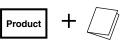
USER'S MANUAL (Product Number:)

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



3-drive · REMOTE





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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 8. 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.

Troub Shoot

Throttle Controller with Remote Control Auto-Cruise

AUTO CRUISE

Increased Handleability and Comfort











NEW

Remote Control

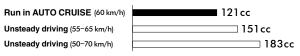
Use switch to remotely control all Auto Cruise operations.



Stable and Safe Remote Control

Utilizes newly designed more stable speed control system.

Comparison of Fuel Consumption



Actual results may vary depending upon the type of car and road conditions.

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

*SOUNT WAGON R (WH235) / Road grade: Upward slope of approx. 1.5 degrees / Running distance: 1.5 km

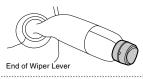
Note: Unsteady driving is obtained by accelerating up and down around the set speed.

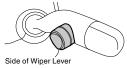
AUTO CRUISE

Cruise automatically at set speed. (30-140 km/h)

Remote Switch

Switch can be installed to the wiper lever, near the shift lever or any other easy to operate position using double-sided tape.









Near Standard Switches

THROTTLE CONTROLLER

Throttle Controller with Response Mode

5/ RESPONSE SPORTS





NEW

RESPONSE MODE NEW

(5 Levels) Increased response to low and mid range acceleration to near that of wired characteristics.

SPORTS MODE

(7 Levels) Increased response across all ranges of acceleration is best for Sports driving.

ECO MODE

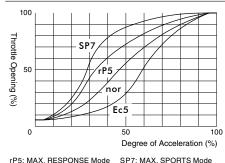
(5 Levels) Reduced response to low and mid range acceleration for eco-driving.

NORMAL MODE Standard performance.

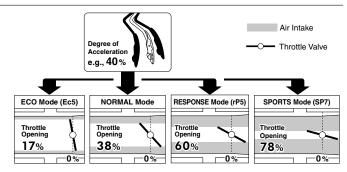
Comparison of Comparison of Fuel Consumption **Acceleration Time** Normal □ 23 sec Normal □ 107cc 20 sec rP7 ■ 117cc SP7 SP7 ■ 157cc Ec5 ■ 29 sec Ec5 ■ 58cc

rP5: MAX. RESPONSE Mode SP7: MAX. SPORTS Mode Ec5: MAX. ECO Mode •HONDA STEP WGN (RG1) / Running distance: 0–400 m / Degree of acceleration: 30%

Examples of Changes in Throttle Opening



rP5: MAX. RESPONSE Mode Ec5: MAX. ECO Mode •SUZUKI WAGON R (MH34S)



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

Installing

Please check the contents of the package



[50×34×14(D) mm]

Cut Connectors

Tapes

(Square) × 2



Unit

[50×22×70(D) mm]



[ø22×12(H) mm]



Cable Clip

Power Cable







Lever Spacer 17, 26, 28, 32 mm



Double-sided

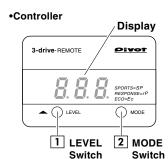


(Thin Circle) x 1



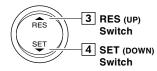


Part Names



No.	AUTO CRUISE OFF	Driving in AUTO CRUISE	Each Settings
1	Adjusting the Change Ratio	Adjusting Level	Initial Setting
2	Change Mode	Deactivating AUTO CRUISE	Speed Pulse Setting Mode setting at restart
3	Resume AUTO CRUISE	Raise speed setting	
4	Set AUTO CRUISE	Lower speed setting	

Remote Switch



Turning off the Display

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.

▲ 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.

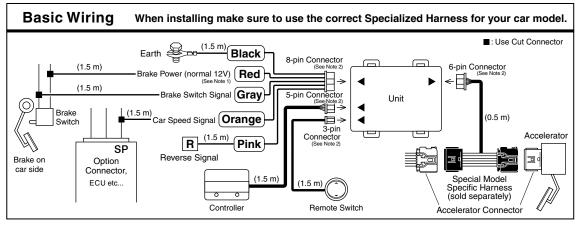
- ·PIVOT Corporation accepts no responsibility, in any manner whatsoever, for damage and/or trouble to your vehicle or product, nor for any accidents that are the result of the misuse of this product.
- ·Please confirm that the type of vehicle you wish to install into is listed in the "List of Specialized Harnesses by Car Model for 3-drive · REMOTE".
- ·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)

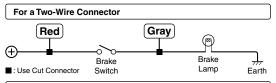
Gray

To Brake Switch Signal



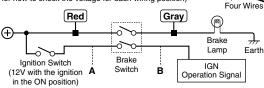
•There may be two or four(or more) wires coming from the brake switch connector. Check the wiring position in the "Wiring Chart" and after testing the voltage, carry out the wiring.

 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, [How to use the Voltage Detector].)

- Turn the ignition to the OFF position. 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".

The Wire color of the product	Not Press Down on Brake Pedal	Press Down on Brake Pedal	
Red	🌦 (12V)	🌞 (12V)	Brake Power
Gray	O (0 V)	🌦 (12V)	Brake Switch Signal

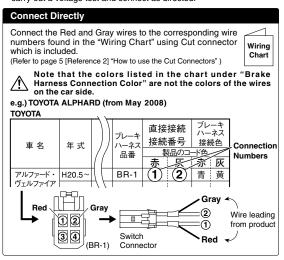
: Voltage Tester Lamp ON O: OFF

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

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.
- 2.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.





Щ

Car Speed Signal

Orange

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

Wiring

(Refer to [Reference 2] "How to use the Cut Connectors" below.)

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

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

Earth

Black with earth 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

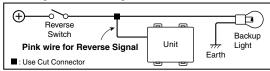
Gear Position

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

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

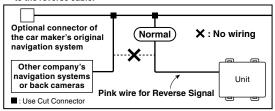
(How to Wire) Cut the black tube of the wire tip and connect referring the diagrams below.

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 or RESPONSE Mode, when the reverse signal is input the display will read bR_c and the unit will switch to NORMAL Mode.

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

Remote Switch

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

Power Cable

8-pin 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)

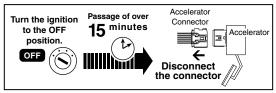
6-pin Connector

Connect to the side of the unit.



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 16, "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.

Wiring for when you wish not use AUTO CRUISE

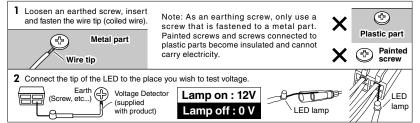
Red Normally 12V (OK for other than brake)

Black Earth

Gray Orange Do not connect to anywhere

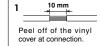
Connect the Remote Switch to the unit.

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



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 2] How to use the Cut Connectors











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



Installing The Product



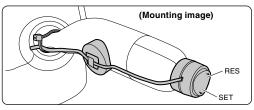
Do not use magnetic holders, such as for a smartphone, to prevent malfunction.



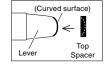
Please be sure to bundle away all wires with tape not to get damaged by any steel plate or screws as this may cause short circuit.

Installing The Remote Switch Install to a place that is easy to operate.

• Fastening to an end of wiper lever



Select a Top Spacer that fits the curve of end of lever.
(A = R12, B = R20, C = R37)



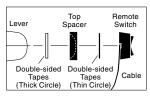
Select a Lever Spacer that fits a curve of side surface of lever.



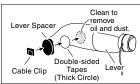
3 Cut off the spacer which selected.



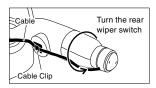
Fix the Remote Switch and the Top Spacer using Double-sided Tape.



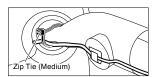
Fix the Lever Spacer and the Cable Clip using Double-sided Tape.



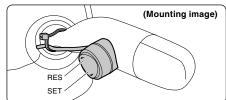
Twist the Rear Wiper Switch to the maximum and fix the cable of the Remote Switch to the Cable Clip.



Fix the Cable to the Lever base using Zip Tie.

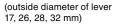


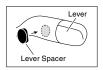
Fastening to a side of wiper lever



Select a Lever Spacer that fits a curve of side surface of lever.

(outside diameter of lever

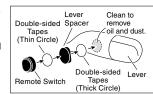




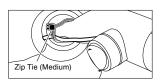
2 Cut off the spacer which selected.

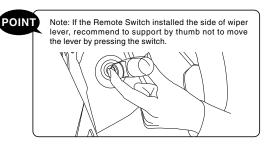


3 Fasten the Lever Spacer and the Remote Switch using Double-sided Tape.

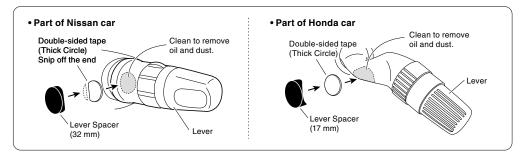


Fix the Cable to the Lever base using Zip Tie.

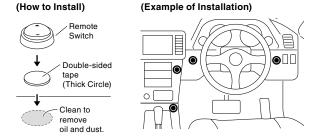




Example of special mounting to the side of wiper lever

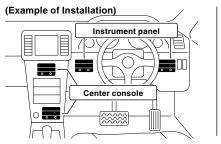


• Fastening to a Flat Place



Installing The Controller

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

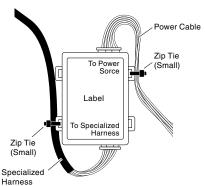


Clean to remove oil and dust. Double-sided tape (Square)

Fastening to a Flat Place

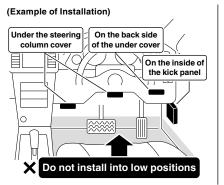
Cable processing of the Unit

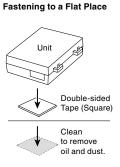
Fasten the cables not to disconnect connectors by getting caught on cables.



Installing The Unit

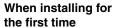
As shown in the diagram below, fasten the unit into positions not usually affected by water.







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





Initial Settings When installing into a different car



- 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"



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.







press down twice (NORMAL Mode)

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

Press the LEVEL switch for 2 10 seconds or longer to change the display to \mathbb{G} .













(Count down from 5 to 0 after the c 8 c blink.)

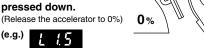
When @ appears release 3 the LEVEL switch.





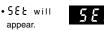
Accelerator pedal is not 4 pressed down.

(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 0%, 5 press the LEVEL 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.)

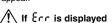
With the accelerator at 100% press the LEVEL switch.

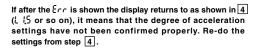




Set to 100%

appear.





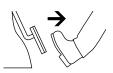
Press down on the accel-8 erator pedal until 100 appears.



Once the display

9 changes to 100 release the accelerator.

! Ĥ Ĥ │ ⇒ │



10 Setting Completed

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

nor

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

Check the Settings

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





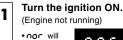
Note: Depending on characteristics of the accelerator or on how the accelerator is stepped on the display may read 895 (95%).

procedure 4

appear.

Speed Pulse Settings

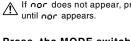
For details about Pulse settings, see the "Wiring







Without braking, press down twice

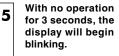










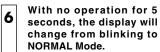


Press the MODE switch to

select the desired pulse

setting. (Change with each pressing)





9-2 ← 918



Setting Completed

Installing The Product

Press the MODE switch for 3 seconds.



•The pulse

appear.

number will

3





If nor does not appear, press the MODE switch



4

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.

Mode Settings for when Restarting the Engine

Mode and change ratio at the restart

The mode at the start of the engine is selectable of "Previous use mode" or "Normal mode".



Previous use mode of change ratio

3



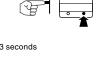
NORMAL Mode











Release the MODE switch when current setting is displayed



Display current setting

(Factory Setting = NORMAL Mode)

4 Changes by each pressing the **MODE** switch





With no operation for 5 seconds, the display will display current mode

Setting Completed

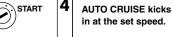
Test Drive

After having carried out all of the necessary wiring and making settings in "Initial Settings" and "Speed Pulse Settings" please carry out a low-speed test run.

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 Start.









Poor connection of Gray wire. See page 4. Improper wiring of Pink wire. See page 5.



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



or settings. X If Rcc does not appear,

There is no problems with wiring

O If Rcc appears,

5

• If --- appears,

The pulse setting is incorrect. See page 9. Improper wiring of Orange wire. See page 5.

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

The "Initial Settings" are incorrect. See page 8.





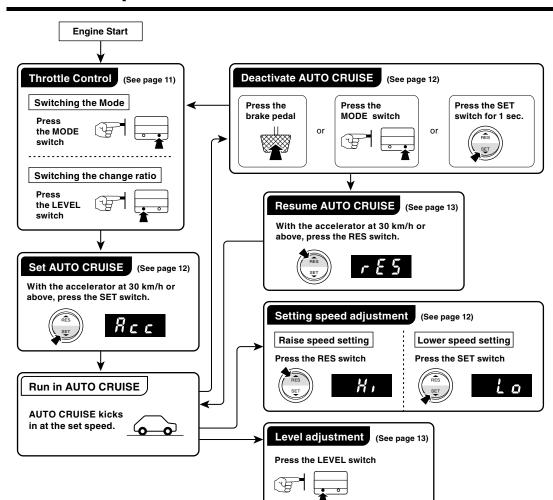




Check the items to the right.

• Press the brake pedal. • Press the MODE switch. • Press the SET switch for 1 second.

Basic Operation



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. Monitor will display more than 15%.

Degree of Acceleration (output) 20%



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.

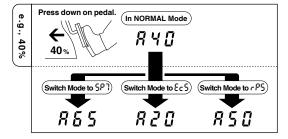


USE 2 Check acceleration during regular driving

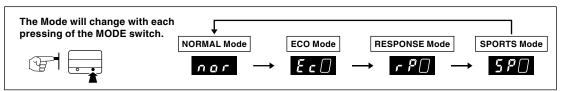
Please use to check the degree of acceleration for any type of driving, not just ECO Mode.

USE 3 Check control status

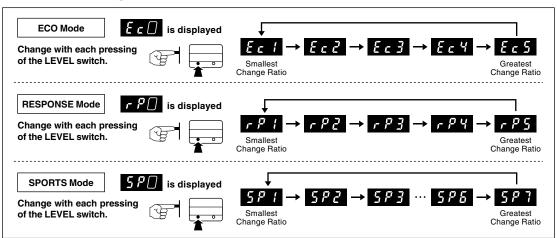
With the ignition in the ON position and under NORMAL Mode press in the pedal until it reaches 40% (R \pm 0), if the Mode is changed to 5 ρ 7 the display should read 65% (R \pm 5), if placed in ϵ 95 the display should change to 50% (R \pm 6) and if placed in \pm 65 the display should change to 20% (R \pm 0). Note: The actual display may differ slightly.

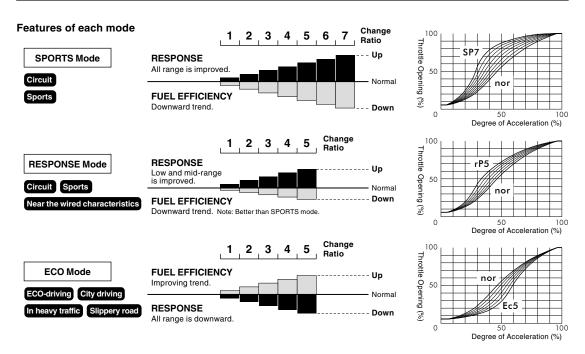


Switch the Mode



Switch the Change Ratio





Even if the mode is switched the respective change ratio settings will not be changed.

For more details about the modes for when restarting the engine see Page 9 [Mode Settings for when Restarting the Engine].

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.

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.



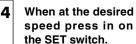
Set



START

Mode Display.

Start Running. 3 (30km/h or above)



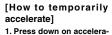
ⴷ When setting make sure not to quickly depress the accelerator.

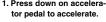
Note 1: Please try to set when there is as little change in speed as possible.

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

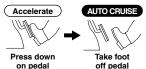
5 AUTO CRUISE kicks in at the set speed

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





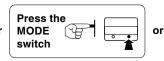
2. By taking foot off the pedal will return to AUTO CRUISE speed as in 5



Deactivate

AUTO CRUISE can be deactivated using any of the following:





Press the **SET** switch for 1 second



This deactivates AUTO CRUISE and returns to the throttle controller

Change the Speed Setting

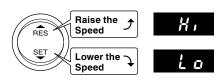
Use the following methods to change the speed setting while driving in AUTO CRUISE.

Change Speed Setting by Pressing RES/SET Switch

Rec

(While Running in AUTO CRUISE Mode)

- \bullet Press the RES switch. \Rightarrow H $_{\rm I}$ appears and the setting can be raised.
- Press the SET 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

Press down until you reach the desired speed (when raise the speed)

beep...beep, beep, beep

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

Note: Deactivate AUTO CRUISE by pressing for 1 second when the speed lowered.

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

Deactivate **AUTO CRUISE**







 ← E 5 appears for 5 seconds and then changes to 8cc.



The car will automatically accelerate 5 (or decelerate) to the previously set speed and run on AUTO CRUISE.

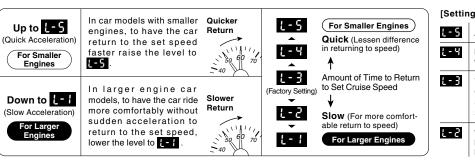


Note: For safety purposes, if after deactivation of AUTO CRUISE, the car runs at 10 km/h or less (meter shows 15 km/h or less) the speed setting will be reset to 0 and AUTO CRUISE will not resume.

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)







High Level

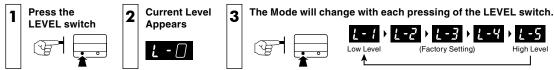
Operating switches or checking the display while driving may cause accidents; please use with the utmost

[Making the Settings]

consideration for safety.



(While Running in AUTO CRUISE Mode)



Speed Pulse 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, or poor connection of Remote Switch.	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 to the OFF position.	Re-connect the disconnected connector and turn off the Check Engine Light. (See page 16 of this manual)
<i>¬</i> , — <i>¬</i> ,	The "Initial Settings" have not been properly carried out.	Make the "Initial Settings" (See page 8 of this manual) and turn off the Check Engine Light (See page 16).
	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 8 of this manual) and turn off the Check Engine Light (See page 16).
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 8 of this manual)
The ignition has been turned to the OFF position but the display remain on.	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 OFF; this is normal.	

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 8 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 or RESPONSE Mode, when put into reverse the	The Pink wire may have been improperly wired or there is a poor connection.	Please reconfirm whether wiring and connections are correct or not.
display does not show δ R c. × b R c	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)
~ unc	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

Trouble	Possible Causes	Possible S	olutions
-გ- appears in display and AUTO CRUISE will	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 brake lamp bulbs.	
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 setting range.	
not operate.	The setting is outside the allowable range.		
	"Speed Pulse Settings" have not been properly carried out.	Make the "Speed Pulse Settings" . (See page 9 of this manual)	
The display does not change even when the SET switch is pressed and AUTO CRUISE will not operate.	The "Initial Settings" have not been properly carried out.	Make the "Initial Settings" . (See page 8 of this manual)
AUTO CRUISE is automatically deactivated and the display switches to throttle controller.	The Gray wire may have been improperly wired or there is a poor connection.	Please reconfirm whether wiring and connections are correct or not.	Note: To use AUTO CRUISE again, first turn the ignition to the OFF position and after you have made sure
switches to throttle controller.	The Orange and Pink wires may have been improperly wired or there is a poor connection.	are correct or not.	
	The "Initial Settings" have not been properly carried out.	Make the "Initial Settings" . (See page 8 of this manual)	that the display has gone off, start the engine again.
	It will be automatically deactivated when speed drops to 15 kg	km/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 L - 1).	Carry out "Adjusting AUTO CRUISE Level" . (See page 13 of this manual)	
It feels like to return to the AUTO CRUISE speed is too quick and jumpy.	The AUTO CRUISE Level has been adjusted to a higher level (highest is L-5).		

Speed Pulse Settings

Display Items

Display Items

Display	Details
5P1-5P7	SPORTS Mode (higher number = higher response)
rp1-rp5	Response Mode (higher number = higher response)
Ec 1 - Ec 5	ECO Mode (higher number = lower response)
nor	NORMAL (Normal Performance)
$R \square \square$	Degree of Acceleration
Rec	AUTO CRUISE in Operation
H I/Lo	Raise and lower AUTO CRUISE speed setting
r E 5	Resuming AUTO CRUISE
ЬЯс	Reverse (when in SPORTS or RESPONSE Mode only)
	Cancel AUTO CRUISE (car speed)
<u>- P - </u>	Cancel AUTO CRUISE (brake)

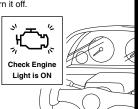
Display for Settings

Display	Details
c Ar	Initial Settings Mode
	Position when accelerator is not pressed down
$H \square \square$	Position when accelerator is fully pressed down
5 E Ł	Settings Completed
PL5	Speed Pulse Setting Mode
<i>P</i>	Speed Pulse Number
<u>L</u> - []	Adjust AUTO CRUISE Level

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.



(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.