



## FITTING INSTRUCTIONS

For

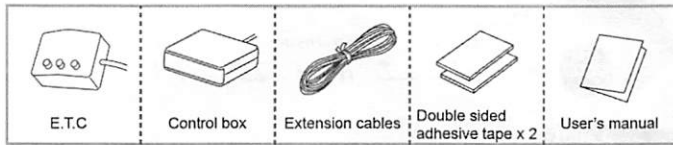
**Throttle Gain Controllers**



# Electronic Throttle Controller

## CONTENTS

(the following pictures may be different from reality and they are only for reference)



- In transferring the product to others, please always attach with the user's manual.

## CHARACTERISTICS

- 3 modes, power mode 11 steps, 7 steps ECO and normal mode. 19 steps for setting.
- Added anti-theft function to lock the throttle.
- Added brake priority function; when brake pressed, sending empty throttle signal automatically
- Redesign IC board to upgrade noise immunity. To deliver stable output signal and shorten conveying time.
- With Reversing circuit design makes the throttle return to the original factory mode under reversing condition.
- With Power interruption memory function, setting will be memorized automatically. No need to reset when engine re-started.

## IMPORTANT NOTICE

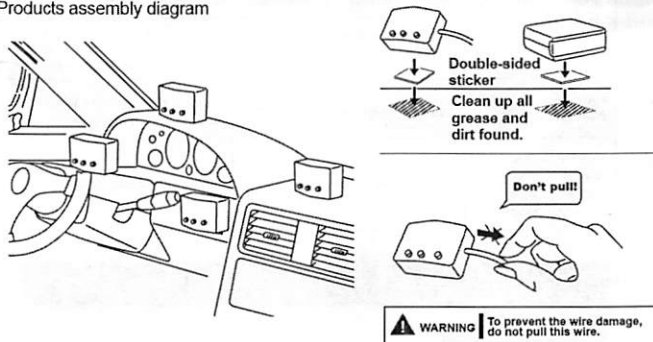


Please read all the instruction to make installation run smoothly

- Must run the initial setup after first installation, please make sure the engine is off and gear is in "P" or "N" position while running setup.
- The defect or damage is arising from misuse, mishandling, accidental lost, abuse, accident, negligence and damage caused directly or indirectly by Customer, including but not limited to improper testing, installation, alteration or modification of any kind, or spillage of food or liquid, or build up of dirt or dust, or mains supply problem, thunderstorm activities, or infestation by insects or vermin, or exposure to abnormally corrosive conditions, or operation with extreme heat or humidity.
- Never work in a poor air ventilation space. It may cause carbon monoxide poisoned, explosion and accident.
- Please unscrew the negative pole connection of the battery before installation to prevent the part damaged or flame caused by short circuit.
- Don't scratch the coat of cables. Cable with broken coat might cause flame because of bad connection or short circuit.
- Organize the wire after installation. If wire falls scattered while driving may cause dangar event.
- Never operate while driving. Concentrate your mind while driving will keep you safe.
- Professional knowledge is required, please consign Shadow Edrive to technician nearest you for help if any question about installing or wiring.
- For DC12V vehicle only.
- Make sure the wire is connected well. If wire welded is necessary, please seal the welded joint with insulating tape and make sure there is no metal core of wire exposed.
- Do NOT disassemble the product, or modify any of the components as it will void your warranty.
- Please don't install this product in humidity environment with high temperature because of failure running.
- Fragile! Hand with care. Hold the body few seconds after double-side tape pasted and make sure the body is fixed firmly.

## INSTALLATION INSTRUCTION

Products assembly diagram



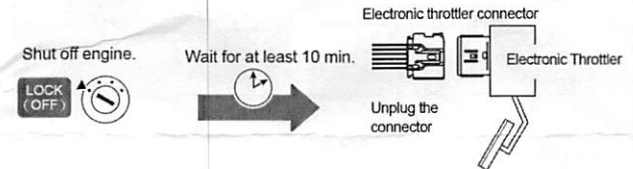
### Installation

Choose the position where you want to install the E.T.C. Please confirm that the driver's sight will not be hindered especially when installing multiple sets of products at the same time. Pull the electric wires along the route of shortest distance to the planned installation position of the E.T.C.

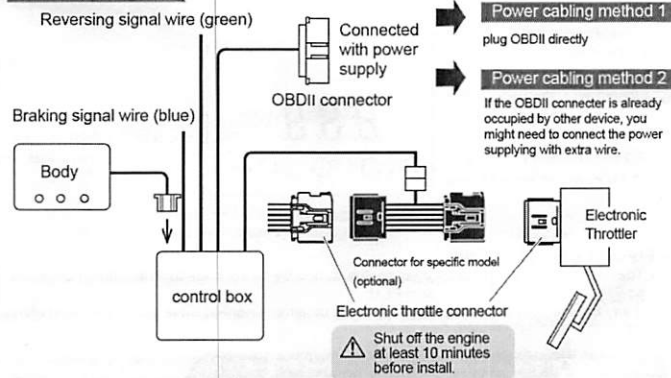
## HARNESS

### Preparation of installation

Shut off the engine at least 10 minutes. Practically follow the above started method to prevent engine check light lighted up. (Pleaser refer to the troubleshooting of engine check light lighted up)

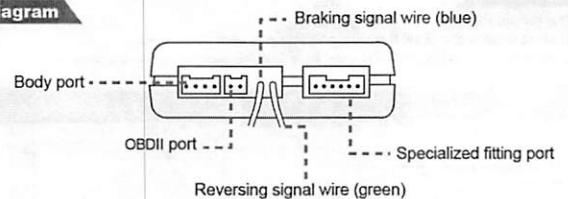


### Basic cabling



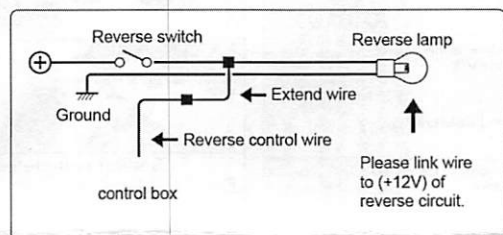
Notice: please tie up wires, otherwise it might cause danger as wire falling while driving.

### Port Diagram

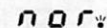


### Reversing signal wire cabling

It's optional to equip with the reverse circuit cabling which is for throttle back to factory default while driving in reverse.



### Cabling check

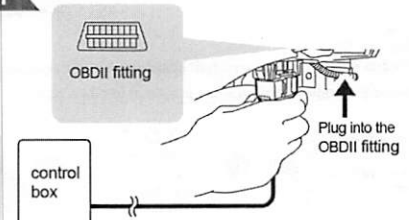


Please shift gear in reverse to check if the red dot is on which means the cabling is completed.

### Power cabling method 1

Turn off the battery switch and plug the OBDII fitting directly.

**Caution**  
pull the wire instead of fitting for release the harness

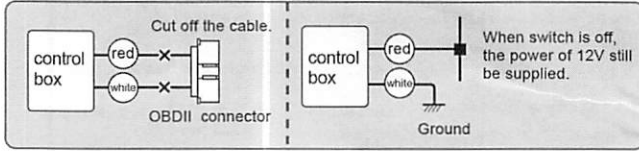


# Electronic Throttle Controller

INSTRUCTION MANUAL

## Power cabling method 2

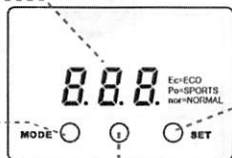
Please cut both red & white wire of the OBDII harness, red wire is for positive current input, white is negative output.



## SETUP

### The component of E.T.C description

- ① Display segment
- Current mode
  - Throttle opening percentage (10%~100%)
  - Initial setup displayed
- ② MODE button
- For mode shift and initial setup
- ③ SET button
- For step shift in each mode
- ④ Anti-theft setting button
- Anti-theft set on/off



### Product shut-down time

- The monitor will be lighted off after engine turned off 10 seconds to 5 minutes because its power supply is synchronous with ECU.
- If any throttle opening percentage shown on monitor is normal while the E-drive is shutting off.

### Learning mode setting (Throttle opening setup)

- Please be sure to set first after installation. No need to set anymore after completion.
- To learn the correct throttle signal.
- No use if the product without learning setting.

### Initial setup instruction

- The preparation before learning setting.
1. Must double check all the wire and fitting is connected well.
  2. Turn the switch on, shift the gear to "P" or "N" position while the engine is off.

Step	Codes (shown on monitor)	Step	Codes (shown on monitor)
① Turn the battery switch on. (The engine must be off)	<i>nor</i> Display nor	⑥ Fully stepping on the pedal so the E-drive can learn the throttle opening percentage is 100%.	(ex) <i>H46</i> flashing Display throttle volt (ex. H 4.6)
② Hold "Mode" button till the code becomes "0"	<i>7.6...1.0</i> The figure starts to count back from 7.6,5...1.0 after displaying ---	⑦ Keep fully stepping on pedal and press the "Set" button	<i>SEt</i> Display SET <i>100</i> Display 100
③ Release the "Mode" button to start the mode shift.	(ex) <i>L 1.6</i> flashing Display throttle volt (ex. L 1.6)	⑧ Keep fully stepping on pedal and hold the button till the code turned into "100". Release the pedal to finish the setting.	<i>100</i> Display 100 <i>nor</i> Display nor
④ Do not step on pedal so the E-drive can learn the throttle opening percentage is 0%	(ex) <i>L 1.6</i> flashing Display throttle volt (ex. L 1.6)	<b>Setting completed!</b> Please be sure to reset when installing in other cars.	
⑤ Press SET key	<i>SEt</i> Display SET	If code is turned into <i>Err</i> in installation step ⑦, the procedure will jump to step ③ automatically, please re-set the throttle opening percentage.	
		Please re-run the initial setup if the code shown on monitor.	
		When press the "Mode" button to run the mode or step shift.	<i>Err</i> "Err" displayed <i>nor</i> "Nor" remained

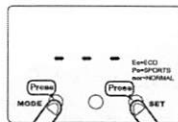
The above figures are for example only; various cars may show different voltage.

### Reset

- Please reset the machine when installing in other vehicle.
- Avoid the engine light on while installing in other vehicle.

① Turn the battery switch on. (The engine must be off)

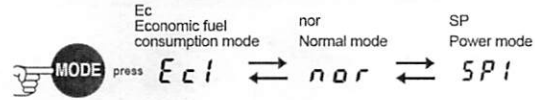
*nor*  
Display nor  
Only under nor mode, the setting is possible.



Press MODE & SET button until display ---. Show --- represents reset ok.

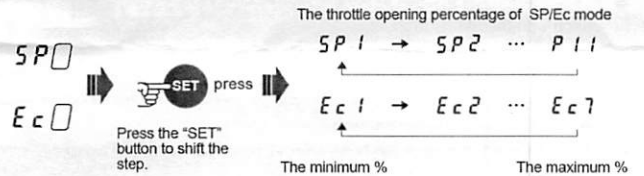
## Mode shift

Press "Mode" button to shift the mode.

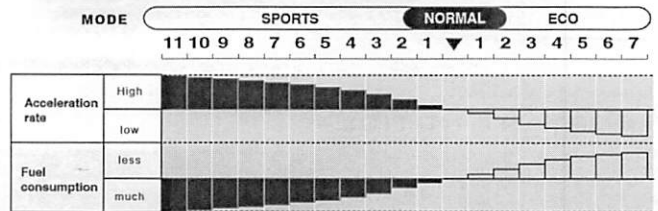


## Step shift

The step shifted under "Ec" and "SP" mode.



## Acceleration and fuel consumption of each step



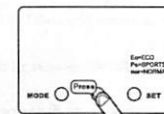
For your safety, the throttle runs with SPROTS mode is very sensitive, please notice the way to step on pedal if driver changed or driving in reverse.

## Set Anti-theft function

- Start anti-theft function.

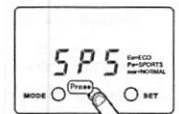


1. Under any mode, please press anti-theft setting button for 2 seconds until display SEC.



2. Display off shows anti-theft set successfully then release the button.

- Anti-theft function off



Engine start, press the anti-theft button for 2 seconds until show the previous mode means anti-theft mode off.

## Troubleshooting

Please verify if any event occurs as below when the E-drive doesn't work.

Symptom	Cause	Trouble shooting
No reaction when battery switch is on.	OBDII fitting is bad connected. Fitting is bad connected when taking cabling method 2.	Please check each fitting is connected well.
Engine check light is on	Unplug the fitting of OBDII before battery switch shut off completely.	Please turn engine off, wait for 30 seconds and re-start engine up.
	No learning setting after installation.	Please follow the learning set to configure the opening of throttle, then to eliminate engine light.
Show "Err" under learning mode.	Wrong setting way	Please follow the learning set to set the opening of throttle.
"Err" shown and the "Nor" mode remained when pressing "Mode"	Incorrect learning setting.	Please reconfigure learning setting.

Please return all the accessory with body and harness for repair.

Notes:

Reset engine check light

IF the engine check light is on because of incorrect installation and instruction, please try the instruction as below:

1. Please turn off engine and wait for few minutes then start engine up, the light will be off.
2. If first solution is failed, please release the negative pole of battery and wait for 10 minutes then connect the pole.
3. If both two methods are failed, please use the OBDII scanner (reader) to diagnosis.