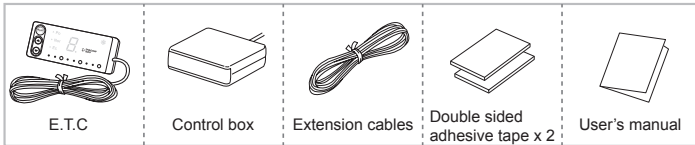


E-Drive Advance 4

INSTRUCTION MANUAL

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

- Add starting anti-skid function. Even in the low friction terrain you can easily start your car.
- Add Drag Racing launch control function, instantly improve your car's performance
- Add anti-theft function, no matter how the thief presses the accelerator, your car does not move
- Add braking Prior function: when you hit the brake, the device sending 0% accelerating signal automatically
- Adapting DAC digital signal output, providing 1000 times/sec processing speed
- With 3 built-in high speed processors, drastically raises the purity and the stability of the signal
- Po power mode (9 levels): Suitable for mountain road and competition use, the accelerator responses very quickly
- Ec energy saving mode (7 levels): Suitable for city driving, can effectively lower the fuel consumption.
- By using the special installation wires for each model of car, the installation can be finished easily and quickly

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 danger 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.

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)

Shut off engine.



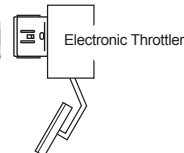
Wait for at least 10 min.



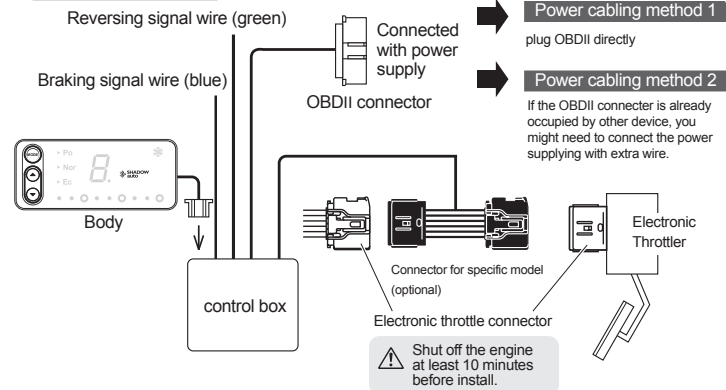
Electronic throttle connector



Unplug the connector

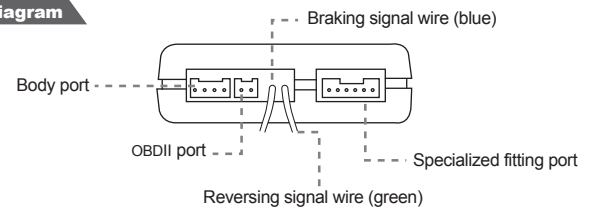


Basic cabling



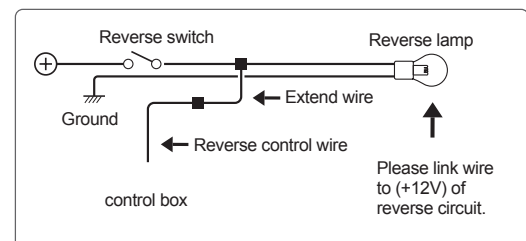
Notice: please tie up wires, otherwise it might cause danger as wire falling while driving.

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

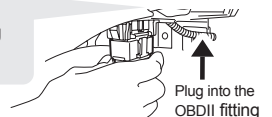


Please put into "R" gear to confirm the display end. The installation is finished when the decimal point light turn on at the lower right corner.

Power cabling method 1

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

OBDII fitting



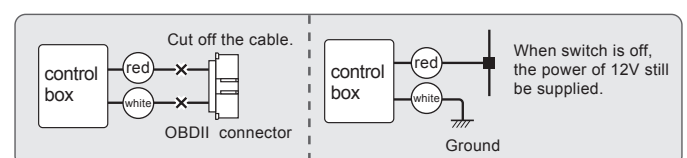
Caution

pull the wire instead of fitting for release the harness



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.



E-Drive Advance

INSTRUCTION MANUAL

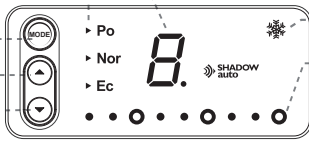
SETUP

The component of E.T.C description

- ② Display
- Display current mode
- Display current level

① Setup Buttons

- Mode switch button
- Level up adjusting button
- Level down adjusting button



- Starting anti-skid engaging light
- Throttle position indicating light, the longer the light, and higher the percentage of throttle

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	Code (shown on monitor)
Turn the battery switch on. (The engine must be off)	Display 0
①	Only under nor mode, the setting is possible.
Hold "Mode" button till the code becomes "0"	7 6 5 4 3 2 1 0
②	The figure starts to count back from 7,6,5...1,0 after displaying.
Release the "Mode" button to start the mode shift.	(ex) L
③	Letter "L" light is blinking. The last battery indicating light is blinking.
Do not step on pedal so the E-drive can learn the throttle opening percentage is 0%	(ex) L
④	Letter "L" light is blinking. The last battery indicating light is blinking.
Press any functional MODE button, Press \odot or \ominus can do	(ex) H
⑤	Letter "H" light is word blinking. All battery indicating light are all blinking.

Step	Code (shown on monitor)
Fully stepping on the pedal so the E-drive can learn the throttle opening percentage is 100%.	(ex) H
⑥	Letter "H" light is word blinking. All battery indicating light are all blinking.
Press any functional MODE button, Press \odot or \ominus button can do when accelerating	(ex) 0
⑦	Battery indicating lights are full.
When the battery indicating light shows full, the setup is completed. Please release the accelerator	(ex) 0
⑧	When releasing the accelerator, battery indicating light will fall back to disappear.
Setting completed!	
Please be sure to reset when installing in other cars.	
Please re-run the initial setup if the code shown on monitor.	
When press the "Mode" button to run the mode or step shift.	flashing
	Nor
	"Nor" remained

If there is \odot blinking and then automatically back to "1". Please set the throttle opening percentage correctly.

Acceleration and fuel consumption of each step

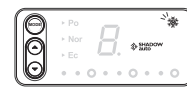
		MODE																	
		POWER									NORMAL			ECO					
		9	8	7	6	5	4	3	2	1	▼	1	2	3	4	5	6	7	
Acceleration rate	High	■	■	■	■	■	■	■	■	■	■								
	low											■	■	■	■	■	■	■	
Fuel consumption	less												■	■	■	■	■	■	
	much	■	■	■	■	■	■	■	■	■	■								



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.

Starting Anti-skid function setup

- A. Turn on the starting Anti-skid mode



- B. Turn off the starting Anti-skid mode



1. Under any mode or level, press UP and Down at the same time.

2. When the functioning light at the upper right corner lights up, and the number light turns off, it is entering the Anti-skid mode.

Press any button will turn off the Anti-skid mode immediately

A. Anti-theft function setup

- Start anti-theft function



1. Under ECO mode, long press Mode button and wait for 2 seconds

2. Wait till the lights on the panel all turn off, and then it is entering the anti-theft mode. Under this mode, starting engine or pressing the accelerator will have no response. The vehicle is completely shut down.

- B. Turn off anti-theft function



When the engine is starting, press anti-theft button and wait for 2 seconds until shows the previous mode. And the anti-theft mode turns off

Launch control function setup

- A. Turn on launch control mode



1. Under Power mode, long press Mode button and wait for 2 seconds

2. When "Po" light and "number" light blink at the same time, it is under launch control mode

- B. Turn off the launch control mode



Press any button can immediately stop the launch control mode



Warning: Under launch mode, the accelerator response is very quickly. Please be careful on handling the car. NO switching to (R) backward gear under this mode

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.	OBDD 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 OBDD 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.
Press Mode button, the display shows "0" with blinking, and stays in Nor mode.	Incorrect learning setting.	Please reconfigure learning setting.

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

Notes:

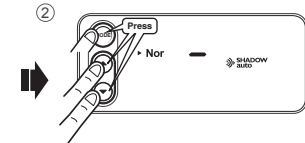
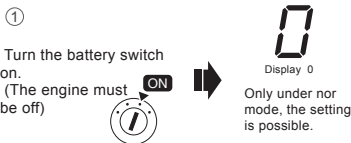
Reset engine check light

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 OBDD scanner (reader) to diagnosis.

Reset

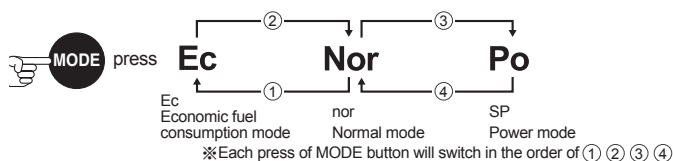
- Please reset the machine when installing in other vehicle.
- Avoid the engine light on while installing in other vehicle.



1. Hold the Mode button. While it is counting down, hold "up" and "down" buttons at the same time. Wait for 2 seconds till the monitor shows "-", and it means resetting to zero success.
2. At this time, pressing Mode button won't switch between each mode, and the monitor will show "0" with blinking.

Mode shift

Press "Mode" button to shift the mode.



Step shift

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

The throttle opening percentage of Po/Ec mode

Po 1	→	Po 2	...	Po 9
Ec 1	→	Ec 2	...	Ec 7
Po 9	→	Po 8	...	Po 1
Ec 7	→	Ec 6	...	Ec 1

