UPGRADE KEYLESS ENGINE START BUTTON SYSTEM

This system could work with any car which had been installed the simple car alarm, engine start module connect with the original car alarm via code learning, when connecting is succeed, then disarm the car, step the brake, press start / stop button, then car engine working: the engine will not working if the car is armed.

Start Module and Alarm Code Matching

"Lock " signal code: When all the wires of start module connected successfully, close the doors, then press the code learning switch of the module, the signal light will keep on a red light for 15 seconds, so before the 15 seconds is finished press the **"Lock"** button on your cars remote, system start learning code of **"Lock"** signal, learning code will not finish until the signal light off.

"Unlock" signal code: when finish the **"Lock"** code learning, then press the code learning switch of module, the signal light will keep on a red light for 15 seconds, so before the 15 seconds is finished press the **"Unlock"** button on your remote, systems start leaning code of **"Unlock"** signal, learning code will finish until the signal light is off.

Remark: A. Press the learning code switch of the module, if signal light keeps a light on that means **"Lock"** code start learning: if signal light keep flashing that means **"Unlock"** code start learning. When finished **"Lock"** and **"Unlock"** code learning, press the **"Unlock"** key, engine start signal light will keep lighting for 20 seconds, then press **"Lock"** key, engine start signal light will off. After that it is not allowed to start the engine until you press the unlock key to disarm the system.

Remark: B. While code earning, if the signal light flashing quickly, that means code learning unsuccessfully, and it will quit code learning automatically, then press the learning code switch again to re-start code learning; the central lock system must unlock while **"Lock"** code learning, with same reason, the central lock system must lock while **"Unlock"** code learning, also **"Lock"** code learning must come first and **"Unlock"** code learning later.

Engine Start Module Function: ACC/ON TURN ON/OFF

Press the **"Unlock"** button to disarm the car, engine start signal light keep lighting for 20 seconds, press start / stop button, the engine will not start unless step the brake at the same time, but the car door power will turn on/off circularly. When first time press the start / stop button, then **ACC** power on, meanwhile blue signal light on, when second time press start / stop button, then **ACC** and **ON** power on, meanwhile signal light turn red, when third time press the engine start button, car door power will **OFF,** meanwhile the signal light off, the red LED light will turn off, in 20 seconds.

Smart Start Engine

A) Press the "Unlock" key to disarm the car, engine start signal light keep lighting for 20 seconds, then step the brake and press start /stop button to start the engine.

Smart Stop Engine

Stop the car, step the brake, press Start / Stop button, then engine cut off, signal light off, in 20 seconds.

Other Functions

A) Press the "Unlock" Key to disarm the car, engine start signal light keep lighting for 20 seconds, After that it will light off, and it unable to start the engine until you press the unlock key again.
B) The engine start / stop will not working while driving unless step the brake.
C) After turn on the ACC / ON power, step the brake, press the start / stop button, then engine start.
D) Central Lock Signal Selection (see wiring diagram)
"Lock" trigger signal choose via JP2 PIN, the default setting is positive.
"Unlock" trigger signal choose via JP1 PIN, the default setting is positive.
E) Press the remote will not activate the start system during driving.

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UPGRADE KEYLESS ENGINE START BUTTON SYSTEM

INSTALLATION

Before installation please make sure all the components or accessories are completed, then make sure the all car electronics parts are in good condition.

Tools for installation:

driller, electrician's knife, electro probe, wire strippers, screw driver, electronic tape, electric drill etc.

MAIN UNIT INSTALLATION

Fit this unit in a hidden place under the panel.

Wire connection: After install the main unit, please connect the wire On1, ON2(air-con), ACC STAR and power wire, ground wire, foot brake wire to the correct position in the car, then bind it by the electrical tape.

ENGINE START / STOP BUTTON INSTALLATION:

There are 2 methods to install the button.

Take off the original ignition lock, replace it by the ne button.

To drill a hole with a diameter of 34mm on the right side of the original ignition lock, then install the button here. (Note: because the 34mm driller is less than the size of the button, after drill the hole, please use the knife to make the hole bigger, make sure the size of the hole is suite for the button)

ATTENTION:

Before button installation, please check if there is any lock in the steering wheel. If it come with wheel lock, please check it is electronic lock or mechanical lock?

How to judge the electronic lock or mechanical Lock? Please turn the steering wheel until cannot move, then give power to **ACC ON,** if the lock is opened, show the lock electronic, an otherwise, the lock is mechanical.

If the steering wheel with electronic lock, you can install the engine start button directly.

You have to take off the technical lock before installation, otherwise the steering wheel will be lock when use the button.

AFTER INSTALLION:

Please check all wires are well connected.

After installation, please check all the car functions are workable or not.

Technical Data

Working Voltage: DV 9 ~ 15V

Static Current: 7~10Ma

Working Current : ACC/ON/STR output ≥ 30A

Working Temperature: -40◦C ~ +85◦C

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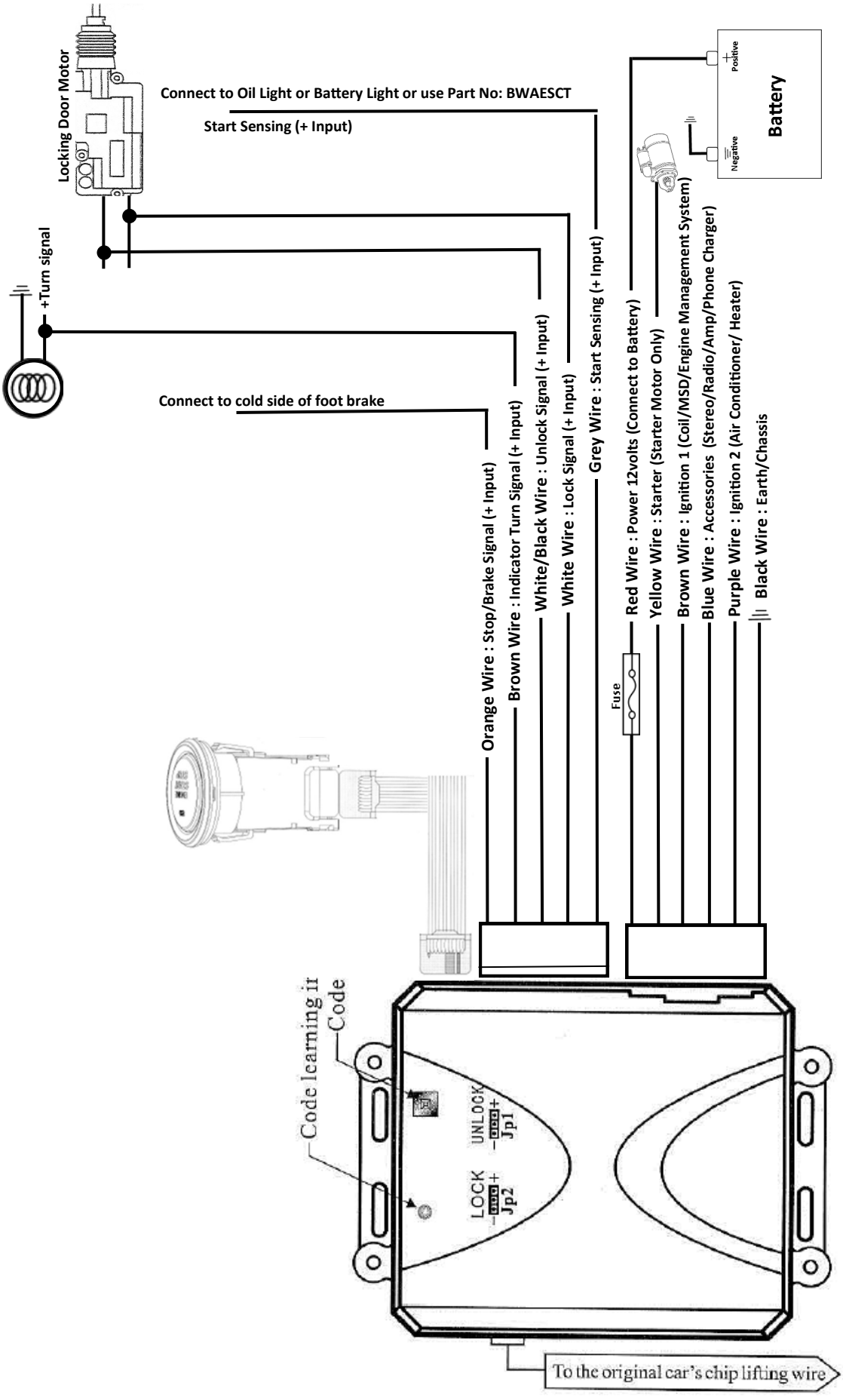

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DIGITAL ENGINE START CRANK TIME SPEED MODULE

Part No: BWAESCT (Not Included)

This system is for cars that don't have an Alternator light or Oil Pressure light to send the signal to the Engine Start Module. The Digital Engine Start Crank Time Speed Module helps with your cranking time with Engine Start Kits to help by giving the Signal to the Engine Start Module to stop engine crank by the time you sett.

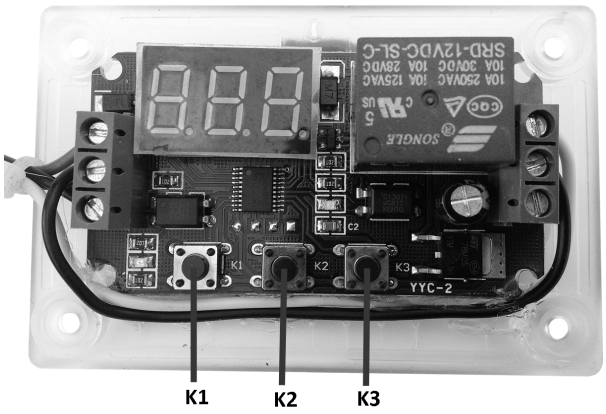
Module Wiring:

Red - 12v Ignition Wire

Black - Neg Battery

Blue - Starter Crank Wire

Yellow - Signal to Engine Start Module



K1—Function Selection Button

K2 K3 Time Adjustment Button

After Power is on:

Press **K1** for 2 seconds to get into the select function mode, P1-1~P1- 4 for choose. P1-1 operating modes: a signal to trigger relay, time is up, the relay disconnect users, You can set relay time

Click **K2** the hundred digital tube starts flashing, then press **K3**, the hundred digital change; click **K2** ten digital tube starts flashing, then press **K3**, ten digit changes; click **K2** bit digital tube starts flashing, then press **K3**, single-digit change; then click **K2**, digital pipe does not blink, then press the **K3**, shifting the decimal point, the decimal point in a bit indicates 0 -999 minutes in ten represents 0 to 99.9 seconds without ta decimal point represents 0—999 seconds; good choice, bringing the time setting is completed.

Short press **K1**, enter function offline-tuning settings, trigger the default delay period is invalid, press **K1**, during the delay trigger active (re-timing), click on the **K1**, during the delay reset *(timer turned off, the relay reset)* press again to repeat the default settings for the first time.

P1-2 operating modes: signal trigger, digital countdown begins seconds after, there lay open Y seconds, then close.

Users can set the relay time X,Y; P1-1 different time settings similar to the blue lights that set the relay time, blue light indicates setting relay off time.

Short press **K1**, enter function offline-tuning the set, the default trigger is invalid during the delay, press **K1**, during the delay trigger active (re-timing), then click the first repeat default settings. P1-3 operating modes: Open X seconds, disconnect Seconds, infinite loop.

Users can set the relay time X,Y; time setting similar to P1-2. Short press **K1,**enter function offline-tuning set, The default function is: set up an electric circuit the relay first open, press the **K1**,there lay first close. Press again to repeat the default functionality.

P1-4 operating modes: a signal to trigger the relay open but do not start the timer, when the trigger signal disappears, digital count down begins time after, the relay close; During the delay, again to the signal, digital count down cancelled, stays energized, the signal disappears, restart count down; (equivalent to release the button to start timing, commonly used in power-off delay).

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