

## **K5OS-CCM PROGRAMMING INSTRUCTIONS 15.2.1**

Many of the features on the K5OS-CCM module can be programmed to your liking. Functions can be turned off or timing altered on certain features.

To program the module, use the following steps.

- 1) Open both driver and passenger door.
- 2) Place smart key fob out of proximity range of vehicle (approx. 2 meters)
- 3) Hold smart button on door handle longer than 3 seconds. Release the button.  
You will hear the car acknowledge and awaiting first digit of code.
- 4) Enter first digit by pressing the smart button quickly corresponding to the number. If digit is "0" do not enter anything and move on to next digit by holding down smart button longer than three seconds.
- 5) After all four digits have been entered; hold smart button on door handle down longer than 3 seconds and the car will acknowledge code by repeating code back to you by number of beeps. If code was accepted you should hear two beeps. If not accepted, you will hear four beeps.
- 6) You can enter multiple codes during programming, meaning one after another. Once you get confirmation of one code then move onto next.
- 7) If you lose track of where you are in the process, just close the door and open it up again to start over.

### **Programming Codes for the K5OS CANBUS Control Module (K5OS-CCM)**

- \* To change the operating code, please make sure that the engine is off and both front drivers and passenger side door are open
- \* Make sure the smart key is more than 2 meters away from the car. Please see "Programming Instructions" on Page 6 for procedure.

#### **\* CODE 1234: Show firmware version**

- No programming features affected with this code.
- You will hear the piezo sound as a firmware version.

#### **\* 0002~0004: Reserved**

#### **\* 0006~0009 : Set low voltage ( Default : 0006 )**

- We cannot guarantee the battery will be fully charged due to a multitude of situations that can arise. This value is a relative voltage to judge if the car battery is low.
- This will not be effective unless the operation code '0100' is ON.
- The last digit of the code is a value to judge of the low voltage.
- Available Code : 0006 ( -0.6V ) ~ 0009 ( Max -0.9V )



- You will hear the piezo sound equal to the code you entered.

For example, the K5OS-CCM will measure the battery voltage when it enters standby mode after installation or reset. The battery voltage measured at this time was 12.6V. If you had entered the code "0006", the engine will be automatically started when the battery voltage is under 12.0V (12.6V - 0.6V = 12.0V). And then the K5OS-CCM will stop the engine after the time you have specified.

**\* 0100: Enable/Disable automatic engine start if low voltage ( Default: OFF)**

- Switch between ON and OFF whenever you enter this code.
- You will hear the piezo sound '2100' if ON, and '4100' if OFF.
- We do not guarantee that the battery will be fully charged because there are too many situations that can affect total battery charge.

**\* 0102 ~ 0115: Set amount of time after you initiate remote start that engine shuts off (Default: 5 minutes, Available: 2 ~ 15 minutes)**

- This time refers to the amount of minutes you have from Remote start till you step on the brake pedal and turn control over to vehicle. If the time is exceeded than the engine will shut off. The last two digits of the code is the amount of minutes.
  - Available Code : 0102 (Min 2 minutes) ~ 0115 (Max 15 minutes)
  - You will hear the piezo sound equal to the code you entered.

**\* 0120 ~ 0130 : For Version Firmware 15.2.1 ONLY**

- Same as code 0006~0009 but you are setting the voltage based on interval from 12.0V to 13.0 V

**\* 0152: Enable/Disable "Easy Start" (Default: OFF)**

- Switch between ON and OFF whenever you enter this code.
  - You will hear the piezo sound '2152' if ON, and '4152' if OFF.
  - ON : The engine will be automatically be started if you step on the brake pedal

**\* 0155: Enable/Disable "Emergency Driving" (Default: OFF)**

- Switch between ON and OFF whenever you enter this code. - You will hear the piezo sound '2155' if ON, and '4155' if OFF. - ON This will enable you to drive the car without the smart key.
  - All electronic hardware (navigation, audio, ...) connected to the ACC power will not work because the module will not supply ACC power while emergency driving.
- The K5OS-CCM is basically taking control of the engine. Some normal operating features are not in use so please drive at a slower speed.

**Warning!!**

**We do not assume any responsibility for any accidents that occur during emergency driving.**

To start an emergency driving, see the procedure below.

1. Open the driver's door using the password when all doors are locked.



2. Open the driver's door only, enter the password again. When you finish entering the correct password, the piezo buzzer will sound three times.

3. Close the driver's door.

4. After a few moments the engine will start.

5. Open the door and step on the brake pedal within 30 seconds.

6. To indicate emergency driving mode is ready the lights, heating (or air conditioning) will turn off for 1 second and then turn on.

**OPERATING CODE** To stop an emergency driving, see the procedure below.

1. Parking.

2. Exit the vehicle.

3. Close all doors and trunk.

4. Push the "Smart Button" longer than three seconds and release the button.

5. The engine will stop after the piezo buzzer sound 3 times..

**\* 0201 ~ 0224: Set interval to monitor the low voltage (Default: 1 hour, Available: 1 ~ 24 hours)**

- Time interval to monitor the car battery's voltage.
- It will be effective only if the automatic engine start operation '0100' is ON. - The last two digits of the code are the time. (Unit: hour)
- Available Code : 0201 (Min 1 hour) ~ 0224 (Max 24 hours)
- You will hear the piezo sound equal to the code you entered.

**\* 0245: Set forced off lights (Default: OFF)**

- Switch between ON and OFF whenever you enter this code.
- You will hear the piezo sound '2245' if ON, and '4245' if OFF.
- If ON, the lights will be turned off in all situations. To do this, the module will unlock the door and then lock.

**\* 0304 ~ 0315: Set time to charge the battery (Default: 5 minutes)**

- Time interval for battery charge if low voltage occurs.
- It will be effective only if the automatic engine start operation '0100' is ON. - The last two digits of the code are the time. (Unit: minute)
- Available Code : 0304 (Min 4 minutes) ~ 0315 (Max 15 minutes)
- You will hear the piezo sound equal to the code you entered.

**\* 0333: Enable/Disable the hazard lamp while Stop & Go and Safe Turbo (Default: ON)**



- Switch between ON and OFF whenever you enter this code.
- You will hear the piezo sound '2333' if ON, and '4333' if OFF.
- OFF: The module does not turn on the hazard lamp while Stop & Go and Safe Turbo.

**\* 0351: Enable/Disable automatic sunroof closer (Default: ON)**

- Switch between ON and OFF whenever you enter this code.
  - You will hear the piezo sound '2351' if ON, and '4351' if OFF.
  - ON: The module will close the sunroof when you open the driver door after the engine is stopped.

**\* 0354: Enable/Disable automatic blind opener when engine is started (Default: OFF)**

- Switch between ON and OFF whenever you enter this code.
- You will hear the piezo sound '2354' if ON, and '4354' if OFF.
- Only available for vehicles equipped with this feature.
- ON: The module will open the blind of the sunroof when you start the engine.

**\* 0400: Disable / Enable the window control (Default: OFF)**

- Switch between ON and OFF whenever you enter this code. - You will hear the piezo sound '2400' if ON, and '4400' if OFF. - ON: All functions to control the windows will be disabled.

**\* 0403 ~ 0410: Set time interval for remote start of engine (Default: 8 seconds, Available: 4 ~ 12 seconds)**

- **Warning!! Do not set if you are not an expert.**
- The last two digits of the code is a time. (Unit: second)
- Available Code : 0404 (Min 4 seconds) ~ 0412 (Max 12 seconds)
- You will hear the piezo sound equal to the code you entered.

**\* 0421: Enable/Disable Memory Seat Compatibility**

- Switch between ON and OFF whenever you enter this code.
- You will hear the piezo sound '2421' if ON, and '4421' if OFF.
- Do not set this operating code to ON unless there is the memory seat control function.
- ON: The automatic door lock function will be run only when the smart key goes out through the driver door.

**\* 0424: Enable/Disable automatic lock (Default: ON)**

- Switch between ON and OFF whenever you enter this code.
- You will hear the piezo sound '2424' if ON, and '4424' if OFF.
- OFF: The module will not automatically lock the door.

**\* 0431: Enable/Disable automatic outside mirror folding control (Default: ON)**

- Switch between ON and OFF whenever you enter this code.
  - If you enter the code '0431', you will hear the piezo sound '2431' if ON, and '4431' if OFF.

**\* 0432: Enable/Disable automatic outside mirror unfolding control (Default: ON)**

- Switch between ON and OFF whenever you enter this code.
- If you enter the code '0432', you will hear the piezo sound '2432' if ON, and '4432' if OFF.



**\* 0435: Switch key combination to control the sunroof (Default: OFF)**

- Switch between ON and OFF whenever you enter this code.
  - You will hear the piezo sound '2435' if ON, and '4435' if OFF.
  - OFF: LOCK-UNLOCK-LOCK for tilt open the sunroof, LOCK-UNLOCK-UNLOCK-LOCK for slide open.
- ON: LOCK-UNLOCK-LOCK for slide open the sunroof, LOCK-UNLOCK-UNLOCK-LOCK for tilt open.

**\* 0451: Disable / Enable the sunroof control (Default: OFF)**

- Switch between ON and OFF whenever you enter this code.
- You will hear the piezo sound '2451' if ON, and '4451' if OFF.
- ON: All functions to control the sunroof will be disabled.

**\* 0501 ~ 0515 : Set waiting time for "Stop & Go" ( Default : 5 minutes )**

- Set the time interval to stop the engine once "Stop & Go" is activated.
- The last two digits of the code are the time. ( unit : minute )
  - Available Code : 0501 (Min 1 minute) ~ 0515 (Max 15 minutes)
  - You will hear the piezo sound equal to the code you entered.

**\* 0524: Enable/Disable the shock sensor monitoring (Default: OFF)**

- Switch between ON and OFF whenever you enter this code.
- You will hear the piezo sound '2524' if ON, and '4524' if OFF.
- It will not be effective unless you connect the shock sensor output (GND) to the K5OS-CCM.

**\* 0532: Enable/Disable using the fog lamp by shock sensor (Default: OFF – High Beam)**

- Switch between ON and OFF whenever you enter this code.
- You will hear the piezo sound '2532' if ON, and '4532' if OFF.
- It will be effective only if the shock sensor monitoring operation '0524' is ON.
- It will not be effective unless you connect the shock sensor output (GND) to the K5OS-CCM.

**\* 0541: Enable/Disable the hazard lamp while reversing (Default: ON)**

- Switch between ON and OFF whenever you enter this code.
- You will hear the piezo sound '2541' if ON, and '4541' if OFF.

**\* 0544: Enable/Disable "Stop & Go" and "Safe Turbo" (Default: ON)**

- Switch between ON and OFF whenever you enter this code.
- You will hear the piezo sound '2544' if ON, and '4544' if OFF. - OFF: You can't use the "Stop & Go" and "Safe Turbo" features.

**\* 0563: Enable/Disable the window and/or sunroof closer for "Stop & Go" (Default: OFF)**



- Switch between ON and OFF whenever you enter this code.
- You will hear the piezo sound '2544' if ON, and '4544' if OFF.
- ON: The module will close all windows and/or sunroof after stopping the engine if you use the "Stop & Go" feature.

**\* 0601 ~ 0605: Set the time for "Safe Turbo" (Default: 2 minutes)**

- Set the time interval to stop the engine once "Safe Turbo" is activated.
  - The last digit of the code is the time. 0601 ( Min 1 minute ) ~ 0605 ( Max 5 minutes )
- You will hear the piezo sound equal to the code you entered.

**\* 0622: Switch between "Stop & Go" and "Safe Turbo" (Default: OFF)**

- Switch between ON and OFF whenever you enter this code.
- You will hear the piezo sound '2622' if ON, and '4622' if OFF.
- OFF: Briefly press the "Smart Button" for "Stop & Go", long click for "Safe Turbo". If ON, vice versa.

**\* 0625: Set only for the car that is turned on the VDC warning lamp if you step on the brake after remote start.**

- Switch between ON and OFF whenever you enter this code. - You will hear the piezo sound '2625' if ON, and '4625' if OFF.

**\* 0700: Show Battery Voltage**

- You will hear the voltage of the car battery as the piezo sound.
- There will be difference between the actual voltage and the measured because the electric modules on the car are still working.

**\* 0715 ~ 0730: Set the time to turn on the high beam or fog lamps (Default: 20 seconds)**

- It will be effective only if the shock sensor monitoring operation '0524' is ON.
  - It will not be effective unless you connect the shock sensor output (GND) to the K5OS-CCM.
  - The last two digits of the code are the time. 0715 ( Min 15 seconds ) ~ 0730 ( Max 30 seconds )
- You will hear the piezo sound equal to the code you entered.

**\* 0802 ~ 0808: Set the interval time to blink the hazard lamp (Default: 5 seconds)**

- Set the interval time to blink the hazard lamp while "Remote Start", "Stop & Go" and "Safe Turbo" features.
- The last one digit of the code is the time. 0802 (Min 2 seconds) ~ 0808 (Max 6 seconds)
  - You will hear the piezo sound equal to the code you entered.

**\* 0812 ~ 0818: Set the cranking time (Default: 1.2 seconds)**

- Warning!! Do not set this code if you don't have exact information to your car.
- It will keep running the starting motor to start the engine if you do the remote start.



- The last two digits of the code are the time. ( unit : 1/10 second )
  - Available Code : 08**12** (Min 1.2 seconds) ~ 08**18** (Max 1.8 seconds)
  - You will hear the piezo sound equal to the code you entered.

**\* 0900: Enable/Disable the piezo buzzer sound (Default: ON)**

- Switch between ON and OFF whenever you enter this code.
- You will hear the piezo sound '**2**900' if ON, and '**4**900' if OFF.
- ON: You will hear the piezo sound if you do the remote start and entering to the sleep mode.

**\* 0901: Switch the way you verify a successful remote start (Default: OFF)**

- This operating code may be set if the engine stops to run in 10 seconds after successful re-remote engine start.
- Switch between ON and OFF whenever you enter this code.
- You will hear the piezo sound '**2**901' if ON, and '**4**901' if OFF.

**\* 0903: Enable/Disable Data Verification after remote start (Default: ON)**

- Warning!! Do not change this code if you don't have exact information to your car.
- Switch between ON and OFF whenever you enter this code.
- You will hear the piezo sound '**2**903' if ON, and '**4**903' if OFF.

**\* 0905: Enable/Disable Voltage Verification after remote start (Default: OFF)**

- Warning!! Do not set this code if you don't have exact information to your car.
- Switch between ON and OFF whenever you enter this code.
- You will hear the piezo sound '**2**905' if ON, and '**4**905' if OFF.

**\* 0911: Reset all including the password**

- It will delete all custom settings including the password to default.