

CM6000 Option Tables and Programming Instructions

If you are new to installing Firstech Series Remote Starts and / or Alarms, we highly recommended that you thoroughly review the full manual before installing your first unit.

Key Points to Consider Before Installation:

You must code remotes to this system before anything will function. Program remotes by cycling the ignition ON / OFF five times within seven seconds and press and release button 1 (half second) on the first remote, and then press and release button 1 (half second) on the second remote.

Internal green/white loop must be cut for AUTOMATIC transmission vehicles.

By default, the units come in MANUAL transmission mode. You will need to cut the green/white loop inside the control module if you are installing the unit in a AUTOMATIC transmission.

Tach learning procedure:

Learn tach by: (1.) Starting the vehicle with the key, (2.) Press and hold the foot brake, then (3.) Activate the remote start sequence - one chirp and parking light flash indicates that the vehicle tach signal has been successfully learned. Three chirps and three parking light flashes indicate that the control module failed to see a proper tachometer signal. (These units have the option for Tachless and 1.5 second assume cranking).

Programmable Output Channel (POC)

Must have Option Programmer OP500

All control modules come with 9 programmable outputs that can be configured 19 different ways. It is important to familiarize yourself with the POCs as it will save time in most applications.

Internet updatable processors

Visit www.firstechonline.com

All CM6 series units are equipped with some of the most powerful processors available today. This flexibility allows for on-demand internet updating capabilities in the event of a version update or change.

| Option Group 1 | | | | | |
|----------------|--|---|---|---|--|
| | Feature | Default Setting - I | Optional Setting - II | Optional Setting - III | Optional Setting - IV |
| 1-01 | Unlock before, Lock after, starting | Off | On | Lock After Remote Start Only | Lock After Shutdown Only |
| 1-02 | Lock / Unlock pulse duration | 0.8 sec | 2.5 sec | 0.125 sec | 3.5 sec |
| 1-03 | Driver's priority unlock | Off | On | | |
| 1-04 | Double pulse unlock | Off | Unlock | Lock | Both Lock and Unlock |
| 1-05 | Rearm Output | After Start Shutdown and First Lock | After Start Shutdown and Every Lock | After Start Only | After Shutdown Only |
| 1-06 | Reservation Lock (Manual transmissions) | Locks Before Reservation Mode is Set | Hold Start Button for 2.5 sec. to Activate Reservation Mode | Reservation Sets 10 Seconds After the Last Door is Closed | Locks After Reservation Mode is Set |
| 1-07 | Unlock / Disarm With Trunk Release | Unlock, Factory Disarm, and Trunk Release | Factory Disarm, Trunk Release Only | Trunk Release Only | |
| 1-08 | Passive Mode | Off | Passive locking with Passive Arming | No Passive Locking with Passive Arming | |
| 1-09 | Ignition controlled door locks | Off | On | RPM Locks (Tach Sensing Mode Only) | |
| 1-10 | Auto Relock (If a door is not opened within this amount of time) | Off | 30 sec | 60 sec | 5 min |
| 1-11 | Ignition / Accessory Out Upon Unlock | Off | Ignition Pulse - same timing as disarm pulse | Acc Pulse - same timing as disarm pulse | Ignition and Acc Pulse - same timing as disarm pulse |
| 1-13 | Double Pulse Disarm Input | Single Pulse | Double Pulse | | |
| 1-14 | Auto Lock Mode (2 Way International Remotes) | Off | On | FT-EZGO On | |
| 1-15 | Trunk Output Timing | 1 sec | 2 sec | 3 sec | 4 sec |

| Option Group 2 | | | | | |
|-----------------------|---|--|---|---|--|
| | Feature | Default Setting - I | Optional Setting - II | Optional Setting - III | Optional Setting - IV |
| 2-01 | Tach Sensing Method | Optimal Tach Method | Previous Tach Method | Low Threshold Tach Method | |
| 2-02 | Turbo Timer | Off | 2 Min | 1 Min | 4 Min |
| 2-03 | Diesel Timer | Wire | 3~99sec (12 sec Default) | 7 sec | GM Ignition Delay |
| 2-04 | Trigger Start | Off | Single Pulse | Double Pulse | Triple Pulse |
| 2-05 | Cold or Hot Start with Thermistor Assembly | Off | Cold Start Only | Hot Start Only | Cold and Hot Start |
| 2-06 | Timer Start, or, Minimum Interval Between Cold Starts | 3 Hour (4 minute runtime, double for Diesel) | 1.5 Hour(4 minute runtime, double for Diesel) | Reservation (Runtime set by 2-7) 2 Way LCD Remotes Only | 24 Hour Repeat with Cold Starting of 2-8 (Runtime set by 2-7) 2 Way LCD Only |
| 2-07 | Remote Start Runtime | 15 Min | 25 Min | 45 Min | 3 Min |
| 2-08 | Temperature of Cold Starting | -10° C / 14° F | -20° C / -4° F | -5° C / 23° F | -15° C / 5° F |
| 2-09 | Temperature of Hot Starting | 25° C / 77° F | 30° C / 86° F | 35° C / 95° F | 40° C / 104° F |
| 2-10 | Engine Sensing | Tach | Alternator | No Connection – No Tach Sensing (Tachless Mode Only) | No Connection – 1.5 Second Crank (Not for Manual Transmissions) |
| 2-12 | Crank Time | Standard | +0.2 Seconds to Crank Time | +0.6 Seconds to Crank Time | (-)0.2 Second Crank Time |
| 2-13 | Timer Mode | Off | On | | |

| Option Group 3 | | | | | |
|-----------------------|-------------------------------------|---|-------------------------------|---|---|
| | Feature | Default Setting - I | Optional Setting - II | Optional Setting - III | Optional Setting - IV |
| 3-01 | Parking lights While Remote Started | Constant Output | Flashing Output | Off | |
| 3-03 | Dome Light Delay | Off | 5 sec | 45 sec | Auto |
| 3-04 | Starter-Kill Relay | Anti-Grind + Starter Kill | Anti-Grind | Anti-Grind + Passive Starter Kill | |
| 3-05 | Anti-Jacking | Starter-kill (No Anti-Grind) | Ignition-Kill | Auto kill (Auto-door locks Off) International Remotes w/ AUTO Function Only | Auto kill |
| 3-07 | Siren Duration (Upon Alarm Trigger) | 30 sec | 60 sec | 120 sec | Chirps for 20 seconds |
| 3-10 | Valet | Key 5 times, or Remote (I+III) while Ignition is On | Key 5 times or Remote (I+III) | Secure Valet (Default code 3,3) | |
| 3-11 | Auxiliary Settings Mode | Disabled | Enabled | | |
| 3-13 | Defroster Temperature Control | Standard | Only below 32 degrees F | | |
| 3-14 | Defroster Output Timing | 0.5 sec pulse | 3 min latch | 7 min latch | Constant Output Until Remote Start Shuts Down |
| 3-15 | Soft Disarm | Off | On | | |

Option Group 3 Continued

| | Feature | Default Setting - I | Optional Setting - II | Optional Setting - III | Optional Setting - IV |
|-------------|-------------------------|----------------------------|------------------------------|-------------------------------|---|
| 3-14 | Defroster Output Timing | 0.5 sec pulse | 3 min latch | 7 min latch | Constant Output Until Remote Start Shuts Down |
| 3-15 | Soft Disarm | Off | On | | |
| 3-16 | RPS | RPS 2 | RPS Touch | | |

Option Group 4

| | Feature | Default Setting - I | Optional Setting - II | Optional Setting - III | Optional Setting - IV |
|-------------|--|----------------------------|------------------------------|--|---------------------------------|
| 4-01 | Aux 1 output | 0.5sec | Latch | 0.5 sec Pulse + Program | Program |
| 4-02 | Aux 2 output | 0.5sec | Latch | 0.5 sec Pulse + Program | Program |
| 4-03 | Aux 1 output Control | By Remote | Arm | Disarm | Negative (-) out w/ign shutdown |
| 4-04 | Aux 2 output Control | By Remote | Arm | Disarm | Start |
| 4-05 | Secure Aux Output (1 and 2 Only) | On | Off | | |
| 4-06 | Auxiliary Input 1 – Green CN | Prewarn | Trigger | (-)Disarm | Open Circuit |
| 4-07 | Auxiliary Input 2 – Green CN | Trigger | Prewarn | (-)Arm | Open Circuit |
| 4-08 | Extended Accessory After Ign Shutoff | Off | 10 sec | 30 sec | Until Door Open (1 min max) |
| 4-09 | Key Sense or Glow Plug input | Glow Plug Input | Key Sense Input | Disable Arm/Disarm when Brown/White Wire Triggered Same Time | |
| 4-10 | Trigger Start or Closed Loop Alarm Trigger Input | Trigger Start input | Closed Loop System Input | | |
| 4-11 | Bypass Through RS232 Port | ADS | Fortin | | |
| 4-12 | Impact Sensor | Shock Sensor | DAS Sensor | 1st Stage Disarm Input 2nd Stage Arm Input | |
| 4-13 | Antenna Power Save | Off | 1 Day Later | 2 Days Later | 3 Days Later |
| 4-14 | Low Battery Warning | Off | On (at 11.3 volts) | Low Battery Start | |

Special Option Group 1

| | Feature | Setting Value (Seconds) |
|---|---------------------|--------------------------------|
| 1 | Diesel Timer - DISL | 3 ~ 99 |
| 2 | AUX1 output time | 1 ~ 100 |
| 3 | AUX2 output time | 1 ~ 100 |
| 4 | AUX3 output time | 1 ~ 100 |
| 5 | AUX4 output time | 1 ~ 100 |
| 6 | AUX5 output time | 1 ~ 100 |
| 7 | AUX6 output time | 1 ~ 100 |
| 8 | AUX7 output time | 1 ~ 100 |

| Special Option Group 2 | | | |
|------------------------|-------------------------------|-------------------------------------|--|
| | Feature | Setting and OP500 Value | |
| | Programmable Output Connector | 0 - Default Setting | 1~19 - Optional Settings |
| 1 | POC #1 | (-) 2nd Parking Light (Green/White) | 2nd Light - [1] 2nd Start - [2] 2nd IG1 - [3] 2nd Acc - [4] Status Out - [5] Rearm Out - [6] Disarm Out - [7] Horn Out - [8] Dome Light - [9] Aux 1 Out - [10] Aux 2 Out - [11] Aux 3 - [12] Aux 4 Out - [13] Aux 5 Out - [14] Aux 6 Out - [15] Aux 7 Out - [16] Defrost - [17] GWA - [18] Status 2 For Manual Trans. - [19] |
| 2 | POC #2 | (-) 2nd Start (Red/Black) | |
| 3 | POC #3 | (-) 2nd Ignition (Green) | |
| 4 | POC #4 | (-) 2nd Accessory (White/Black) | |
| 5 | POC #5 | (-) Status/GWR (Black) | |
| 6 | POC #6 | (-) Rearm Wire (Orange) | |
| 7 | POC #7 | (-) Disarm Wire (Orange/White) | |
| 8 | POC #8 | (-) Horn (White) | |
| 9 | POC #9 | (-) Auxiliary 1 (Violet) | |

Option Programming Using the OP500 (programmer)

The OP500 can be used to program any available option. It is required to program options in Special Option Groups 1 and 2.

STEP 1: Make sure system is unlocked/disarmed. Using the blue connector on the top of the OP500, connect it to the control module via the antenna wire. (Use the included extension cable if necessary.) Once connected, the OP500 will power up as long as the main ignition harness to the controller has been connected properly.

STEP 2: To change the option number you wish to program, use the left and right arrow keys on the OP500. It will scroll through the options available in menu 1 and then move to menu 2, then 3 and 4. Use the up and down arrow buttons on the OP500 to adjust the option settings; "1" is the default setting, and "2", "3", and "4" are the optional settings.

At the end of menu 4, if diesel mode or auxiliary setting functions were enabled – or if any of the auxiliary outputs were set to "Program", the duration of these settings can now be adjusted.

Following the auxiliary and diesel settings (if selected), the POC options will be displayed on the OP500. The POCs can be set between 0 (default) and 19.

STEP 3: When finished with the adjustment of the various option settings, press and hold the "W" (write) button until the OP500 chirps, which is approximately 2.5 seconds. This will write the settings to the control module. Wait until the module displays "Success" before disconnecting it from the antenna cable.

To reset the options, hold the "R" (reset) button and the "W" (write) button for 2.5 seconds. Release then write the reset, hold the "W" button until the OP500 chirps, which is approximately 2.5 seconds.

Option Programming Using a Remote

Using a remote is a timed process so read this section in its entirety before beginning. **IMPORTANT:** Special Option Groups cannot be programmed with a remote – the OP500 must be used.

STEP 1: Select the option menu that contains the desired programming option.

To program options use the following button combinations:

How to Program Options with 2-Way Remotes

| | With 2 Way Remotes (Wait for chirp between each tap) | Scroll Through Menu (Wait for chirp between each tap) | Wait for corresponding parking light flash and/or siren chirp before selecting the option | Select Option 1 | Select Option 2 | Select Option 3 | Select Option 4 |
|----------------------|---|--|--|------------------------|------------------------|------------------------|------------------------|
| Option Menu 1 | (1 + 2) for 2.5 seconds then (1 + 2) for 2.5 seconds | Tap Button 4 | | Tap Button 1 | Tap Button 2 | Tap Button 3 | Tap Button 4 |
| Option Menu 2 | (1 + 2) for 2.5 seconds then (1 + 4) for 2.5 seconds | Tap Button 4 | | Tap Button 1 | Tap Button 2 | Tap Button 3 | Tap Button 4 |
| Option Menu 3 | (1 + 4) for 2.5 seconds then (1 + 2) for 2.5 seconds | Tap Button 4 | | Tap Button 1 | Tap Button 2 | Tap Button 3 | Tap Button 4 |
| Option Menu 4 | (1 + 4) for 2.5 seconds then (1 + 4) for 2.5 seconds | Tap Button 4 | | Tap Button 1 | Tap Button 2 | Tap Button 3 | Tap Button 4 |

How To Program Options With 1 Way Remotes

| | With 2 Way Remotes (Wait for chirp between each tap) | Scroll Through Menu (Wait for chirp between each tap) | Wait for corresponding parking light flash and/or siren chirp before selecting the option | Select Option 1 | Select Option 2 | Select Option 3 | Select Option 4 |
|----------------------|--|--|--|------------------------|------------------------|------------------------|--|
| Option Menu 1 | Lock + Unlock for 2.5 seconds then Lock + Unlock for 2.5 seconds | Hold Trunk + Key/Start for 2.5 seconds | | Tap Lock Button | Tap Unlock Button | Tap Key/Start Button | Hold Trunk + Key/Start for 2.5 seconds |
| Option Menu 2 | Lock + Unlock for 2.5 seconds then Lock + Key/Start for 2.5 seconds | Hold Trunk + Key/Start for 2.5 seconds | | Tap Lock Button | Tap Unlock Button | Tap Key/Start Button | Hold Trunk + Key/Start for 2.5 seconds |
| Option Menu 3 | Lock + Key/Start for 2.5 seconds then Lock + Unlock for 2.5 seconds | Hold Trunk + Key/Start for 2.5 seconds | | Tap Lock Button | Tap Unlock Button | Tap Key/Start Button | Hold Trunk + Key/Start for 2.5 seconds |
| Option Menu 4 | Lock + Key/Start for 2.5 seconds then Lock + Key/Start for 2.5 seconds | Hold Trunk + Key/Start for 2.5 seconds | | Tap Lock Button | Tap Unlock Button | Tap Key/Start Button | Hold Trunk + Key/Start for 2.5 seconds |

STEP 2: Scroll through menu allowing for 1 parking light flash and/or siren chirp per step.

STEP 3: Once finished scrolling through the menu wait for the parking lights and/or siren chirp to confirm the option number. i.e. option 2-04 will flash 4 times. Then use one of the table selections to select the option corresponding to your desired setting.

Resetting to Factory Defaults: To reset the options in a particular menu group, enter the menu shown in the above tables. To reset options with a 2 Way remote tap button 3 three times. To reset options with a 1 Way remote tap the Key/Start button 3 times. Wait for the siren to chirp and parking lights to flash between each tap. After the third tap, the option menu will reset and the siren will chirp three times. This must be done for each option group that needs to be reset.