

AUTO SECURITY COMPUSTAR



CM4200DX Remote Starter INSTALL GUIDE

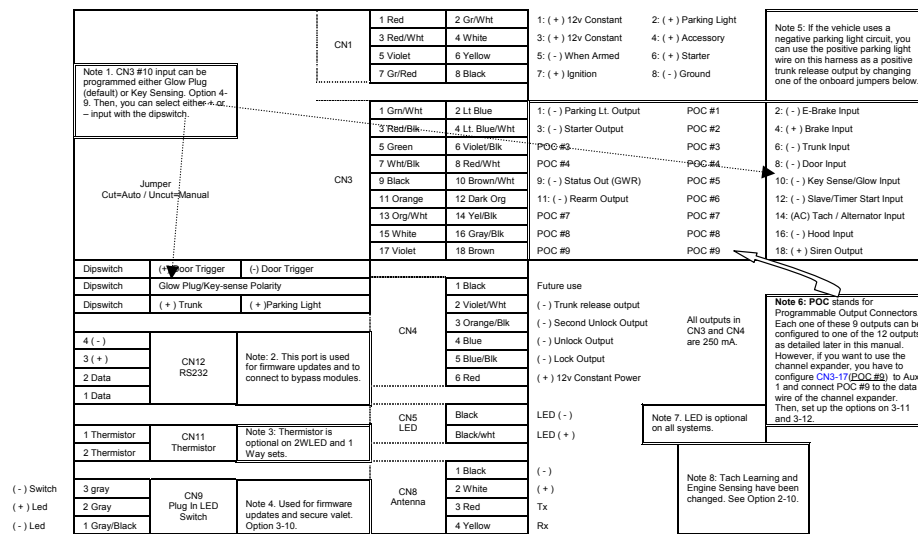
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AUTO SECURITY COMPUSTAR PRO

CM4200 Alarm/Starter Control Module

This manual is for professional installers. Please read and understand this manual before you start to install. If you have any questions, please do not hesitate to call the tech support (888)820-3690. (8 am to 5 pm Pacific Time)

I. Wiring Chart and Notes



Note 9: Whenever the system fails to remote start, the vehicle provides you Diagnostic Error Messages: # of times parking lights flash. (2 Way LCD Remotes will show Strt Err#.)

1 - Engine On	2 - Key On	3 - Door Open	4 - Trunk Open	5 - Foot Brake On
6 - Hood Open	7 - Reservation Off (Manual Transmission Only)	8 - No Tach or Voltage Sensing Failure		

Note 10: Additional Items to Install

Antenna	Usually mounted in the front windshield. Stay at least 1.5 inches away from metal and mount below the tint stripe.
LED Switch	Enables the use of Secure Valet mode, mount where the customer will have convenient access.
LED	Theft deterrent, LED output is 3 volts.
Thermistor	Senses the current temperature, this item is connected to a port on the back side of the controller.

Note 11: Remote Coding Procedure

To code the remote to the system you must have; both 12v+ constant wires, the ground wire, and the ignition wire of the system connected to the vehicle. You must have the antenna connected to the main controller as well. After you have connected these wires or more, follow these steps to code a remote to the system. Please read through the steps before beginning.

- Cycle the key in the ignition from the "Off" position to the "On" position 5 times. This must be done within 2 seconds. The 5th time you turn the ignition on, you will hear the parking light relay "click". This will happen the moment the ignition is turned on the 5th time so it is easy to miss the first relay click. If you hear two relay clicks, the system has just exited remote coding mode.
- Right after cycling the ignition for the 5th time and receiving the first relay click:
 - 1-Way Remote: Tap the lock button on the remote for 0.5 seconds.
 - 2-Way Remote: Tap button 1 for 0.5 seconds.
- After pressing the button on the remote, you will hear the parking light relay click once to indicate that it has accepted the remote. If you have other remotes to program to the system, repeat step 2 for each remote you have, one after the other. Each system can accept three remotes with the exception of the SS Pro.

Remote Coding - under Secure Valet - Option 3-10-III

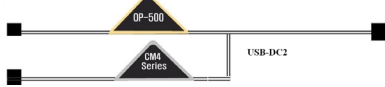
If you elect Option 3-10-III, you can code remotes when you put the system into Secure Valet. Upon entering the secure valet code, you will hear the parking light relay click. Program a remote or remotes until you hear two relay clicks. See the note later in this manual regarding Secure Valet, Option 3-10.

Note 12: Updating Controller Module

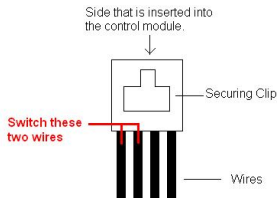
Look at the wiring chart of the module. If it is marked "V", you have Version 12. If you have any other version, it will show the version number. Please check www.compustar.com to find out if there are any new updates. If there is any, we recommend you to update the module before installation. All three modules, CM4000, CM4200(DX) and CM4300, use same software program.

Updating the Module.

- You need to have a USB Uploader, the part number CST-USB-ASSY (3 components – a USB cable, a USB Module and a double head data cable.) If you already have a USB Uploader for OP500 or DataLink, order the double head data cable, part number USB-DC2 for free of charge. You need to pay freight. USB-DC2 is a cable connecting USB module to CompuStar and has two connectors instead of one



Or, for a temporary use, you may modify any of the CompuStar antenna cable you have now. See below.



- Plug in USB connector to available USB port on computer. Do not have anything (datalink, CM4000, OP500 etc) connected to the updater when connecting it to the computer.
- Windows will automatically find drivers for the USB upload cable.
- To retrieve software for updating, please email: support@compustar.com. Please write "request for update software" in subject. You can also go to www.compustar.com.
- Now you are ready to update your control module.
- You will need to first identify what COM port your USB device is set up to use. To do this, Right-click on "My Computer" and go to "Properties". Once the properties window is on the screen, click the "Hardware" tab at the top of the window. Then in the main body of the window, click on the Device Manager" button. Under "Ports (COM & LPT)" there should be a device called "USB Serial Port (COM?)", the number that is in place of the question mark is your selected com port. Disconnect the main harness; the system can not have power while you are attempting to update its software.
- The LED/Secure Valet switch must be connected.
- Connect to the RS232 port of CompuStar.
- Open the "CM4000 v12" folder, for example, and hold the LED/Valet switch button down while you double-click the file that matches your com port. Example: I use COM5 so I would use "Update-COM5.bat". Once the LED in the LED/Valet switch starts flashing, you can let go of the button. After it is finished, just disconnect the CM4000 from the USB Updater and connect the next CM4000 if you have more to do.

II. Option Programming Tables

Option Programming and Secure Valet are available only when "DISARMED".
Special Option Group #1 and #2 can be programmed only with OP500.

OPTION GROUP 1

#1	Feature	Setting				Applicable To		
		Default(I)	Optional(II)	Optional(III)	Optional(IV)	CM4000	CM4200-DX	CM4300
1-1	Unlock before Lock after, starting	Off	On	Lock After Start Only		V	V	
1-2	Lock / Unlock pulse duration.	0.8 sec	2.5 sec	0.125 sec	3.5 sec	V	V	V
1-3	Driver's priority unlock	Off	On			V	V	V
1-4	Double pulse unlock.	Off	On			V	V	V
1-5	Rearm Output	After Start Shutdown and First Lock	After Start Shutdown and Easy Lock			V	V	V
1-6	Reservation Lock (Manual transmission)	Locks When Reservation Mode is Set	Does Not Lock When Reservation is Set	Reservation Sets 10 Seconds After the Last Door is Closed		V	V	
1-7	Unlock / Disarm With Trunk Release	Unlock, Factory Disarm, and Trunk Release Only	Factory Disarm, Trunk Release Only	Trunk Release Only		V	V	V
1-8	Locking while in Passive Arming	Passive locking w/ Passive Arming	No Passive Locking w/ Passive Arming			V	V	V
1-9	Ignition controlled door locks	Off	On	RPM Locks (Tach Sensing Mode Only)		V	V	V
1-10	Auto Re-lock (If a door is not opened within this amount of time.)	Off	30 sec	60 sec	5 min	V	V	V
1-11	Ignition / Accessory Out Upon Unlock	Off	Ignition Pulse-same timing as disarm pulse	Acc Pulse-same timing as disarm pulse	Ig and Acc Pulse-same timing as disarm pulse	V	V	V

OPTION GROUP 2

#2	Feature	Setting				Applicable To		
		Default(I)	Optional(II)	Optional(III)	Optional(IV)	CM4000	CM4200-DX	CM4300
2-1	Min. Crank Time	Standard	+0.2 Seconds to Crank Time	+0.6 Seconds to Crank Time (Voltage Sensing Only)		V	V	

2-2	Turbo mode	Off	2 Min	1Min	4 Min	V	V	
2-3	Diesel timer.	Wire	3-99sec (10sec Default)			V	V	
2-4	Trigger Start	Off	Single Pulse	Double Pulse		V	V	
2-5	Cold Start with Thermoistor Assembly	Off	On			V	V	
2-6	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 2-7)	24 Hour Start with Cold Starting (Runtime 2, 8 (Runtime 2, 7)	V	V	
2-7	Remote Start Runtime	15 Min	25 Min	45 Min	3 Min	V	V	
2-8	Temperature of Cold Starting	Off	-10° C / 14° F	-5° C / 23° F	0° C / 32° F	V	V	
2-9	Temperature of Hot Starting	Off	30° C / 86° F	35° C / 95° F	40° C / 104° F	V	V	
2-10	Engine Sensing	Tach	Alternator	No Connecting – Voltage Not for Manual Transmissions		V	V	
2-11	Turbo, Remote Start Runtime Extension w/ #1 for 2 seconds	No	Yes			V	V	

OPTION GROUP 3

#3	Feature	Setting				Applicable To		
		Default(I)	Optional(II)	Optional(III)	Optional(IV)	CM4000	CM4200-DX	CM4300
3-1	Parking lights While Remote Started	Constant Output	Flashing Output	Off		V	V	
3-2	Dome Light output	Off	Factory Rearm	45 sec	Factory Rearm + 45 Sec	V	V	V
3-3	Dome Light Delay	Off	5 sec	45 sec	Auto	V	V	V
3-4	Starter-Kill relay.	Anti-Grind	Anti-Grind + Starter Kill	Anti-Grind + Passive Starter Kill		V	V	
3-5	Anti-jacking	Starter-kill	Ignition-Kill (no Anti-Grind)	Auto kill (Auto-door locks On) Canadian Remotes w/ AUTO Function Only	Auto kill (Auto-door locks On) Canadian Remotes w/ AUTO Function Only	V		V
3-6	Factory Alarm Option	Off	On (4200DX Only)				V	
3-7	Siren Duration (Upon Alarm Trigger)	30 sec	60 sec	120 Sec	Chirps for 20 seconds	V		V
3-8	Horn Output	On Double Lock Only	On Lock and Unlock	On Lock, Unlock, and Start	On Double Lock and Start		V	
3-9	Horn Output (4000/4300) When Alarm is Triggered	Pulsed Output (Horn)	Constant Output (Secondary Siren)			V	V	V
3-10	Valet	Acc 5 times, or Remote (I+III) while Ignition is On	Acc 5 times, or Remote (I+III)	Secure Valet(Default code 3-3)		V	V	V
3-11	Channel Expander Mode	Disabled	Enabled			V	V	V
3-12	Passive Arming with Channel Expander enabled	No Passive Arming	Passive Arming			V	V	V

3-10 New in 4000 series. To avoid accidental entry to Valet Mode, you need to have IG on while I+III are pushed

OPTION GROUP 4

#4	Feature	Setting				Applicable To		
		Default(I)	Optional(II)	Optional(III)	Optional(IV)	CM4000	CM4200-DX	CM4300
4-1	Aux 1 output	0.5sec	Latch	20 sec	Program	V	V	V
4-2	Aux 2 output	0.5sec	Latch	60 sec	Program	V	V	V
4-3	Aux 1 output Control	By Remote	Arm	Disarm	Panic	V	V	V
4-4	Aux 2 output Control	By Remote	Arm	Disarm	Panic	V	V	V
4-5	Secure Aux Output (1 and 2 Only)	On	Off			V	V	V
4-6	Auxiliary Input 1	Prewarn	Trigger	(-)Disarm		V	V	V
4-7	Auxiliary Input 2	Trigger	Prewarn	(-)Arm		V	V	V
4-8	Extended Accessory After Ign Shutdown	Off	10 sec	30 sec	Until Door Open (1 min max)	V	V	V
4-9	Key Sense or Glow Plug Input	Glow Plug Input	Key Sense Input			V	V	
4-10	Trigger Start or Closed Loop System Input	Trigger Start input	Closed Loop System Input			V	V	V

SPECIAL OPTION GROUP #1

1	Feature	Setting Value [seconds]	Applicable To		
			CM4000	CM4200-DX	CM4300
1	Diesel timer	3 – 99	V	V	
2	AUX1 output time	1 – 100	V	V	V
3	AUX2 output time	1 – 100	V	V	V
4	AUX3 output time	1 – 100	V	V	V
5	AUX4 output time	1 – 100	V	V	V
6	AUX5 output time	1 – 100	V	V	V
7	AUX6 output time	1 – 100	V	V	V
8	AUX7 output time	1 – 100	V	V	V

SPECIAL OPTION GROUP #2

2	Feature	Setting Value	Applicable To		
			CM4000	CM4200-DX	CM4300
1	Programmable Output Connector	0(Default)			
1	POC #1	2nd LIGHT	V	V	V
2	POC #2	2nd START	V	V	

3	POC #3	2nd IGI	Disarm Out[7], Horn Out[8], Dome Light[9]	V	V	
4	POC #4	2nd ACC	Aux1 Out[10], Aux2 Out[11], Defos[12]	V	V	
5	POC #5	STATUS		V	V	
6	POC #6	REARM		V	V	V
7	POC #7	DISARM		V	V	V
8	POC #8	HORN		V	V	V
9	POC #9	DOME LIGHT		V	V	V

CM4 Series Option Menu Descriptions

- 1-3 Driver's priority unlock: The driver's door must be isolated from the other doors. Some additional installation is required. Please contact technical support for more information.
- 1-4 Double pulse unlock 1-4: This feature can not be used with option 1-3, drivers priority unlock.
- 1-5 Rearm Output: On some vehicles, if the lock button is pressed again (1-way remotes) after the system is locked/armed, and the rearm wire pulses while the factory system is already armed, the factory alarm will be triggered.
- 1-6 Reservation Lock (Manual Transmission) Setting 3 will provide a 10 second delay before the vehicle shuts off after closing the drivers door to allow the user to open another door. 10 seconds after all the doors are closed, if no other door is opened, the system will shut down the vehicle, set reservation, and arm the alarm.
- 1-9 Ignition controlled door locks: Tach sensing mode must be used for this feature to work. You must also turn this feature on through the remote.
- 1-10 Auto Relock: If this option is turned on, the system will automatically relock/rearm if the system is disarmed but a door is not opened. The auto relocking can be set for 30 seconds, 60 seconds, or 5 minutes. For setting 2, the siren will chirp and parking lights flash every 10 seconds. For setting 3, the siren will chirp and parking lights flash every 20 seconds. For setting 4, the siren will chirp and parking lights flash every 1 minute, 40 seconds. In every instance, on the third chirp/parking light flash the system will lock/arm.
- 1-11 Ignition/Accessory Out Upon Unlock: Mostly new dodge vehicles need ign/acc pulse to disarm factory alarm.
- 2-2 Turbo mode: The e-brake must be connected to the control module. You must also turn on this feature through the remote.
- 2-3 Diesel Timer: Without setting this option you must find the vehicle's wait to start wire. The default time for Setting 2 is 10 seconds. This can be increased or decreased only with the Option Programmer OP500.
- 2-4 Trigger start: This option allows the control module to be used as a slave unit. This option determines whether the slave start wire on CN3 requires a single or double pulse to active the remote start. This can be used on vehicles where the user would like to keep the factory remote.
- 2-5 Cold Start with Thermistor Assembly: Turning this option on will turn on the cold/hot start feature. This option works in conjunction with option 2-6. You must also set the temperatures in options 2-8 and 2-9.
- 2-6 Timer Start, or, Minimum Interval Between Cold Starts: This option dictates the time interval when the control module will either remote start or check the temperature and remote start.
- Option 1: Will start every 3 hours until the vehicle is remote started or started by key – for 4 minutes.
Option 2: Will start every 1.5 hours until the vehicle is remote started or started by key – for 4 minutes.
Option 3: Will start at the time specified on the 2 way remote one time for the duration set by Option 2-7.
Option 4: Will start at the specified time on the remote every 24 hours if the temperature falls below as set under 2-8. For example, if you want your car starts everyday 7 am in the morning for 25 minutes when the temperature of the inside of the vehicle falls below 32°F, you need to set up:
- Option 2-5 (Cold Start) turned on,
 - Option 2-6-IV (24 hr. repeat) turned on,
 - Option 2-7-II (25 min run-time) turned on,
 - Option 2-8-IV (Temp 32°F) turned on,
 - Set the reservation time at 7 am (see User's guide)
 - Turn on Timer Mode of the 2 way LCD remotes (see User's Guide)

2-10 Setting Tach/Alternator/Voltage Sensing

There are three modes for knowing when the vehicle has successfully started. The modes and methods of using them are listed below. These various modes can be selected in the programming menus.

- Tachometer Wire Sensing – No Tach Learning Button in 4000 series**
To learn the tach setting, press and hold the remote-start button on the remote for 2.5 seconds while the vehicle is running with the key and your foot is on the foot brake. Tach wires can be usually be found on the coil pack of the engine or as the odd colored wire on any of the injectors or coil packs if the vehicle has more than one.
- Alternator Wire Sensing**
This mode requires a soldered connection to a wire on the alternator that reads 0 volts DC while the vehicle is off, 4-10 volts while the ignition is on, and 12-14 volts while the vehicle is running. You do not need learn the alternator output with this setting.
- Voltage Sensing – No Wire Connection, Automatic Transmission Only.**
This mode reads the vehicle battery voltage through the main power wires of the system. During the start process, the system looks for changes in the voltage on those wires. Once the vehicle has started, the voltage on the main power wire should jump considerably, telling the system that the vehicle is now running. This mode will make it easy to install the following vehicles:
 - Electronic Starter Vehicles.
Some of the newer vehicles, such as, 06 CHEVY EQUINOX, 06 SATURN VUE, 06 SATURN ION, 06 GMC DENALI, 07 GMC DENALI, 06 CADILLAC ESCALADE, 07 CADILLAC ESCALADE, 06 LEXUS RX330, 06 CHEVY COLORADO, 06 GMC CANYON come with Electronic Starting System which determines cranking time automatically by its own on-board computer upon receipt of an electrical pulse from starter wire.
 - Vehicles in Warm Regions
In the warm regions where the temperature stays above 32° F year round, most vehicles with decent batteries start successfully with a 0.6 to 1.5 second starter pulse. VS mode will work perfectly with most vehicles in these areas.

NOTE: Vehicles in Cold Regions

In the cold regions where the winter temperature falls below 32° F, the starter cranking time varies from 0.5 to 2 or 3 seconds depending on the engine temperature. In these areas, VS mode may fail to start some vehicles early in the morning when the temperature is below 32° F and the vehicle has sat out all night. VS may work perfectly on some of newer or smaller vehicles even under these circumstances. Unfortunately, at this time we do not know what types of vehicles will work or what types of vehicles will not work. We will continue to work on making VS mode more intelligent so that the future version of VS mode will work in these extreme temperatures.

2-11 Turbo, Remote Start Runtime Extension w/#1 for 2 seconds: When you set this option you can reset the run time of either the remote start or turbo timer. To reset the time you must hold button 1 for 2.5 seconds while the vehicle is remote started or while the turbo timer is running.

3-2 Dome Light Output: This option sets the timing output of the Dome Light wire on CN3.

Option 2: Factory Rearm – On this setting, the system pulses the dome light output while locking/arming the vehicle. Some vehicles need this to arm the factory alarm. (Dome Light On, Lock(Arm), Dome Light Off)

Option 3: 45 Second Dome Light Output – activates the dome light for 45 seconds after the system is disarmed.

Option 4: Is a combination of options 2 and 3.

3-3 Dome Light Delay: This setting gives the control module the ability to ignore the door trigger for the set amount of time. Without this option set, if the dome light is still on when the vehicle is armed, the remote will show the door open on the LCD display.

On options 2 and 3, if the door trigger is still active after the set time, the car will chirp and or flash the parking lights 4 times, and the remote will be paged (if a 2-way remote is used) indicating that the door is open.

Option 4: Door trigger will be ignored until the trigger goes away. Only use this mode when necessary, because if the door is actually left open, you will not be notified.

3-4 Starter-Kill relay: With this option on the default setting, the starter-kill relay will act as an anti-grind circuit only. It will not disable the starter when the system is locked/armed. On setting 2, the starter-kill relay will act as an anti-grind and starter-kill circuit. Setting 3 is the same as 2, but a passive starter-kill is activated 45 seconds after the vehicle is turned off or disarmed.

3-6 Factory Alarm Option - CM4200DX Only: With this option turned on, the 4200DX starter only system will function as a factory style alarm by monitoring the door trigger and sounding the horn and flashing the parking lights if the door is opened after the doors have been locked. Also, the two way remotes will be paged.

3-8 Horn Output – CM4200DX Only: This On default setting the horn will honk only on double lock. This is only available on 1-way remotes. Optional setting 2 will pulse the horn on lock and unlock. Optional setting 3 will pulse the horn on lock, unlock and remote start. Optional setting 4 will pulse the horn on double lock and remote start. This will only work on 1-way remotes.

3-10 Valet: This option changes the way you put the system into valet mode. On default setting you can either cycle the ignition 5 times with the key or turn the ignition on and tap buttons 1+3 – this is a new feature in 4000 series. Setting 2 let you either cycle the ignition 5 times with the key or tap buttons 1+3 – same as CM3000 series.

Setting 3 is a secure valet. The default code is 3, 3 or any number you entered for the RPS unlock code. See the note 11 on the Wiring Chart. You can change the numbers by repeating the following steps and the first 2 numbers of RPS unlock and secure valet codes overwrite each other.

- Turn on Option 3-10-III.
- Turn key to the ignition on position.
- Hold down valet switch for 1.5 seconds. LED on switch will begin to flash rapidly.
- Tap the button on the switch to enter first number of 2-digit code. LED will flash the first number slowly.
- Once the LED begins flashing rapidly tap the button on the switch to enter the second number.
- Turn ignition off and Valet Switch is now programmed.
- To enter valet mode follow steps 3 to 5

4-3 Aux 1 output Control: These are optional event triggers. Default setting triggers Aux 1 by the remote. Setting 2 triggers Aux 1 by remote and arming of the system. Setting 3 triggers Aux 1 by remote and disarming of the system. Setting 4 triggers Aux 1 through panic of the system.

4-4 Aux 2 output Control 4-4:
Same as 4-3 except that an event triggers Aux 2.

4-5 Secure Aux Output (1 and 2 only): With this option on the default setting you must first tap button 4 on the remote and then tap either button 2 or 3 to activate Aux 1 or Aux 2. This is to prevent accidental triggering of Aux 1 or 2 if they are hooked up to door poppers or window modules. On optional setting 2, this turns the secure aux off.

4-8 Extended Accessory After Ignition Shutoff: With this setting you can set the system to keep the Accessory wire powered up after you shut the ignition off. This can be used to keep the radio powered for a certain amount of time.

4-9 Key Sense of Glow Plug Input: Default setting sets the wire as a glow plug input wire. Setting 2 changes the wire into a key sense input. The key sense input can be used to prevent setting reservation (manual transmission) and passive arming while the key is still in the ignition. Also, the dome light supervision will stop when the key is inserted in the ignition.

4-10 Trigger Start or Closed Loop System Input: Default setting is the trigger start when using the control module as a slave unit. Setting 2 changes the wire into a closed loop system. The wire becomes an instant trigger if the wire is separated from ground. (-) This can be used for headlights housings or connected to a tow hitch.

Special Option Group 1: This option group controls the Diesel Timer and Aux 1 through 7. Aux 3 through 7 are only available with the Channel Expander. The Diesel Timer can only be set for 3 to 99 seconds. Aux 1 through 7 can be set from 1 to 100 seconds. This option group can only be accessed with the OP500 Option Programmer.

Special Option Group 2: This option group controls the Programmable Output Connectors. (POC) The POCs are located on CN3. (please see wiring guide for more details) This option group can only be accessed with the OP500 Option Programmer. At default setting each option is set to 0. You can set each POC to 1-12. This changes the function of the POCs. Please see the option menu and wiring guide for details of each POC.

III. How to Change Options with OP500 and Remotes

The options can be set using the OP-500 option programmer, a 1-way or 2-way remote, or the antenna if you are using an ANT-1WAM or ANT-1WSH.

Option Programming Using a 2-Way Remote

Programming the main controller option using a remote is a timed process so you should read the instructions entirely before beginning.

1. Selecting the Option Menu

Select the option menu that contains the option you would like to adjust. Be aware, the special option groups are not available when programming options with a remote. To select a menu, use the following button combinations:

I+II for 2.5 sec. then I+II for 2.5 sec.	Menu 1
I+II for 2.5 sec. then I+IV for 2.5 sec.	Menu 2
I+IV for 2.5 sec. then I+II for 2.5 sec.	Menu 3
I+IV for 2.5 sec. then I+IV for 2.5 sec.	Menu 4

2. Selecting the Specific Option

After entering the option menu that contains the option you wish to change, tap button IV the number of times equal to the option number. Wait for a parking light flash and siren chirp between each button press. A few seconds after you have stopped tapping button IV, the system will confirm which option you have selected by the number of siren chirps and parking light flashes.

3. Setting the Option

After the system is finished confirming the option number, set the option to your desired setting by pressing button I, II, III, or IV.

Resetting the Factory Defaults

To reset the options in a menu, enter the menu as if you were going to program an option then tap button III for 0.5 sec, three times. Wait for a siren chirp and parking light flash between each tap. After the third tap, the option menu will reset and the siren will chirp three times. The options in the other three menus will remain set.

Option Programming Using a 1-Way Remote

Programming the main controller option using a remote is a timed process so you should read the instructions entirely before beginning.

1. Selecting the Option Menu

Select the option menu that contains the option you would like to adjust. Be aware, the special option groups are not available when programming options with a remote. To select a menu, use the following button combinations:

(The corresponding buttons for I, II, III, IV should be listed as 1 = Lock, 2 = Unlock, 3 = Trunk, 4 = Start)

I+II for 2.5 sec. then I+II for 2.5 sec.	Menu 1
I+II for 2.5 sec. then I+IV for 2.5 sec.	Menu 2
I+IV for 2.5 sec. then I+II for 2.5 sec.	Menu 3
I+IV for 2.5 sec. then I+IV for 2.5 sec.	Menu 4

2. Selecting the Specific Option

After entering the option menu that contains the option you wish to change, [hold buttons III and IV until the parking lights flash, then release] the number of times equal to the option number you wish to change. Wait for a parking light flash and siren chirp between each button press. A few seconds after you have stopped selecting an option, the system will confirm which option you have selected by the number of siren chirps and parking light flashes.

3. Setting the Option

After the system is finished confirming the option number, set the option to your desired setting by pressing button(s); [I] for 0.5 sec. for the default option, [II] for 0.5 sec. for optional setting 2, [III] for 2.5 sec. for optional setting 3, and [III+IV] for 2.5 sec. for optional setting 4.

Resetting to Factory Defaults

To reset the options in a menu, enter the menu as if you were going to program an option then tap the start button for 0.5 sec, three times. Wait for a siren chirp and parking light flash between each tap. After the third tap, the option menu will reset and the siren will chirp three times. The options in the other three menus will remain set.

Option Programming Using the 1-Way Antenna Button

Programming the main controller option using an antenna is a timed process so you should read the instructions entirely before beginning.

1. Turn vehicle's ignition to the on position.

2. Selecting the Option Menu

Select the option menu that contains the option you would like to adjust. Be aware, the special option groups are not available when programming options with an antenna. To select a menu, use the following button combinations:

Hold antenna button until you hear/sec 1 chirp/parking light flash.	Menu 1
Hold antenna button until you hear/sec 2 chirps/parking light flashes.	Menu 2
Hold antenna button until you hear/sec 3 chirps/parking light flashes.	Menu 3
Hold antenna button until you hear/sec 4 chirps/parking light flashes.	Menu 4

3. Selecting the Specific Option

After entering the option menu that contains the option you wish to change, tap the antenna button the number of times equal to the option number you wish to change. A few seconds after you have stopped selecting an option, the system will confirm which option you have selected by the number of siren chirps and parking light flashes.

4. Setting the Option

After the system is finished confirming the option number, set the option to your desired setting by tapping the antenna button 1,2,3, or 4 times.

Resetting to Factory Defaults

To reset the options in a menu, enter the menu as if you were going to program an option then hold the antenna button for three seconds. The option menu will reset and the siren will chirp three times. The options in the other three menus will remain set.

Option Programming Using the OP-500

The OP-500 is required to program options in the Special Option Groups 1 and 2.

1. Connection to Control Module

Using the blue connector on the top of the OP-500, connect it to the control module via the antenna wire. (Use the included extension cable if necessary.) Once connected, the OP-500 will power up. (The control module must have 12v+ and ground.)

2. Setting Options in Option Menu and Special Option Groups

To change the option number you wish to program, use the left and right arrow keys on the OP-500, it will scroll through then options available in menu 1 and then move to menu 2, then 3 and 4. At the end of menu 4, if you have turned on diesel mode or the channel expander, or set any of the auxiliary outputs to "Program", you will have the option to program the duration of the diesel timer and/or auxiliary outputs. After the aux and diesel settings (if selected), the POC options will be displayed. The "POCs" are the programmable outputs on CN3 of the Pro-Series modules. Please refer to the installation guide of the main controller for more information.

You can then use the up and down arrow buttons to adjust the option's settings. "1" is the default setting, and "2", "3", and "4" are the optional settings. The timing of the aux outputs and of the diesel timer is displayed in seconds, and the POCs can be set between 0 (default) and 12. If you wish to restore all of the factory defaults, you can press "R" and "W" until the OP-500 chirps.

3. Finalizing Option Settings to Control Module

When you are done adjusting the various option settings or resetting them to the factory defaults, press and hold the "W" (write) button until the OP-500 chirps. This will write the settings to the control module. Wait until the module displays "Success" before disconnecting it from the antenna cable.

Updating the OP-500

This is required if you have an early version of the OP-500

1. To retrieve software for updating please email: support@compustar.com. Please write "request for update software" in subject. You can also go to www.compustar.com

2. You will need to first identify what COM port your USB device is set up to use. To do this, Right-click on "My Computer" and go to "Properties". Once the properties window is on the screen, click the "Hardware" tab at the top of the window. Then in the main body of the window, click on the Device Manager" button. Under "Ports (COM & LPT)" There should be a device called "USB Serial Port (COM?)", The number that is in place of the question mark is your selected com port.

3. Connect the USB Updater to the computer, do not have anything (datalog, CM4000, OP500 etc) connected to the updater when connecting it to the computer. After a few seconds, connect the USB Updater to the "USB" port on the OP500 using the supplied cable. Open the "OP500 v6.2" folder and hold the "W" button on the OP500 down while you double-click the file that matches your com port.

Example: I use COM5 so I would use "UPDATE-V6-COM5.bat". Once the OP500 displays "UP" on the screen, you can let go of the "W" button. After it is finished, just disconnect the OP500 from the USB Updater and connect the next OP500 if you have more to do.

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