



**Programming Note:** Ⓣ  
The default wire function settings are listed next to the wire color. Wires shown with Ⓣ can be programmed to perform different functions. Refer to the Feature Programming section to change the default setting.

**Installation Note:**  
The module should be securely attached to a stable surface using zip ties in order for the on-board shock and tilt sensor to function properly.

**Remote Start Shutdown Diagnostics**

If the remote start shuts down or fails to start, the parking lights will flash one of the patterns below indicating the shutdown input. To manually enter diagnostics and view the last shutdown, turn the ignition ON and press and release the button.

PARKING LIGHT FLASHES	SHUTDOWN ZONE
3 Flashes	Hood / Brake Input
4 Flashes	Remote Start Valet Mode
5 Flashes	Manual Transmission Mode not ready
7 Flashes	Tach not learned / Crank Average not learned

**Tach Programming**

The remote start will not operate unless the tach is programmed or a tachless option is turned ON. The default method set for Tach Mode in the feature programming banks for confirming that the engine is running is "Tach". This method monitors the PURPLE/WHITE tach input wire. If an attempt is made to start the vehicle via the remote start without first programming tach, the unit will flash the parking lights 7 times indicating tach has not been learned and stored.

The Remote Start unit will learn the tach rate of most vehicle's single coil, multiple coil packs, or single injector. There are 2 methods for learning the vehicle's tach rate, to learn tach follow one of the methods below:

- Standard:**
- Turn the ignition key to the ON position.
  - Press and release the valet/override button 3 times.
  - Immediately turn the ignition key OFF.
  - Press and hold the valet/override button, then start the vehicle using the key.
  - When the unit senses the tach signal, the parking lights will begin to flash.
  - Allow the vehicle to settle to a normal idle speed.
  - Release the valet/program push-button switch. The parking lights will turn on for 2 seconds and 1 long chip will indicate that the learned tach signal is stored, and the unit has exited tach learn mode.

**Without valet/override button using the Factory Remote w/Flashlogic Interface or CarLink Device:**

- Start the vehicle's engine leaving the ignition key in the On/Run position.
- Press and hold the brake pedal.
- Lock the system using the either the Factory Remote/Flashlogic Interface or CarLink device. The system must see the lock input from either of these two methods.
- When the unit senses the tach signal, the parking lights will begin to flash.
- Allow the vehicle to settle to a normal idle speed.
- Release the brake pedal. The parking lights will turn on for 2 seconds and 1 long chip will indicate that the tach signal has been stored, and that the unit has exited tach learn mode.

**Note:** If the unit fails to learn tach rate due to an improper tach connection or a poor tach source, the parking lights will not flash. To correct this situation, locate the proper tach signal, and then repeat the tach learn routine.

**Smart Tachless Mode**

Smart Tachless Mode is available only if a tach signal has never been learned to the system and when activated will automatically change the Tach Mode feature in option programming to Tachless without the need to enter the feature programming mode.

- Activate the remote start. The parking lights should begin flashing 7 times indicating no tach signal has been learned.
- Within the 7 flash time period, press and hold the button.
- The system will chirp 1 time indicating the system is now in tachless mode.

**Security Trigger Zones**

If the security system has been triggered the LED will flash one of the patterns below indicating the zone.

LED FLASHES	TRIGGER ZONE
2 Flashes	Hood / Trunk Input
3 Flashes	Door Input
4 Flashes	Shock Sensor
5 Flashes	Ignition Input
6 Flashes	Tilt Sensor

**Shock Sensor Adjustment - Feature Bank 6**

- Turn the ignition ON.
- Press and hold the valet/override button.
- Within 10 seconds the system will chirp (3) three times.
- Use the valet/override button to advance through each option bank. For Shock Sensor Adjustment advance to Feature Bank 6, which is (8) eight chirps.
- Turn the ignition OFF, exit the vehicle and close all doors.
- Select Auto-Learning or Manual Adjustment:

- Option (a) Auto-Learning**
- Press and hold the transmitter button until the system emits 2 long chirps to enter Shock Sensor Auto-Learning Mode.
  - Strike the vehicle to set the level intended for the system to trigger.
  - The system will store the setting, chirp 1 time and automatically advance to step 7, Manual Adjustment and Testing.

- Option (b) Manual Adjustment**
- Press and hold the transmitter button until the system emits 1 long chirp to advance to step 7, Manual Adjustment and Testing.
- Manual Adjustment and Testing. Adjustment and testing can be performed at any time during this step. During testing 3 short chirps indicates warn-away, 1 long chirp indicates full trigger. Allow 3 sec. between each adjustment / test.
    - Full trigger – Press the transmitter button to increase sensitivity. Press the button to decrease sensitivity.
    - Warn-Away – Press the button to increase sensitivity. Press the button to decrease sensitivity.

- Programming will exit by turning the ignition ON or if there is no activity for 60 seconds. The system will flash the parking lights 3 times to confirm exit.

**Note:** Sensitivity ranges from 0 (off) – 27 (most sensitive), the default setting is 4. The system will chirp when sensitivity is raised or lowered with 2 chirps indicating the highest or lowest setting.

**Defaulting the Shock Sensor:** Enter Feature Bank 6, step 6 and press and hold the button for 3 seconds, the system will emit 1 long chirp to confirm reset and will return to step 6. Continue with step 6 or exit programming.



**Security and Remote Start Installation Quick Reference Guide**

**ca6555E**

Complete guides also available at [www.voxxuniversity.com](http://www.voxxuniversity.com)

**Feature Bank 1 - 3 Chirps Transmitter Programming**

Refer to transmitter programming.

Feature Bank 2 - 4 Chirps Security Control	1 LED Flash	2 LED Flash	3 LED Flash	4 LED Flash	5 LED Flash	6 LED Flash
1 Silent Choice	ON	OFF				
2 Door Locks	Active	Passive				
3 System Arming	Active	Passive				
4 System Notifications	Siren & Horn	Siren Only	Horn Only			
5 Alarm Duration	30 Seconds	60 Seconds				
6 Security	ON	OFF	ON w/ OEM Remote Start			
7 Anti-Hijack Mode	OFF	ON				
8 Ground While Armed Orange (-) Output	Ground While Armed	Ground While Disarmed				
9 DBI Port Protocol / Telematic Port Protocol	DBI / Voxx Telematic	ADS / Voxx Telematic	DBI / ADS Telematic	ADS / ADS Telematic		
10 Arm / Disarm Chirps	Standard: 2 - Arm 1 - Disarm	Inverted: 1 - Arm 2 - Disarm				
11 LED Indicator	ON	OFF				
12 Auto Re-lock	OFF	Lock Only	Arm & Lock			
13 Extended Parking Lights	OFF	After Unlock	After Lock	After Lock & Unlock		
14 Parking Light Relay / Trunk (-) Output	Standard	Inverted				
15 Digital Tilt Setting	3 Degrees	1 Degree	OFF			

Feature #9 has been updated to DBI Port Protocol & Telematic Port Protocol which now includes a selection for the telematic port protocol. The new default setting of **DBI / ADS Telematic** is the correct protocol setting for the ASCL6 CarLink device.

Feature Bank 3 - 5 Chirps Output Control	1 LED Flash	2 LED Flash	3 LED Flash	4 LED Flash	5 LED Flash	6 LED Flash
1 Lock / Unlock Timing	1 Sec.	3.5 Sec.	1 Sec. Lock, 2x Unlock	30 Sec. Lock, 2x Unlock	2x Lock, 1 Sec. Unlock	0.5 Sec.
2 Factory Disarm 2 Blue / Green Output	Factory Disarm	2nd Unlock	Factory Disarm 2x 500mS	Factory Disarm 350mS	Factory Disarm 500mS	Factory Disarm w/ Unlock Timing
3 Ignition Locks	OFF	Lock / Unlock	Lock Only	Unlock Only		
4 Trunk Output Timing	1 Sec.	10 Sec.	20 Sec.	Latched until IGN ON	Latched ON until Button Press	
5 Horn Output Timing	16mS	10mS	30mS	40mS	50mS	
6 Real Panic	ON	OFF				
7 AUX 1 Violet / Black Output	1 Sec.	Latched	Latched until IGN ON	Dome Light Output	Defrost Output Single Pulse After Start	Defrost Output Latched 5 Min After Start
8 AUX 2 White / Black Output	1 Sec.	Latched	Latched until IGN ON	10 Sec. w/ Arm	10 Sec. w/ Disarm	L.E.D. Output
9 AUX 3 Gray / Black Output	1 Sec.	Latched	Latched until IGN ON	10 Sec. w/ Arm	10 Sec. w/ Disarm	L.E.D. Output
10 AUX 4 Orange / Black Output	1 Sec.	Latched	Latched until IGN ON	10 Sec. w/ Arm	10 Sec. w/ Disarm	L.E.D. Output
11 AUX 5 Pink / Black Output	1 Sec.	Latched	Latched until IGN ON	10 Sec. w/ Arm	10 Sec. w/ Disarm	L.E.D. Output

Feature Bank 4 - 6 Chirps Remote Start Control	1 LED Flash	2 LED Flash	3 LED Flash	4 LED Flash	5 LED Flash	6 LED Flash
1 RS Confirmation Chirp	ON	OFF				
2 Run Time	15 Minutes	5 Minutes	10 Minutes	20 Minutes	45 Minutes	60 Minutes
3 Running Lights	Steady	Flashing				
4 Tach Mode	Tach	Tachless	Hybrid	DBI Port		
5 Voltage Level	High	Low				
6 Crank Time	1.0 Seconds	0.8 Seconds	1.5 Seconds	2.0 Seconds	4.0 Seconds	
7 Crank Output	Averaging	Preset Time				
8 Diesel Delay	OFF	10 Sec. Delay	15 Sec. Delay	20 Sec. Delay	45 Sec. Delay	
9 Remote Start Activation	2x Start	1x Start				
10 Ignition 2 Output Pink / White	Ignition	Accessory	Start / Crank			
11 Auto Start Interval	3 Hour	2 Hour				
12 Turbo Timer	OFF	1 Minute	3 Minute	5 Minute		
13 Transmission Mode	Automatic	Manual				
14 Temperature Start	OFF	14F	5F	-4F		
15 Accessory Output Orange	Accessory	Ignition	Start / Crank			
16 Pulse Outputs with Unlock	OFF	IGN, ACCY, GWR	IGN, ACCY, GWR - Pulse After Shutdown			
17 RS Door Lock Control	OFF	Unlock before Start, Lock After Start	Unlock Before Start	Lock After Start	Lock After Shutdown	

Feature Bank 5 - 7 Chirps Alternate Output Control	1 LED Flash	2 LED Flash	3 LED Flash	4 LED Flash	5 LED Flash	6 LED Flash
1 Factory Disarm Lt Green / Black Output	Pulse Before Start / During Unlock	Ground While Running	Ignition	Accessory	Pulse During Crank	Pulse Before Start / During Unlock - Uses Unlock Timing
2 Factory Arm Lt Blue Output	Pulse After Start / During Lock	Ground While Running	Ignition	Accessory	Pulse During Crank	Pulse After Start / During Lock - Uses Lock Timing
3 Pulse After Shutdown Green / White Output	Pulse After Shutdown	Ground While Running	Ignition	Accessory	Pulse During Crank	Pulse After Shutdown 2 Sec. Delay
4 Pulse During Crank Black / Yellow Output	Pulse During Crank	Ground While Running	Ignition	Accessory	Pulse Before Start / During Unlock	Pulse Before Start / During Unlock - Uses Unlock Timing

**Feature Bank 6 - 8 Chirps Shock Sensor Adjustment**

Refer to section - Shock Sensor Adjustment

**Set Up & Programming**

**Transmitter Programming - Feature Bank 1**

1. Turn the ignition ON.
2. Press and hold the valet/override button.
3. Within 10 seconds the system will chirp (3) three times.
4. Press 1 button of each transmitter you wish to program.
5. The system will respond with 1 chirp for each accepted transmitter.
6. Pressing the override button at anytime during programming will advance to the next bank.

**NOTE:** The system will exit transmitter programming after 15 seconds of inactivity.  
**NOTE:** This system has 1 button programming which programs all channels of the system.

**NOTE:** The system will hold up to 4 transmitters in memory, programming a 5th transmitter will erase the oldest transmitter in memory.

**NOTE:** This system has PTN - Programmed Transmitter Notification. Each time the ignition is turned ON, the LED will flash the number of transmitters programmed to the system.

**Transmitter programming for 2 Car Mode \*2 way LCD system only:**

1. Enter the transmitter into 2 Car Mode. (Refer to transmitter operation in the owners manual for 2 car operation)
2. Follow the steps above for transmitter programming.

**NOTE:** 2 car mode requires an additional security system installed in a second vehicle.

**Manual Feature Programming - Feature Bank 2, 3, 4, & 5**

1. Turn the ignition ON.
2. Press and hold the valet/override button.
3. Within 10 seconds the system will chirp (3) three times.
4. Use the valet/override button to advance through each option bank. For feature programming advance to Feature Bank 2, 3, 4 or 5, which is (4) four, (5) five, (6) six and (7) seven chirps.
5. Use the transmitter  button to scroll through the selections in each feature bank, the system will chirp to match the feature number.
6. Press the transmitter  button or the vehicle brake pedal to change the desired feature. The LED will flash indicating the changed feature.

**Defaulting All Features:** Pressing the  button anytime while in any of the feature banks will default all features and return you to feature bank 2 - 4 chirps.

**NOTE:** The system will remain in feature programming mode as long as the ignition is on, there is no time limit. To exit programming turn the IGNITION OFF.

**PC Based Feature Programming / Firmware Updates**

When using the NEW Code Alarm Utility App along with a VEPROG Programming tool you may program selectable features or update the firmware of this module. Refer to full installation guide for additional detail.

1. To download the Code Alarm Utility App visit the Voxx University website at voxxuniversity.com (registration/login required).
2. Select VOXXTECH and locate the utility app under the heading Software Downloads.
3. The Code Alarm Utility App download includes both the CA Utility app and necessary VEPROG drivers.
4. Install both items before attempting to update modules.



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