Remote Start / Power Harness (6-Pin)
Replacement Part # 4120110

PINK	IGNITION 1 (+)
RED	BATTERY 12V (+)
PINK/WHITE	IGNITION 2 (+) Ⓟ
ORANGE	ACCESSORY 1 (+) Ⓟ
RED/WHITE	BATTERY 12V (+)
PURPLE	STARTER OUTPUT - MOTOR SIDE (+)

Notification Harness (4-Pin)
Replacement Part #4120145

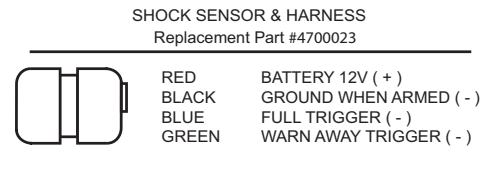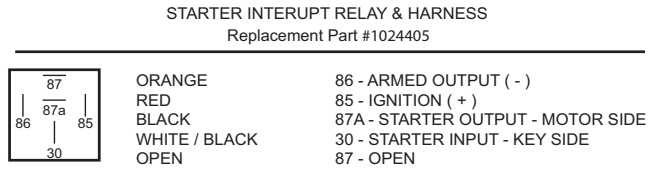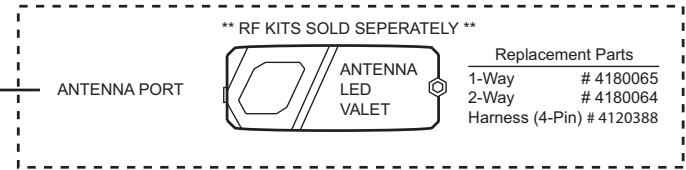|	
WHITE/RED	PARKING LIGHT INPUT
WHITE	PARKING LIGHT OUTPUT Ⓟ
BLACK	GROUND
BROWN	SIREN OUTPUT (+)

FLCART HARNESS PORT

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.

** RF KITS SOLD SEPERATELY **

ANTENNA
LED
VALET

Replacement Parts	
1-Way	# 4180065
2-Way	# 4180064
Harness (4-Pin)	# 4120388

ANTENNA PORT

SHOCK SENSOR PORT

CODE ALARM
CASECRS

Replacement Part # 4360698

Replacement Part #4120389

Input / Output Harness (22-Pin)

BLUE/BLACK	START STATUS / ACTIVE OUTPUT (-)
PURPLE/WHITE	TACH INPUT
GRAY/RED	PARKING BRAKE INPUT (-) Ⓟ
GREEN	DOOR TRIGGER INPUT (-)
BLUE/WHITE	INSTANT TRIGGER INPUT (-) Ⓟ
WHITE/BLUE	EXTERNAL START INPUT (-)
PURPLE	DOOR TRIGGER INPUT (+)
BROWN/RED	BRAKE INPUT (+)
GRAY	HOOD INPUT (-)
PINK/BLACK	AUX 5 OUTPUT (-) Ⓟ
GRAY/BLACK	AUX 3 OUTPUT (-) Ⓟ
ORANGE	GROUND WHEN ARMED (-) Ⓟ
VIOLET/BLACK	AUX 1 OUTPUT (-) Ⓟ
RED/WHITE	TRUNK RELEASE OUTPUT (-) Ⓟ
BROWN/BLACK	HORN OUTPUT (-)
LT GREEN/BLACK	FACTORY DISARM / PULSE BEFORE START (-) Ⓟ
LT BLUE	FACTORY ARM / PULSE AFTER START (-) Ⓟ
GREEN/WHITE	PULSE AFTER SHUTDOWN (-) Ⓟ
BLACK/YELLOW	PULSE DURING CRANK (-) Ⓟ
BLUE/GREEN	FACTORY DISARM 2 / 2ND UNLOCK (-) Ⓟ
ORANGE/BLACK	AUX 4 OUTPUT (-) Ⓟ
WHITE/BLACK	AUX 2 OUTPUT (-) Ⓟ

FLCART PORT

Door Lock Harness (3-Pin)
Replacement Part #1031423

BLUE	UNLOCK (-) Ⓟ
OPEN	
GREEN	LOCK (-) Ⓟ

TELEMATICS PORT

DBI PORT

FLCART PROGRAMMING PORT

STARTER INTERUPT RELAY & HARNESS
Replacement Part #1024405

ORANGE	86 - ARMED OUTPUT (-)
RED	85 - IGNITION (+)
BLACK	87A - STARTER OUTPUT - MOTOR SIDE
WHITE / BLACK	30 - STARTER INPUT - KEY SIDE
OPEN	87 - OPEN

SHOCK SENSOR & HARNESS
Replacement Part #4700023

RED	BATTERY 12V (+)
BLACK	GROUND WHEN ARMED (-)
BLUE	FULL TRIGGER (-)
GREEN	WARN AWAY TRIGGER (-)

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:
1. Turn the ignition key to the ON position.
2. Press and release the valet/override button 3 times.
3. Immediately turn the ignition key OFF.
4. Press and hold the valet/override button, then start the vehicle using the key.
5. When the unit senses the tach signal, the parking lights will begin to flash.
6. Allow the vehicle to settle to a normal idle speed.
7. 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:
1. Start the vehicle's engine leaving the ignition key in the On/Run position.
2. Press and hold the brake pedal.
3. 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.
4. When the unit senses the tach signal, the parking lights will begin to flash.
5. Allow the vehicle to settle to a normal idle speed.
6. 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 and connect the PURPLE/WHITE wire to 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.

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

Adjusting the Shock Sensor

1. Increase sensitivity by turning the adjustment dial clockwise.
2. Decrease sensitivity by turning the adjustment dial counter clockwise.

Dome Light Delay / Theater Dimming

When the Dome Light Delay is set to **"Program Custom Time"** in feature programming (this is the default setting) the system can be programed to delay arming after the lock button is pressed for vehicles with a dome light delay or theater dimming feature. Once programed the system will 'learn' the timing of the dome light delay (60 second max) and add 2 seconds before arming.

1. Close all doors with ignition off.
2. Using the transmitter press LOCK, UNLOCK, LOCK ,UNLOCK, LOCK , UNLOCK, LOCK. The LED will light solid to indicate the system has entered DOME DELAY LEARN MODE.
3. Immediately OPEN then CLOSE the door WITHOUT disarming the system. The system will then monitor the door trigger wire. Once the dome light turns off, the system will then add 2 seconds and then exit the learning mode.
4. The LED will begin to flash indicating the system has exited the learning mode and is now armed.

Note: To program a custom delay time Feature Bank 2, Feature 16, "Dome Light Delay: Preset Time or Programmable, must be set to "OFF/Program Custom Time".

Defaulting the Dome Light Delay: Turn the ignition ON then OFF 3 times then press and hold the valet button for 5 seconds, the system will chirp 1 time indicating the learned delay time has been cleared.

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

CODE ALARM

PROFESSIONAL SERIES

Security and Remote Start Installation Quick Reference Guide

caSECRS

This guide is a reference for module firmware version 5.0 or higher

Complete guides also available at www.voxxuniversity.com

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 Sensor	**N/A**					
16 Domelight Delay: Preset Time or Programmable	**OFF / Program Custom Time**	15 Seconds	30 Seconds	45 Seconds	60 Seconds	120 Seconds
17 Instant Trigger Input Blue / White (-) Input	**Full Trigger**	Pre-Warn / Warn-Away	Valet Button Input			

Programming Update Notice: Firmware version 5.0 or later.

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	5 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	0F	-14F
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	
18 Parking Brake Input Gray / Red (-) Input	**Parking / Hand Brake**	Foot Brake				

Programming Update Notice: Firmware version 5.0 or later.

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

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.

Technical Support (800) 421-3209
or visit
www.voxxuniversity.com