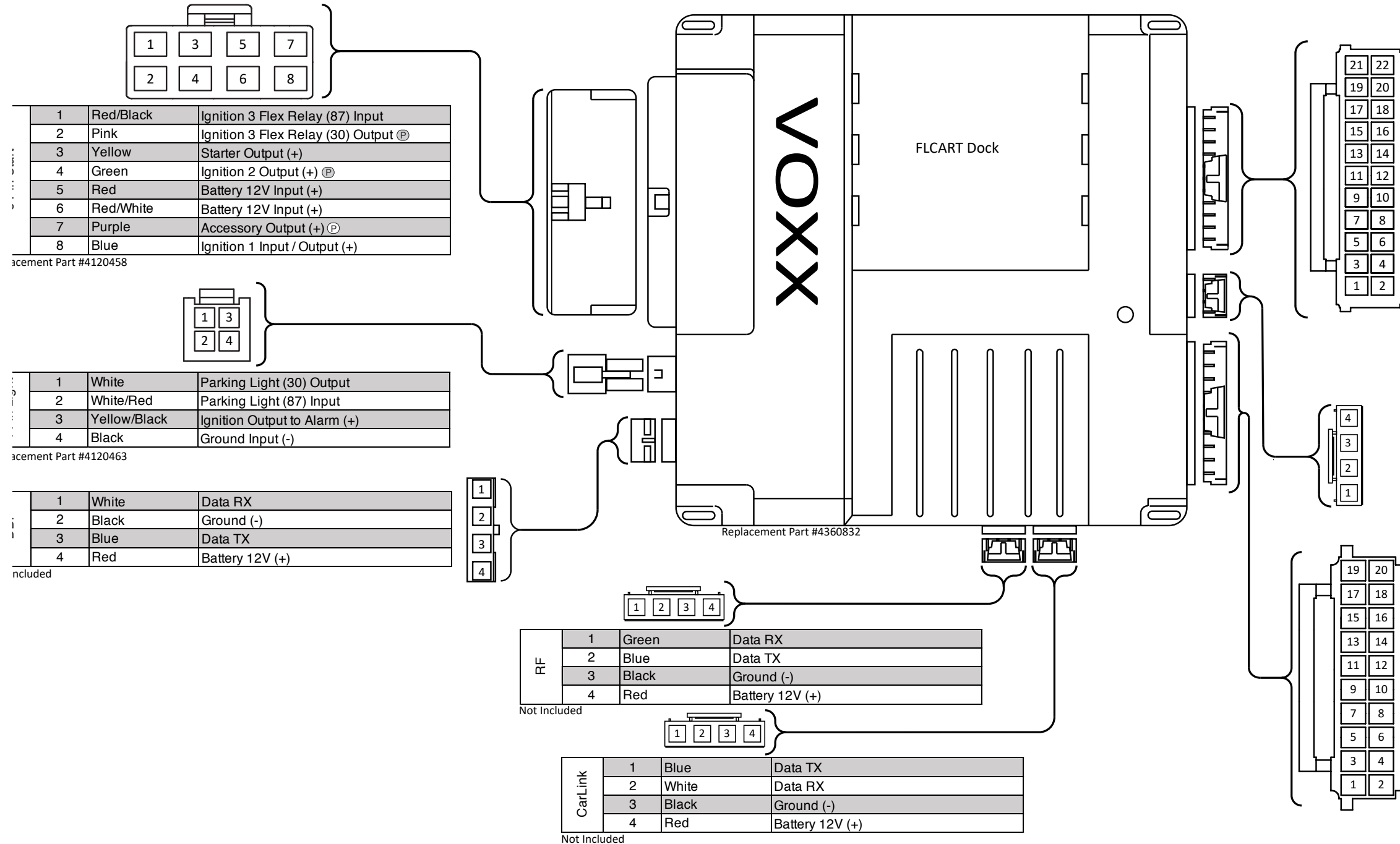




# APSRs

## Remote Start w/Keyless Entry System Layout

**Important Update**  
 The default Data Port Protocol of this system is ADS. If using an FLCAN or other external integration module be sure to choose iDatalink 2-Way when flashing.  
 This system will also support DBI. This will require programming Feature Bank 2, Feature 15 to DBI.



22	Green	Unlock Output (-) (NOC 11)
21	Dk. Blue	Trunk Output (-) (NOC 9)
20	Red	Lock Output (-) (NOC 10)
19	Green/Lt. Blue	Ch. 4 AUX Output (-) (NOC 8)
18	Black/White	Horn Output (-)
17	Lt. Blue/Green	Ch. 5 AUX Output (-) (NOC 7)
16	Red/Black	2nd Unlock Output (-) (NOC 12)
15	Black/Lt. Green	Factory Arm Output (-) NOC 6)
14	Brown/Black	Brake Input (+)
13	Black/Blue	Factory Disarm Output (-) (NOC 5)
12	Dk. Blue/Black	External Activation Input (-)
11	Black/Red	Pulse After Shutdown Output (-) (NOC 4)
10	Orange/Black	Parking Brake Input (-)
9	Black/Yellow	Pulse During Crank Output (-) (NOC 3)
8	Green/Yellow	Diesel Glow Plug Input (+)
7	Green/White	DomeLight Output (-) (NOC 2)
6	Purple/Brown	Door Trigger Input (- / +)
5	Lt. Blue	Remote Start Status Output (-) (NOC 1)
4	Green/Orange	Tach Input (-)
3	Gray/Black	Hood Input (-)
2	Lt. Green	Trunk Trigger Input (-)
1	Orange	Starter Kill Relay / Anti-Grind Output (-)

WebLink	4	Red	Battery 12V (+)
	3	Black	Ground (-)
	2	White	Data RX
	1	Blue	Data TX

Not Included

This Harness is included with the FLCART.  
 For Wire Information and Diagram Please Refer to Vehicle Specific FlashLogic Install Guide.  
 Visit [www.FlashLogic.com](http://www.FlashLogic.com) for More Information.  
 Not Included

Compatible RF Kits	
PE1BZ	PE2LEDZ
PE1BZLR	PE2LCDZ
PE1BTWZ	PE1M2LEDZ
PE5BZ	PE1M2LCDZ



# APSRs

Keyless / Remote Start

## Quick Installation Guide

For Complete Installation Guide and Technical Support

Visit

[www.voxxuniversity.com](http://www.voxxuniversity.com)

Or Call

1-800-225-6074

REV. 1

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## Notifications

### Remote Start

If the remote start fails to start the vehicle, the system will flash the vehicle parking lights to indicate the cause.

1	Runtime Expired
2	Remote Shutdown
3	Brake On
4	Manual Mode
5	Hood Open
6	Low / No Tach
7	Tach Programming
8	High Tach

### Chirp Delete

System ARM/DISARM chirps can be toggled ON or OFF without entering the Feature Bank programming.

- Turn the ignition key ON/OFF.
- Press and release the valet button 3x.

The system will respond with one (1) chirp for ON and two (2) Chirps for OFF. This feature will not affect alarm trigger or programming.

### User Programmable LED

System LED notifications can be turned ON or OFF without entering Feature Bank programming.

- Turn the ignition key ON/OFF, ON/OFF.
- Press and hold valet button for five (5) seconds.

The LED will flash 1x for ON, 2x for OFF. This feature will not affect LED flash during programming.

## Remote Programming

The APSRS does not include an RF remote kit. The RF remote kit Includes two (2) remotes, one (1) antenna, and one (1) cable. When added, remotes must be programmed to the system. Remote Programming is located in Feature Bank 1. To enter Remote Auto Programming:

- Turn the ignition key to ON.
- Press and release the valet button 3x. System will beep and flash the parking lights 1x.

Press the lock button on each remote. The system will beep 1x to indicate the remote has been programmed. If programming one (1) button remotes, press the Start button. Only primary remote functions are auto programmed. This Includes Lock, Unlock, and Trunk/Start.

If using AUX output control, you must manually program the AUX output channels to the remote. Please see the complete installation guide for manual remote programming instruction.

Note: If programming 2-Way remotes, wait for the remote to beep before programming additional remotes. This beep is confirmation that a 2-Way response has been received from the main module.

## Feature Programming

The APSRS Feature Banks can be programmed by using the valet button and remote. To enter Feature Bank programming:

- Turn the ignition key to ON.
- Press and release the valet button 3x. System will beep and flash lights 1x for Feature Bank 1, Remote Programming.
- Cycle ignition key OFF/ON. System will beep and flash lights 2x for Feature Bank 2.
- Press valet button to cycle features. LED will flash to display feature number.
- Press lock button to cycle options. System will beep to indicate option number.
- Cycle ignition key OFF/ON. System will beep and flash lights 3x for Feature Bank 3.
- Press valet button to cycle features. LED will flash to display feature number.
- Press lock to cycle options. System will beep to indicate option Number.

To exit Programming cycle ignition key OFF and wait ten (10) seconds. The System will also automatically exit programming after sixty (60) seconds of no activity.

## Tach Programming

The installer must manually configure the Engine Confirmation method in Feature Bank 3, Feature 5. The default method is "Tach". This method requires using the Green/Orange tach input wire. When using the default "Tach" method, the vehicle tach rate must be programmed. To enter tach rate programming:

- Turn the ignition key ON.
- Press and release the valet button 3x.
- Turn the ignition key OFF.
- Press and hold valet button.
- While holding valet button, start the engine using the key.
- Hold the valet button for approximately ten (10) seconds. If connected to the vehicle Tach source, the system will flash the parking lights 1x every second.
- Release the valet button. The system will turn on the parking lights for two (2) seconds to indicate the tach rate is programmed.

The tach rate can also be programmed without the use of a valet button. This is helpful when using the OEM remote of CarLink system to control this module. To program the tach rate without a valet button:

- Turn the ignition key to the ON position and start the vehicle's engine.
- Wait for Engine RPM to lower to a normal idle.
- Press and hold the vehicle's brake pedal.
- Press the LOCK button on the OEM remote or the Carlink App.

The vehicle's parking lights will flash 7x to indicate the tach signal has been learned. If the parking lights do not flash, locate another tach source and repeat steps 1 - 4 above.

**Note:** Programming tach signal via OEM or Telematics control is only available on Firmware v1.47 or Higher.

The Feature Banks below can also be programmed using the FlashLogic Weblink or Weblink Mobile.

Please visit [www.FlashLogic.com](http://www.FlashLogic.com) for more detail.

Feature Bank 2		Options					
		1 Chirp	2 Chirp	3 Chirp	4 Chirp	5 Chirp	6 Chirp
1	Lock / Unlock Function	500ms	3.5sec	500ms L, DBL UL	DBL L, 500ms UL	DBL L, DBL UL	500ms L, 350ms UL
2	Ignition Lock	OFF	ON				
3	Ignition Unlock	OFF	Unlock All	Unlock Driver			
4	Exterior Illumination	OFF	With Arm	With Disarm	With Arm & Disarm		
5	Auto Relock	OFF	ON				
6	Auto Arming / Locking	NA					
7	Notification Sound	NA					
8	Horn Timing	16ms	30ms	40ms	50ms	10ms	
9	Valet Override Method	NA					
10	Driver Priority Unlock	OFF	ON				
11	Silent Choice	OFF	From Transmitter	OEM Style			
12	Security Profile	OFF	OEM Security	ALL ON w/ OEM RS			
13	Door Trigger Input	Negative	Positive				
14	Park Light / Trunk Swap	OFF	ON				
15	Data Port Protocol	ADS	DBI				
Feature Bank 3		Options					
		1 Chirp	2 Chirp	3 Chirp	4 chirp	5 Chirp	6 Chirp
1	Defrost Output	Pulsed	10min	RS Runtime			
2	RS Start Notification	ON	Off				
3	RS Runtime	5min	10min	15min	20min	45min	60min
4	RS Parking Lights	Steady	Flashing				
5	Engine Confirmation	Tach	Voltage	Data	Hybrid		
6	Voltage Level	>0.5v B4 Start	<0.5v B4 Start				
7	Ignition 2 Output	Ignition	Accessory	Start			
8	Ignition 3 Output	Ignition	Accessory	Start			
9	Accessory Output	Accessory	Ignition	Start			
10	Transmission	Auto	Manual				
11	Max Crank Time	0.8sec	1.0sec	1.5sec	2.0sec	3.0sec	4.0sec
12	Diesel Delay	OFF	Diesel 10	Diesel 15	Diesel 20	Diesel 30	
13	Temperature Start	OFF	ON				
14	Crank Duration	Averaging	Preset				
15	RS Shock Override	NA					
16	Turbo Timer	OFF	3min	5min	10min		
17	Start Activation	Two Press	One Press	Three Press			
18	RS Lock Function	No Change	UL Before L After	UL Before Start	Lock After Start		
19	Factory Disarm Output	Single Pulse	Double Pulse	350ms	500ms	800ms	Same As Bank 2, F1
20	Additional Unlock Pulse	No Pulse	IGN, ACC, GWR	IGN,ACC,GWR,PASD			

## OEM Security

The APSRS can provide OEM level security. The system will monitor all entry zones (Door, Hood, And Trunk). When an entry zone is detected the system will beep the vehicle horn and flash the parking lights. This feature must be activated in Feature Bank 2, Feature 12.

### Operation

To arm the system, press lock function on the remote.  
To disarm the system, press the unlock function on the remote.

### Valet Override Procedure

To disarm the system without the use of a remote, turn the ignition key to ON and press the valet button 1x.

## Data Protocol Selection

The default data port protocol of this model is ADS (iDatalink 2-Way). This model is capable of detecting the correct data port protocol (ADS or DBI) and automatically configuring Feature Bank 2; Feature 18. To initialize the detection procedure:

- Press and hold the valet button.
- Cycle the vehicle's Ignition ON/OFF 2x.
- Release the valet button.

The system will automatically detect and set the correct data port protocol, ADS or DBI.

**Note:** This feature is only available on module firmware v2.00 or higher.

## Negative Output Control (NOC)

Negative output control allows any NOC to be programmed for any one of nineteen (19) options. This feature is accessible via FlashLogic Weblink or Weblink Mobile.

Lock	Pulse After Shutdown
Unlock	Domelight
2nd Unlock	Headlight
Trunk	Defrost
Remote Start Status	LED
Ignition	Ch. 4 AUX
Accessory	Ch. 5 AUX
Factory Arm	Ch. 6 AUX
Factory Disarm	Ch. 7 AUX
Pulse During Crank	

## AUX Output Control

Any AUX output can configured using the AUX Control Menu. This feature is only accessible via FlashLogic Weblink or Weblink Mobile.

1 Second Pulse	30 Second Pulse
5 Second Pulse	Push & Hold
10 Second Pulse	Latch ON/OFF
15 Second Pulse	Latch 10min w/ RS
20 Second Pulse	Latch Runtime