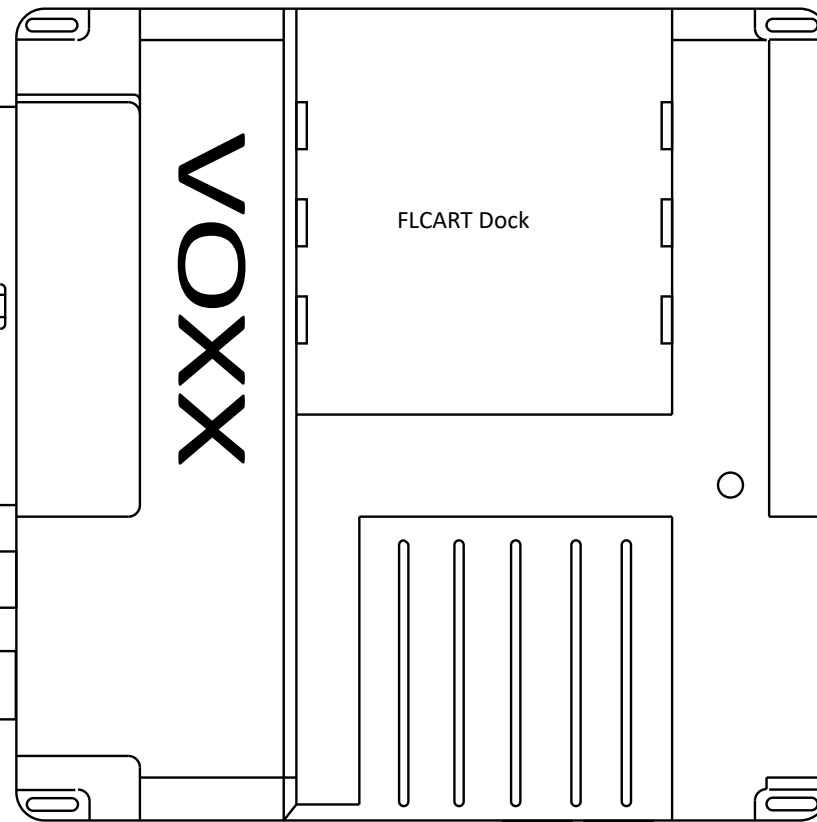
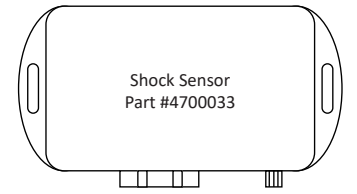
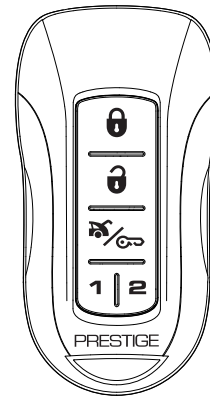
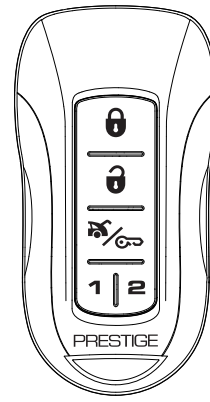


# PRESTIGE

## APS787Z

Security and Remote Start System Layout



8 Pin Start	1	Red/Black	Ignition 3 Flex Relay (87) Input
	2	Pink	Ignition 3 Flex Relay (30) Output Ⓟ
	3	Yellow	Starter Output (+)
	4	Green	Ignition 2 Output (+) Ⓟ
	5	Red	Battery 12V (+)
	6	Red/White	Battery 12V (+)
	7	Purple	Accessory Output (+) Ⓟ
	8	Blue	Ignition 1 Input / Output (+)

Replacement Part #4120458

4 Pin Light	1	White	Parking Light (30) Output
	2	White/Red	Parking Light (87) Input
	3	White/Black	Siren Output (+)
	4	Black	Ground Input (-)

Replacement Part #4120462

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

Not Included

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

Not Included

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

Not Included

Starter Kill	85	Red	Ignition Input (+)
	86	Orange	Starter Kill Input (-)
	87A	Black	Starter Output - Motor Side
	30	Black/White	Starter Input - Key Side

Replacement Part #4360828

Shock	4	Red	Battery 12V (+)
	3	Black	Data TX
	2	Blue	Warn Away
	1	Green	Full Trigger

Replacement Part #4120459

22 Pin Input/Output	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 (-)

Replacement Part #4120457

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

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

**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.



# APS787Z

Security and Remote Start

## Quick Installation Guide

For Complete Installation Guide and Technical Support  
Please Visit  
[www.voxxuniversity.com](http://www.voxxuniversity.com)  
Or Call  
1-800-225-6074

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## Notifications

### Alarm

When the alarm is triggered the system will provide feedback to the user. Upon disarm, the system will beep 4x and flash the LED to indicate the Alarm Trigger Zone.

1	Shock
2	Trunk / Hood
3	Door

### 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 APS787Z includes two (2) programmed remotes. If required, additional remotes can 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, the remote channel must be manually programmed to the system AUX output. Please see the complete installation guide for manual remote programming instruction.

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

## Feature Programming

The APS787Z 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.

## 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.

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	<b>500ms</b>	3.5sec	500ms L, DBL UL	DBL L, 500ms UL	DBL L, DBL UL	500ms L, 350ms UL
2	Ignition Lock	<b>OFF</b>	ON				
3	Ignition Unlock	<b>OFF</b>	Unlock All	Unlock Driver			
4	Exterior Illumination	<b>OFF</b>	With Arm	With Disarm	With Arm & Disarm		
5	Auto Relock	<b>OFF</b>	Auto Lock Only	Auto Lock & Arm			
6	Auto Arming / Locking	<b>OFF</b>	Auto Arm Only	Auto Lock & Arm			
7	Notification Sound	<b>Both</b>	Siren	Horn			
8	Horn Timing	<b>16ms</b>	30ms	40ms	50ms	10ms	
9	Valet Override Method	<b>Valet</b>	Custom Code	Stand Alone Valet			
10	Driver Priority Unlock	<b>OFF</b>	ON				
11	Silent Choice	<b>OFF</b>	From Transmitter	OEM Style			
12	Security Profile	<b>All On</b>	Doors off	Hood / trunk Off	All Off	All On w/ OEM RS	
13	Door Trigger Input	<b>Negative</b>	Positive				
14	Park Light / Trunk Swap	<b>OFF</b>	ON				
15	Data Port Protocol	<b>ADS</b>	DBI				

Feature Bank 3	Options						
	1 Chirp	2 Chirp	3 Chirp	4 chirp	5 Chirp	6 Chirp	
1	Defrost Output	<b>Pulsed</b>	10min	RS Runtime			
2	RS Start Notification	<b>ON</b>	OFF				
3	RS Runtime	<b>5min</b>	10min	15min	20min	45min	60min
4	RS Parking Lights	<b>Steady</b>	Flashing				
5	Engine Confirmation	<b>Tach</b>	Voltage	Data	Hybrid		
6	Voltage Level	<b>&gt;0.5v B4 Start</b>	<0.5v B4 Start				
7	Ignition 2 Output	<b>Ignition</b>	Accessory	Start			
8	Ignition 3 Output	<b>Ignition</b>	Accessory	Start			
9	Accessory Output	<b>Accessory</b>	Ignition	Start			
10	Transmission	<b>Auto</b>	Manual				
11	Max Crank Time	<b>0.8sec</b>	1.0sec	1.5sec	2.0sec	3.0sec	4.0sec
12	Diesel Delay	<b>OFF</b>	Diesel 10	Diesel 15	Diesel 20	Diesel 30	
13	Temperature Start	<b>OFF</b>	ON				
14	Crank Duration	<b>Averaging</b>	Preset				
15	RS Shock Override	<b>Shunt until Clear</b>	Shunt RS Cycle	Shunt From TX			
16	Turbo Timer	<b>OFF</b>	3min	5min	10min		
17	Start Activation	<b>Two Press</b>	One Press	Three Press			
18	RS Lock Function	<b>No Change</b>	UL Before L After	UL Before Start	Lock After Start		
19	Factory Disarm Output	<b>Single Pulse</b>	Double Pulse	350ms	500ms	800ms	Same As Bank 2, F1
20	Additional Unlock Pulse	<b>No Pulse</b>	IGN, ACC, GWR	IGN,ACC,GWR,PASD			

## Dome Delay Programming

This system can be programmed to ignore the vehicle's theater dimming dome light. This feature will be used when connecting the door trigger input to the dome light circuit for alarm trigger. Note: Vehicle windows should be open to prevent accidental locking of keys in the vehicle.

Start with all doors closed and the vehicle dome light off.

- Press Lock, Unlock, Lock, Unlock, Lock, Unlock, Lock. LED will light solid.
- Open and close the driver door.

The system will monitor the dome light circuit. When the dome light turns off the system will set the delay time and add an additional two (2) seconds.

Dome Delay Reset

- Key ON/OFF, ON/OFF, ON/OFF.
  - Press and hold valet button for five (5) seconds.
- The system will beep 1x to indicate reset is complete.

## Shock Sensor

The shock sensor should be mounted to a solid surface in the center of the vehicle. Once mounted the shock sensor will require adjustment.

To increase sensitivity: Turn adjustment dial clockwise.  
To decrease sensitivity: Turn adjustment dial counter clockwise.

To test sensitivity, strike the vehicle with an open palm. Adjust the dial to provide coverage to as much of the vehicle as possible.

## 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 be 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