



Audiovox Electronics Corp.

# INSTALL GUIDE

## FLC-AL(RS)-CH4-EN

# CH4

**AVAILABLE FOR: FLCAN**

*Rev. Date: February 13, 2013*

*Doc. No.: ##10836##*

PLEASE VISIT [WWW.FLASH-IT.COM](http://WWW.FLASH-IT.COM) FOR COMPLETE PRODUCT DETAILS

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CHRYSLER

Jeep

 DODGE

**NOTICE:** The manufacturer will accept no responsibility for any electrical damage resulting from improper installation of this product, be that either damage to the vehicle itself or to the installed device. This device must be installed by a certified technician. This guide has been written for properly trained technicians; a certain level of skill & knowledge is therefore assumed. Please review the Installation Guide carefully before beginning any work.

### INSTALL TYPE SELECTION

MAKE	MODEL	YEAR	INSTALL TYPE	FEATURES															
				DATA IMMOBILIZER BYPASS	DOWNLOADABLE SOFTWARE	RS232 COMMUNICATION	2-WAY COMPATIBILITY	PRIORITY UNLOCK	DOOR LOCK	DOOR UNLOCK	ARM OEM ALARM	DISARM OEM ALARM	TRUNK/HATCH RELEASE	POWER LIFTGATE	POWER SLIDING DOOR (L)	POWER SLIDING DOOR (R)	DATA/MUX IGNITION CTRL	SECURE TAKEOVER	PARKING LIGHT CTRL
CHRYSLER	300	08-10	1	•	•	•	•	•	•	•	•	•	•				•	•	•
	300 Limited	08-10	1	•	•	•	•	•	•	•	•	•	•				•	•	•
	300c	08-10	1	•	•	•	•	•	•	•	•	•	•				•	•	•
	300c SRT8	08-10	1	•	•	•	•	•	•	•	•	•	•				•	•	•
	Town & Country	08-13	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DODGE	Caravan	08-10	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Challenger SXT	08-13	1	•	•	•	•	•	•	•	•	•	•				•	•	•
	Challenger R/T	08-13	1	•	•	•	•	•	•	•	•	•	•				•	•	•
	Challenger SRT8	08-13	1	•	•	•	•	•	•	•	•	•	•				•	•	•
	Charger SE	08-10	1	•	•	•	•	•	•	•	•	•	•				•	•	•
	Charger R/T	08-10	1	•	•	•	•	•	•	•	•	•	•				•	•	•
	Charger SRT8	08-10	1	•	•	•	•	•	•	•	•	•	•				•	•	•
	Durango	11-13	1	•	•	•	•	•	•	•	•	•	•				•	•	
	Grand Caravan	08-13	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Journey	09-10	1	•	•	•	•	•	•	•	•	•	•				•	•	
	Magnum	08	1	•	•	•	•	•	•	•	•	•	•				•	•	•
	RAM 1500	09-12	1	•	•	•	•	•	•	•	•	•	•				•	•	
	RAM 2500	10-12	1	•	•	•	•	•	•	•	•	•	•				•	•	
	RAM 3500	10-12	1	•	•	•	•	•	•	•	•	•	•				•	•	
	JEEP	Commander	08-10	1	•	•	•	•	•	•	•	•	•	•				•	•
Grand Cherokee		08-13	1	•	•	•	•	•	•	•	•	•	•				•	•	
C/V		10-13	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
RAM	1500	10-12	1	•	•	•	•	•	•	•	•	•	•				•	•	
	2500	10-12	1	•	•	•	•	•	•	•	•	•	•				•	•	
	3500	10-12	1	•	•	•	•	•	•	•	•	•	•				•	•	
VOLKSWAGEN	Routan	09-12	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	

**NOTE**

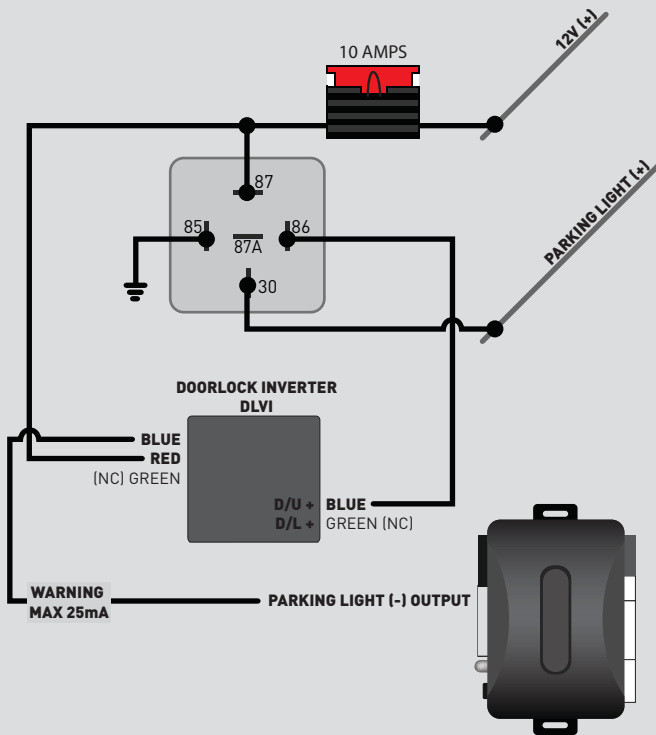
I Install type 1 requires a T-Harness to complete the installation.

II T-Harness sold separately.

## PARKING LIGHT NOTE

### POSITIVE PARKING LIGHT (+)

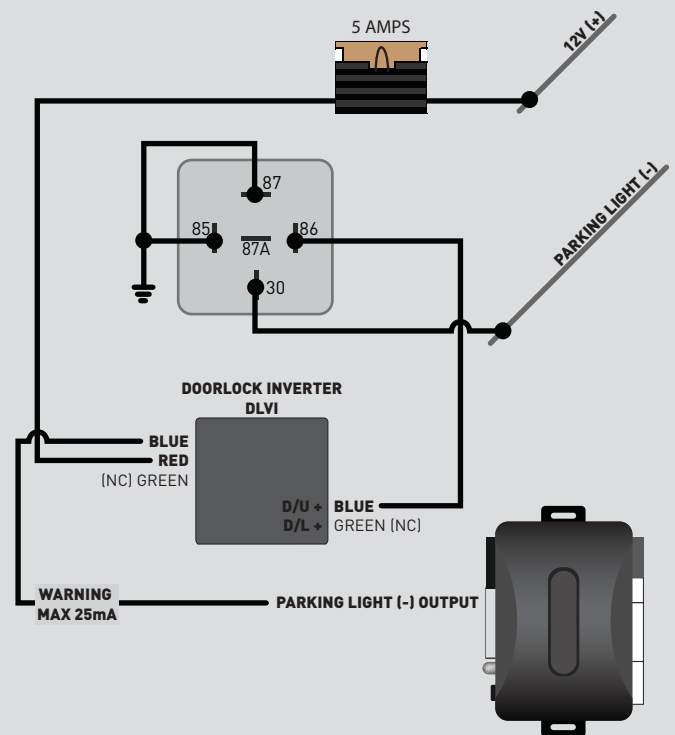
- 1 Complete the installation as shown in the wiring diagram.
- 2 Make the following connections to control the positive parking light (+).



- 3 Follow the module programming procedure.

### NEGATIVE PARKING LIGHT (-)

- 1 Complete the installation as shown in the wiring diagram.
- 2 Make the following connections to control the negative parking light (-).



- 3 Follow the module programming procedure.

### TYPE 1 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
CHRYSLER	300	08-10	Parking Light	D2242	Black	10 pin	1	White/Brown	(MUX)	Switch	~
	300 Limited	08-10	Parking Light	D2242	Black	10 pin	1	White/Brown	(MUX)	Switch	~
	300C	08-10	Parking Light	D2242	Black	10 pin	1	White/Brown	(MUX)	Switch	~
	300 SRT8	08-10	Parking Light	D2242	Black	10 pin	1	White/Brown	(MUX)	Switch	~
	Town & Country	08-10	Parking Light	D2242	Black	10 pin	1	White/Brown	(MUX)	Switch	~
	Town & Country	11-13	Parking Light	D2242	Black	6 pin	3	White/Green	(MUX)	Switch	~
DODGE	Caravan	08-10	Parking Light	D2242	Black	10 pin	1	White/Brown	(MUX)	Switch	~
	Challenger R/T	08-13	Parking Light	D2242	Black	10 pin	1	White/Brown	(MUX)	Switch	~
	Challenger SXT	08-13	Parking Light	D2242	Black	10 pin	1	White/Brown	(MUX)	Switch	~
	Challenger SRT8	08-13	Parking Light	D2242	Black	10 pin	1	White/Brown	(MUX)	Switch	~
	Charger SE	08-10	Parking Light	D2242	Black	10 pin	1	White/Brown	(MUX)	Switch	~
	Charger R/T	08-10	Parking Light	D2242	Black	10 pin	1	White/Brown	(MUX)	Switch	~
	Charger SRT8	08-10	Parking Light	D2242	Black	10 pin	1	White/Brown	(MUX)	Switch	~
	Durango	11-13	Parking Light	D2242	Black	6 pin	1	White/Green	(MUX)	Switch	~
	Grand Caravan	08-10	Parking Light	D2242	Black	10 pin	1	White/Brown	(MUX)	Switch	~
	Grand Caravan	11-13	Parking Light	D2242	Black	6 pin	3	White/Green	(MUX)	Switch	~
	Journey	09-10	Parking Light	~	~	~	~	White/Violet	(+)	Driver kick panel	~
	Magnum	08	Parking Light	D2242	Black	10 pin	1	White/Brown	(MUX)	Switch	~
	Ram 1500	09-12	Parking Light	D2242	Black	10 pin	1	White	(MUX)	Switch	~
	Ram 2500	10-12	Parking Light	D2242	Black	10 pin	1	White	(MUX)	Switch	~
	Ram 3500	10-12	Parking Light	D2242	Black	10 pin	1	White	(MUX)	Switch	~
JEEP	Commander	08-10	Parking Light	~	~	~	1	Relay #7	(-)	Power module in engine compartment	~
	Grand cherokee	08-13	Parking Light	~	~	~	1	Relay #7	(-)	Power module in engine compartment	~
RAM	C/V	10	Parking Light	D2242	Black	10 pin	1	White/brown	(MUX)	Switch	~
	C/V	11-13	Parking Light	D2242	Black	6 pin	1	White/green	(MUX)	Switch	~
	1500	10-12	Parking Light	D2242	Black	10 pin	1	White	(MUX)	Switch	~
	2500	10-12	Parking Light	D2242	Black	10 pin	1	White	(MUX)	Switch	~
	3500	10-12	Parking Light	D2242	Black	10 pin	1	White	(MUX)	Switch	~
VOLKSWAGEN	Routan	09-12	Parking Light	D2242	Black	10 pin	1	White/brown	(MUX)	Switch	~

### TYPE 1 - WIRING DIAGRAM



REFER TO ASSEMBLY FOR PROPER CONNECTIONS AND MATCH EACH LETTER ACCORDINGLY

RF KIT SOLD SEPARATELY  
SEE DISTRIBUTOR FOR  
AVAILABLE MODELS

E

PARKING LIGHT CONNECTION

IF VEHICLE IS EQUIPPED WITH (+) OR (-) PARKING LIGHT READ: PARKING LIGHT NOTE

OR

IF VEHICLE IS EQUIPPED WITH MUX PARKING LIGHT CONNECT TO VEHICLE

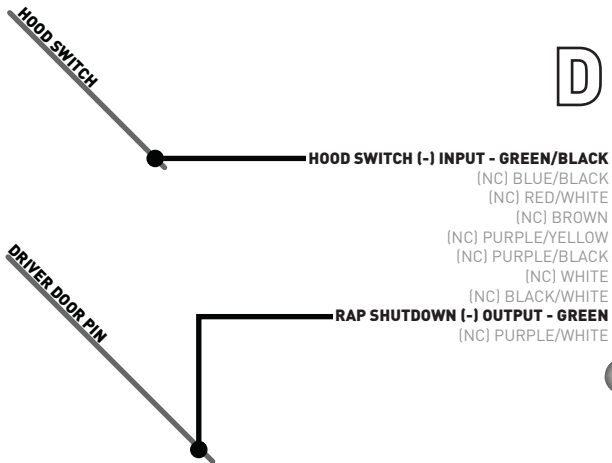
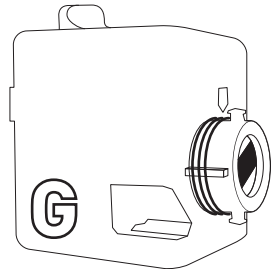
D

A

YELLOW/BLACK  
YELLOW/RED (NC)  
YELLOW

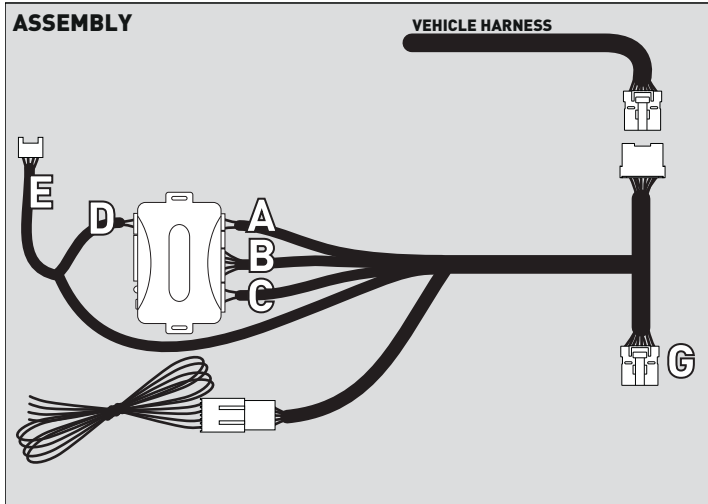
B

C



FLCHH (OLD)  
ASSEMBLY

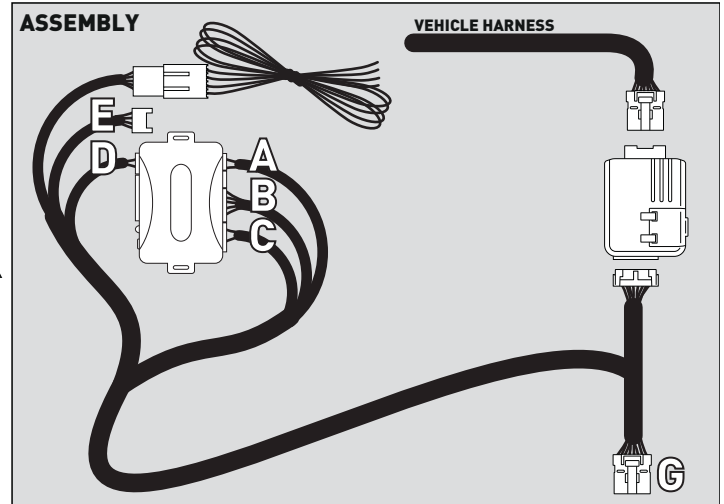
REQUIRED - SOLD SEPARATELY




OR

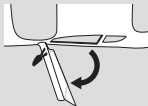
FLCHH (NEW)  
ASSEMBLY


REQUIRED - SOLD SEPARATELY



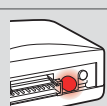
## MODULE PROGRAMMING PROCEDURE

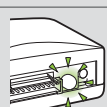
**1**  Close driver door.

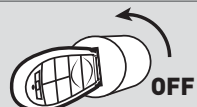
 Re-open driver door to wake up data bus.

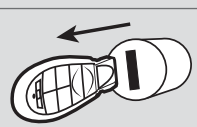
**2**  Insert key into ignition.


**3**  Turn key to ON position.

**4**  LED will turn solid RED.

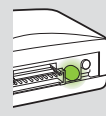
**5**  Within **5 seconds**, LED will flash GREEN rapidly.

**6**  Turn key to OFF position.

**7**  Remove key.

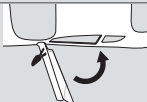
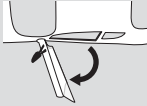

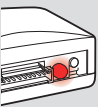
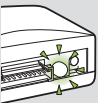

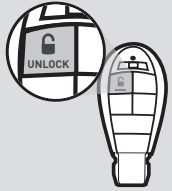
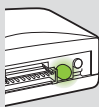
**8**  Press UNLOCK on the OEM remote.

If vehicle is not equipped with OEM remote, press module programming button.

**9**  Wait, LED will turn solid GREEN for **2 seconds**.

**10** Module Programming Procedure completed.

## MODULE PROGRAMMING PROCEDURE - PUSH TO START

- |   |  |
|---|--|
| <p><b>1</b></p>   | <p>Close driver door.</p> <p>Re-open driver door to wake up data bus.</p>                  |
| <p><b>2</b></p>    | <p><b>DO NOT PRESS BRAKE PEDAL</b></p> <p>Push start button twice [2x] to ON position.</p> |
| <p><b>3</b></p>    | <p>LED will turn solid RED.</p>  |
| <p><b>4</b></p>    | <p>Within <b>5 seconds</b>, LED will flash GREEN rapidly.</p>                              |
| <p><b>5</b></p>   | <p><b>DO NOT PRESS BRAKE PEDAL</b></p> <p>Push start button once [1x] to OFF position.</p> |
| <p><b>6</b></p>   | <p>Press UNLOCK on the OEM remote.</p>   |
| <p><b>7</b></p>   | <p>Wait, LED will turn solid GREEN for <b>2 seconds</b>.</p>                               |
| <p><b>8</b></p>   | <p>Module Programming Procedure completed.</p>   |

## VALET MODE PROGRAMMING PROCEDURE

### NOTE

- I In Valet Mode, the Remote starter is not functional. Keyless entry, Lock and Unlock will remain functional.
- II See RF kit user manual for alternate valet mode programming.

**TIME RESTRICTION COMING UP !**

**1** Insert key into ignition.

**2** **TIME RESTRICTION**  
Complete this step within 7 SECONDS.  
 **x5**  
Turn key to OFF position then to ON position five times [5x] rapidly.

**3** Wait, LED will turn solid RED for **2 seconds**.

**4** Turn key to OFF position.

**5** Remove key.

**6** Valet Mode Programming Procedure completed.

To exit valet mode: repeat steps 1 to 6.



## AFTERMARKET REMOTE PROGRAMMING

### NOTE

- I All aftermarket remotes must be programmed to the RF-Kit. Refer to the RF-Kit user guide for aftermarket remote features and programming procedures.

## MODULE NAVIGATION PROCEDURE

### NOTE

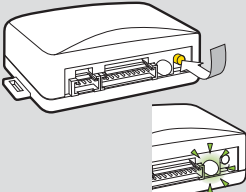
- I It is mandatory to exit the Module Navigation at the end of this procedure. Failure to exit the Module Navigation will drain vehicle battery.
- II Use the Module Navigation Chart on the next page.
- III Module must be programmed to the vehicle.
- IV Set ignition to OFF position.

**!** To exit the Module Navigation at any time:  
Follow step 8.

**1**  To access the **MENUS**:

Press and hold programming button until LED turns solid GREEN.

Release programming button.

**2**  In the **MENUS**:

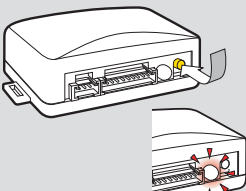
Press the programming button as many times as the menu number indicates.

LED will flash GREEN an equal amount of times continuously.

**3**  To access the **OPTIONS**:

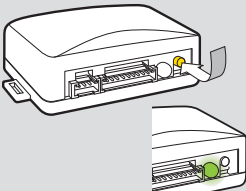
Press and hold programming button until LED turns solid RED.

Release programming button.

**4**  In the **OPTIONS**:

Press the programming button as many times as the option number indicates.

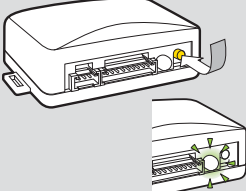
LED will flash RED an equal amount of times continuously.

**5**  To access the **SETTINGS**:

Press and hold programming button until LED turns solid GREEN.

Release programming button.

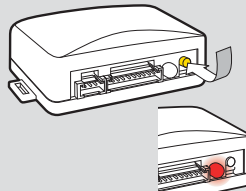
LED will flash GREEN as many times as the current (or default) setting number, continuously.

**6**  In the **SETTINGS**:

Press the programming button as many times as necessary to access your setting.

LED will flash GREEN an equal amount of times continuously.

**!** To return to the **MENUS**: exit the Module Navigation and redo the Module Navigation Procedure.

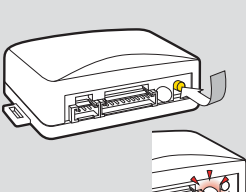
**7**  To save and return to the **OPTIONS**:

Press and hold programming button until LED turns solid RED.

Release programming button.

LED will flash RED as many times as the current option number continuously.

Configure every other setting and proceed to step 8.

**8**  **MANDATORY: EXIT MODULE NAVIGATION**

Press and hold programming button for 7 seconds.

LED will flash RED rapidly.

Release programming button.

LED will turn OFF.

**9** Module navigation completed.

**!** Failure to exit the Module Navigation will drain vehicle battery.

## MODULE NAVIGATION CHART

### NOTE

- I Default settings are listed in bold.
- II Make sure the option is covered on the vehicle before attempting to change the setting.

MENUS	OPTIONS	SETTINGS
1	1 DISARM/UNLOCK BEFORE START	1 <b>OFF</b>
		2 ON
	2 RELOCK AFTER START	1 <b>OFF</b>
		2 ON
	3 RELOCK AFTER SHUTDOWN	1 <b>OFF</b>
		2 ON
	4 FORCE UNLOCK ALL ON FIRST PRESS	1 <b>OFF</b>
		2 ON
	5 TAKEOVER	1 <b>ENABLE</b>
		2 DISABLE*
	6 SECURE TAKEOVER DELAY	1 <b>45 SEC</b>
		2 90 SEC
3 03 MIN		
4 04 MIN		
7 FACTORY KEYLESS RS SEQUENCE	1 DISABLE	
	2 N/A	
	3 LOCK + UNLOCK + LOCK	
	4 <b>LOCK + LOCK + LOCK</b>	
8 MODULE RUN TIME	1 03 MIN	
	2 05 MIN	
	3 10 MIN	
	4 15 MIN	
	5 25 MIN	
	6 30 MIN	
	7 35 MIN	
	8 <b>15 MIN</b>	
9 WAIT TO START DELAY	1 <b>02 SEC</b>	
	2 05 SEC	
	3 08 SEC	
	4 10 SEC	
	5 15 SEC	
	6 20 SEC	
	7 25 SEC	
	8 30 SEC	
10 N/A	1 N/A	
11 N/A	1 N/A	
12 N/A	1 N/A	
2	N/A	
3	N/A	
4	Technical Support Only	
5	Technical Support Only	
6	Technical Support Only	
7	Technical Support Only	

\*Vehicle will shutdown when a door is opened.

## REMOTE STARTER ERROR CODES

### NOTE

- I WARNING: The following applies only when the parking lights are connected and supported by the system.
- II After a remote starter failure, the parking lights will flash [X] number times to indicate an error code. See table.

[X] NUMBER OF PARKING LIGHT FLASHES	REMOTE STARTER ERROR CODES
3	Foot brake is ON.
4	Hood is open.
5	Engine tach signal is lost.
6	System is in Valet Mode.
7	Vehicle is moving (VSS).
8	Glow plug timeout error.

### IDENTIFY VEHICLE YEAR

**1** Locate the Vehicle Identification Number (VIN) and identify the 10th character.



**2** Match the VIN's 10th character to its corresponding year.

L → 1990	S → 1995	Y → 2000	5 → 2005	A → 2010
M → 1991	T → 1996	1 → 2001	6 → 2006	B → 2011
N → 1992	V → 1997	2 → 2002	7 → 2007	C → 2012
P → 1993	W → 1998	3 → 2003	8 → 2008	D → 2013
R → 1994	X → 1999	4 → 2004	9 → 2009	E → 2014

### MODULE DIAGNOSTICS

LED STATUS	DIAGNOSTICS		
	DURING PROGRAMMING	DURING REMOTE START	WITH IGNITION OFF
Flashing RED	Missing/wrong information from firmware or vehicle	Incorrectly programmed	Incorrectly programmed or connected
Solid RED	Waiting for more vehicle information	Incorrectly programmed	Not programmed waiting for more vehicle information
Flashing GREEN	Additional steps required to complete programming	Correctly programmed and operational	False ground when running status from remote starter
Solid GREEN then OFF	Correctly programmed	Reset in progress	Reset in progress
OFF	No activity or already programmed	Invalid ground when running status from remote starter	At rest and ready for a remote start sequence

### FACTORY RESET PROCEDURE

**1** **DISCONNECT** all connectors from module **EXCEPT** the black 4-PIN standard or optional data connector.

**2** **DISCONNECT** black 4-PIN standard or optional data connector.

**3** **PRESS AND HOLD** programming button while connecting either 4-PIN standard or optional data connector.

**4** When LED flashes red, **RELEASE** programming button.

**5** LED will turn solid red for 2 seconds.  
**RESET COMPLETED.**

**6** **RECONNECT** all connectors.

**7** Repeat programming procedure.

**!** Failure to follow procedure may result with a DTC or a CHECK ENGINE error message.

## TAKE OVER PROCEDURE - TO THE VEHICLE OWNER

### NOTE

1 All vehicle doors must be closed and locked prior to remote start sequence.

1



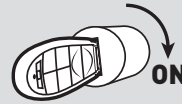
Press UNLOCK on after-market remote.

2



Insert key into ignition.

3



Turn key to ON position.

Wait 2 seconds for key validation.

4



Press and release BRAKE pedal.

5

Take over procedure completed.



Failure to follow procedure will result in vehicle engine shutdown.

## TAKE OVER PROCEDURE - PUSH TO START - TO THE VEHICLE OWNER

### NOTE

1 All vehicle doors must be closed and locked prior to remote start sequence.

1



Press UNLOCK on after-market remote.

2



**DO NOT PRESS BRAKE PEDAL**

Push start button twice [2x] to ON position.

Wait 2 seconds for key validation.

3



Press and release BRAKE pedal.

4

Take over procedure completed.



Failure to follow procedure will result in vehicle engine shutdown.