



# Installation Guide

\* For automatic transmission vehicles only

**RS-RAM71**

REV 01132021

## ***For 2013-2017 Ram Trucks: Gas, Diesel, Tip Key and Push-to-Start***



You may view a high-resolution color version of this guide online at <http://install.kleinn.com/RSRAM71> or by scanning this QR code. ***Please read this guide in its entirety or you will have issues!***

-This remote start will monitor the vehicle lock circuit and use the pulses generated by pressing lock 3 times on your OEM remote to start the vehicle.

-This is a pre-wired 'semi' plug and play kit. One wire connection is required into the vehicle for basic installation. The kit also includes an optional parking light flash feature. If used, that feature requires one additional wire connection.

-We have already loaded the correct firmware into the remote start module. You will need to pair the module to your vehicle when the wiring is complete. Instructions are on page 5. Depending on the configuration of your vehicle, you may also need to make up to two programming changes to the module. This is addressed in detail on Page 2.

### **Overview**

There are 6 basic steps to this remote start installation. We're going to address each of these:

1. Download and install Flash Link Manager software.
2. If required, set correct options in remote start module.
3. Make the plug-in and wire connections.
4. Pair the remote start to the vehicle.
5. Test the system.
6. Button it up!

### **Step 1: Download and install Flash Link Manager software**

\*\*The Flash Link Manager (FLM) software only works on a Windows computer.

Enter the following link into your web browser, then download and install the software:

**<https://fortin.ca/en/support/flashlinkmanager.html>**

Next, open the software and log in with the following credentials:

**email: [flash@kleinn.com](mailto:flash@kleinn.com)**

**password: Flash2020**

Once the (FLM) software installed and open, then connect the Flash Link Lite (FLL) to the USB port of your Windows computer. The (FLM) software will detect (FLL) and display a message that the module is not connected, this is normal. Do not plug the remote starter into the (FLL) tool until you have completed the wiring and vehicle programming procedure at step 3. Leave the computer and software in this state ready to plug the module in when the time comes, and proceed with the wiring connections.

### **Step 2: Making settings changes in the remote start module**

2013-2017 Ram trucks were made with both gas and diesel engines, and two different types of ignition systems - "Tip Key" and Push-to-Start. The specific configuration you have may require up to two settings changes in the remote start module. The default settings in the remote start are for diesel engine and Tip Key ignition. If that's what you have, no settings changes are required. Proceed to Step 3: Wiring.

If you have Push-to-Start ignition, you MUST make the settings change for Push-to-Start. If you have a gas engine you can leave the fuel type set to diesel and you will just have a 20-second delay before your truck starts. Or you can disable the diesel start delay altogether.

Begin by opening the Flashlink Manager application and plugging in the remote start module. It will take the application about a minute to read the module, then you'll see the screen below. The display will show a Ram truck. The year does not matter - firmware and settings for 2103 - 2017 are all the same.

2.1 Once this screen loads, look to the bottom of the screen and click the "OFF" button in the Settings Protection row.



RAM 1500 2017 - DIESEL

The screenshot shows the 'BYPASS OPTIONS' section of the Flashlink Manager. At the bottom, there is a '\*\*\* SETTINGS PROTECTION' row with a description 'Prevent options reset from a Master Reset.' and two buttons: 'OFF' (highlighted with a red arrow) and 'ON'.

2.2 The remote start settings options will display.

The screenshot shows a list of settings under the '\*\*\* SETTINGS PROTECTION' row. A red box highlights the 'D1' section, which includes settings for 'A1 DOOR LOCKS', 'A2 TRUNK RELEASE', 'A3 KEY BYPASS', 'A4 HEATED SEATS', 'A5 AUX. 1', and 'A6 AUX. 2'. Each setting has 'OFF' and 'ON' buttons.

2.3 Scroll down to the "D" section, then click the downward arrow on the far right side of D1. This will open the "D" submenu.

The screenshot shows the 'D' section of settings, starting with 'D1 STANDALONE REMOTE STARTER'. A red arrow points to a downward arrow icon on the far right of the D1 row. Other settings include 'D2 UNLOCK BEFORE/LOCK AFTER (DISARM OEM ALARM)', 'D3 DOOR OPEN SHUTDOWN', 'D4 HYBRID MODE', 'D5 LOCK AFTER START', and 'D6 PUSH-TO-START'.

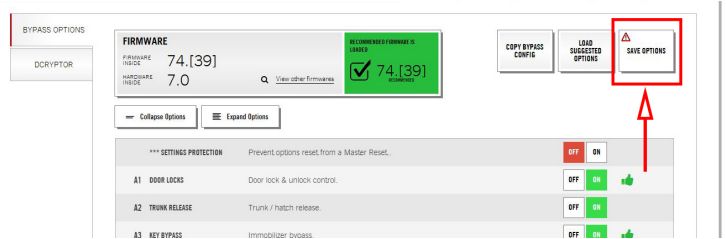
2.4 If you have a gas engine and wish to turn off the diesel delay, click the "OFF" button on row D1.3.

The screenshot shows the 'D1 STANDALONE REMOTE STARTER' section expanded. The 'D1.3 DIESEL MODE' row is highlighted with a red box, and a red arrow points to the 'OFF' button. Other settings include 'D1.1 LOCK-UNLOCK-LOCK', 'D1.2 DISABLE 2ND START ATTEMPT', 'D1.4 3 MINUTE RUNTIME', 'D1.5 7 MINUTE RUNTIME', 'D1.6 15 MINUTE RUNTIME', 'D1.8 30 MINUTE RUNTIME', and 'D1.9 60 MINUTE RUNTIME'.

2.5 If you have a push-to-start ignition, scroll further down to setting D6.

The screenshot shows the 'D6 PUSH-TO-START' setting at the bottom of the list. A red box highlights the 'D6' row, and a red arrow points to the 'OFF' button.

2.6 Once you have made your settings changes, click the "Save Settings" button at the top right of the screen. Unplug the module and proceed with making your wiring connections.



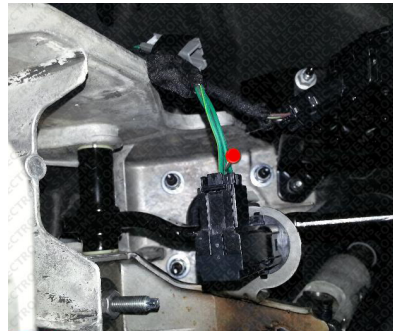
**IMPORTANT:**

If you wish to change your run-time settings, you may select from options D1.4 through D1.9. **DO NOT CHANGE ANY OTHER SETTINGS.** There are many settings within the options menu that if changed could make the system inoperable or even damage the vehicle. Many of the settings you see that may seem like a good idea are not a good idea. Don't go there!

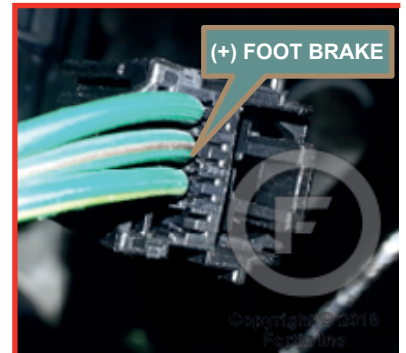
**Step 3: Wiring**

Remove the lower driver's side trim panel to access the plugs shown here

① Foot Brake connector



**PUSH-TO-START VEHICLES ONLY  
NOT USED WITH KEY-START**



③ At Parking-Light switch (optional)



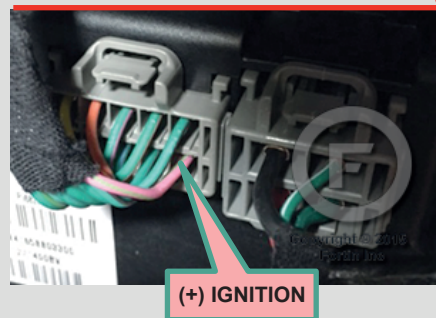
② Back of Push-to-Start Button or ignition switch



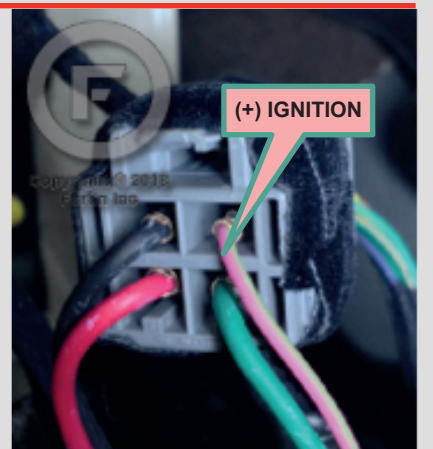
⑥ OBD-II connector



④ Near Push-to-Start Button or ignition switch



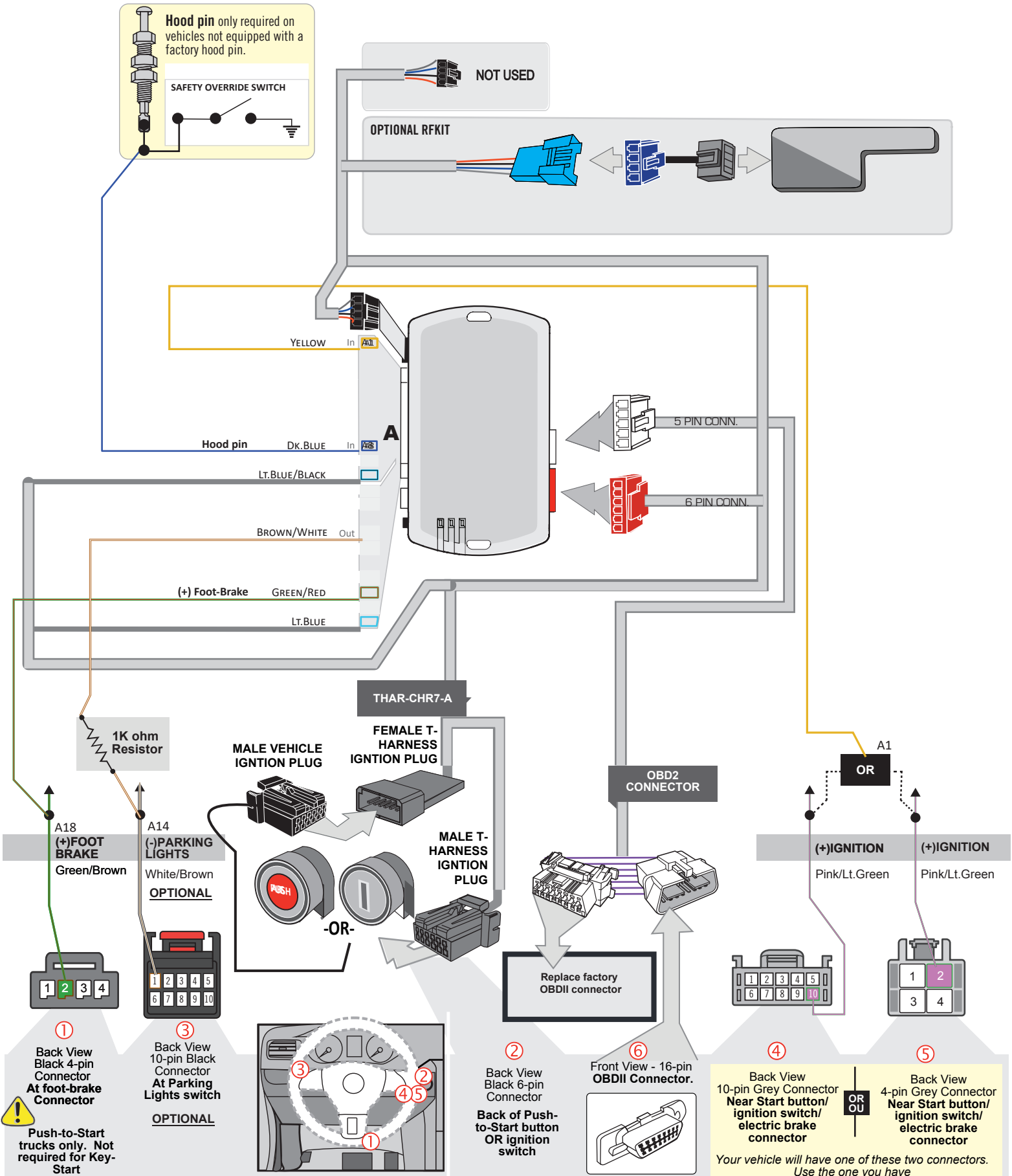
⑤ Near Push-to-Start Button or ignition switch



Your vehicle will have one of these two connectors. Use the one you have

# System Wiring Overview

**NOTE:** The CHR7A wiring harness includes a bundle of loose wires. Depending on your vehicle and options choices you will need up to three of these wires. The remaining wires can be cut short and taped up.



3.1 Connect the CHR7-A harness. The male OEM plug on the back of the vehicle Push-To-Start button or the ignition switch will be located to the right of the steering column. Release the connector, then connect the male t-harness plug into the receptacle, and plug the female t-harness plug into the male OEM plug.

3.2 Make the connection for +12v Ignition. On the remote start, it's the Yellow wire that's part of the bundle of loose wires attached to the CHR7A harness. In the vehicle, locate the ignition connector. It will be near the Push-to-Start button or ignition switch. Depending on your accessory package it will be either a 10-pin gray connector or a 4-pin gray connector. See photos on Page 3. Tap the Yellow wire from the remote start on to the Pink/Light Green wire in the ignition connector.

3.3 Connect the OBD2 T-Harness. Release the OEM OBD2 connector from its' mount, plug it in to the receptacle in the T-Harness, then mount the connector from the T-Harness back in the OEM bracket.

3.4 (**Push-to-Start vehicles ONLY**) Locate the brake wire in the vehicle. It's on a 4-pin black connector near the foot brake. See photos on Page 3. Connect the Green/Red wire from the bundle of loose wires on the CHR7-A on to the Green/Brown wire in the 4-pin brake switch connector.

### **3.5: Optional wiring connections**

**Parking lights** - This will serve as a visual indicator that the vehicle is running. If you wish to have this option, locate the Brown/White wire in the bundle of unused, loose wires. Connect a 900-1000-ohm resistor (not included) to the end of the Brown/White and attach that to the White/Brown parking light wire at the back of the parking light switch, Pin position 1 as shown in the system wire diagram. To assist with identification, a photo of the back of the parking light switch can be found on Page 3.

This is a 'tap-on' connection. Do not cut the White/Brown parking light wire in the vehicle.

**Hood Pin** - This is an important safety feature. It de-activates the remote start while the hood is open to prevent injury from accidental remote starting while working under the hood. Most Ram trucks will have an OEM hood pin that is read by the remote start module. In these vehicles, installation of the aftermarket hood pin is unnecessary.

If you are uncertain as to whether or not your truck had factory hood pin - after you complete the remote start installation and test the system, try remote starting the vehicle with the hood open. If the vehicle will not start, you have a factory hood pin. If the vehicle does start, you do not.

If you install the hood pin, it must be mounted so that:

- a. The body of the pin is mounted to metal
- b. The pin is depressed when the hood is closed and released when the hood is open.

Connect the Dark Blue wire from the loose wire bundle to the hood pin (you may need to extend the wire). The ground signal from the hood pin on that Dark Blue wire will disable the remote start system.

**Valet Switch** - The valet switch can also be used to disable the system.

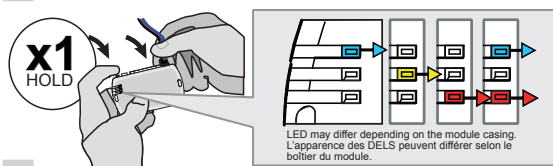
- a. Connect one side of the switch to the Dark Blue wire from the loose wire bundle
- b. Connect the other side of the switch to ground

## **Step 4: Programming**

- Programming instructions for **KEY-START** vehicles begin on **PAGE 6**
- Programming instructions for **PUSH-TO-START** vehicles begin on **PAGE 8**

# Programming Key-Start Trucks ONLY

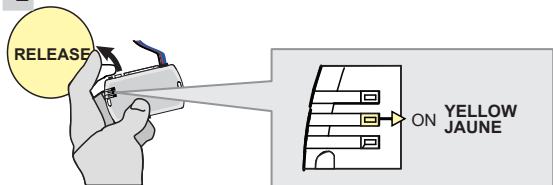
1



**Press and hold** the programming button:  
**Connect** the 4-PIN Data-link harness (Black connector).

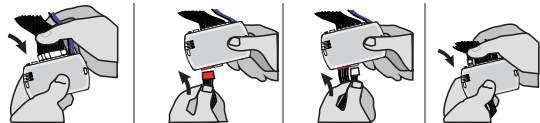
↳ The Blue, Red, Yellow and Blue & Red LEDs will alternatively illuminate.

2



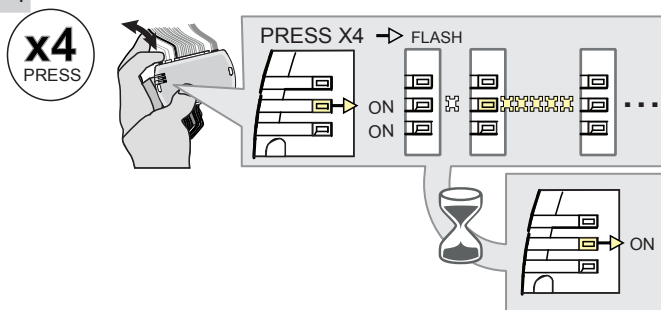
**Release** the programming button when the LED is **YELLOW**.

3



**Connect** the required remaining harnesses.

4



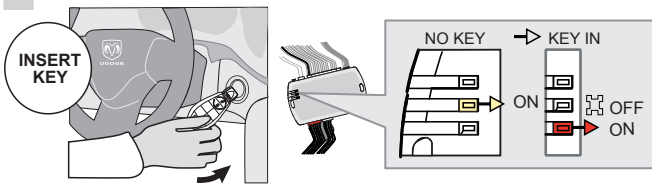
**Press and release** the programming button four (4x) times.

↳ The **YELLOW** LED will flash 4 times each second.

↳ **WAIT** for the **YELLOW** LED to turn **ON solid**.

**CAUTION - ALL LIGHTS IN THE DASH BOARD MUST BE OFF BEFORE CONTINUING WITH STEP 5.**

5

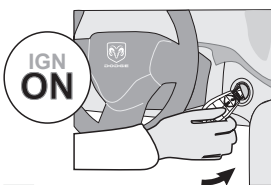


**Insert** the key into the ignition barrel.

**DO NOT** turn ON the key.

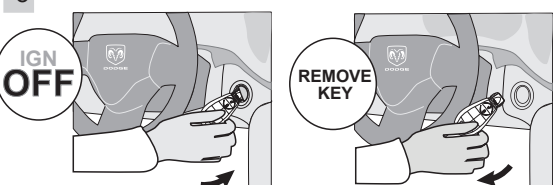
Wait,

↳ The **RED** LED will turn ON.  
 ↳ The **YELLOW** LED turns OFF.



**Turn** the Ignition to the ON/RUN position.

6

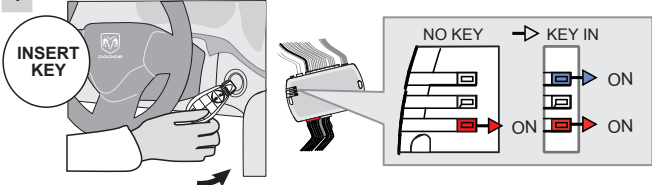


**Turn** the Ignition to the OFF position.

**Remove** the key from the Ignition barrel.

**CAUTION - ALL LIGHTS IN THE DASH BOARD MUST BE OFF BEFORE CONTINUING WITH STEP 7.**

7



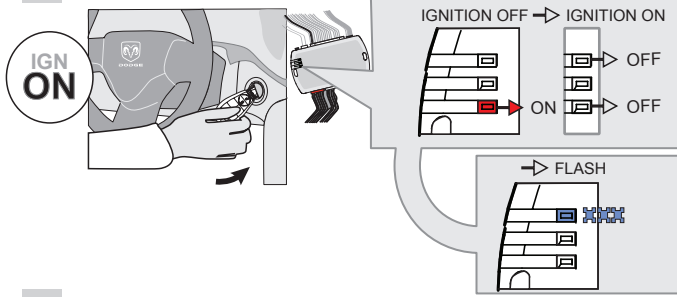
**Reinsert** same key into the ignition barrel.

**DO NOT** turn ON the key.

↳ The **BLUE** will turn ON.

CONTINUED NEXT PAGE

8



Turn the Ignition to the ON/RUN position.

↳ The RED and BLUE will turn OFF.

↳ The BLUE LED will flash rapidly.

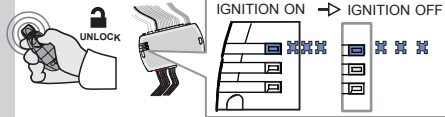
9



Turn the Ignition to the OFF position.

10

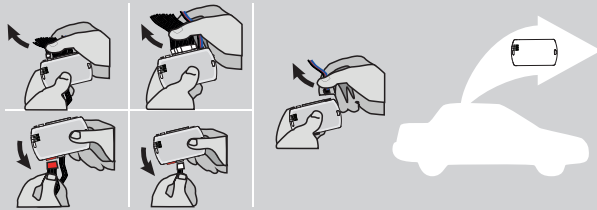
With OEM remote:



Unlock the doors with the OEM remote.

↳ Wait until the BLUE flash slowly.

11



Disconnect all the connectors and after the Data-Link (4-pins) connector.

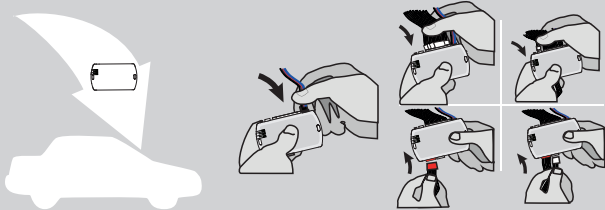
12



Use the tool: FLASH LINK UPDATER

Follow the instructions on Page 11

13



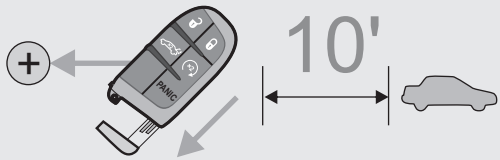
AFTER DCRYPTOR PROGRAMMING COMPLETED

Go back to the vehicle and reconnect the 4-Pin (Data-Link) connector and after, all the remaining connectors.



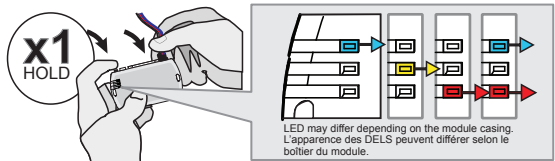
The module is now programmed. Proceed to Testing - Page 13

# Programming Push-to-Start Trucks ONLY



**Remove** the valet key from the back of the OEM remote.  
**Remove** the battery from the OEM remote.  
**Keep** the other OEM remotes at least 3 meters (10 feet) away from the vehicle to proceed.

**1**



**Press and hold** the programming button:  
**Connect** the 4-PIN Data-link harness (Black connector).

*↳ The Blue, Red, Yellow and Blue & Red LEDs will alternatively illuminate.*

**2**

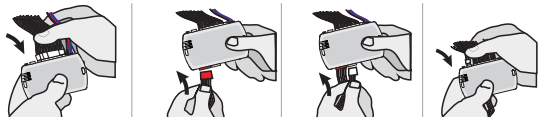


**Release** the programming button when the LED is **YELLOW**.

*If the LED is not solid YELLOW disconnect the 4-Pin connector (Data-Link) and go back to step 1.*

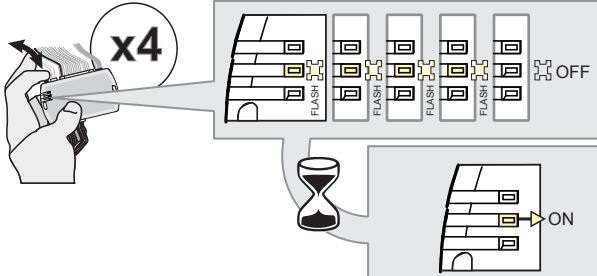


**3**



**Insert** the required remaining connectors.

**4**




**Press and release** the programming button four times (4x).

*↳ The YELLOW LED will alternate between 4x flashes and a pause.*

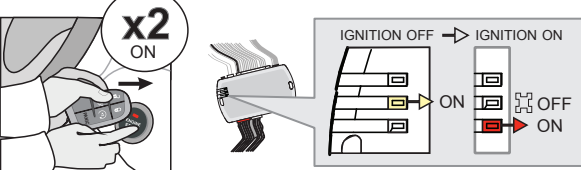
*↳ Wait until the YELLOW LED turns ON.*

**5**



**Place** the OEM remote (no battery) close to the front of START/STOP button exactly as shown.  
 Do not move the OEM remote for the following step.

**6**



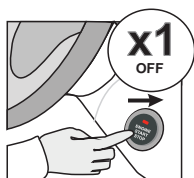
**Press** the Start/Stop button twice to turn ON the ignition.

*↳ The RED LED will turn ON.*  
*↳ The YELLOW LED turns OFF.*

CONTINUED NEXT PAGE



7



**Press and release** the START/STOP button once to shut off the ignition.

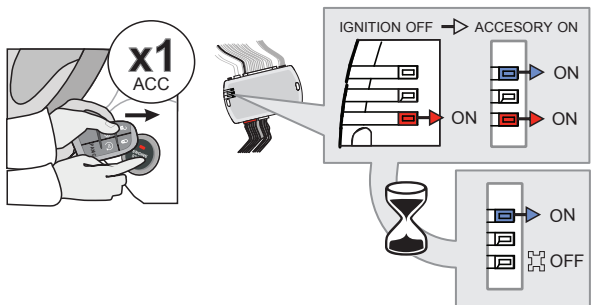
8



**Place** the OEM remote (no battery) close to the front of START/STOP button as shown.

Do not move the OEM remote for the following step.

9



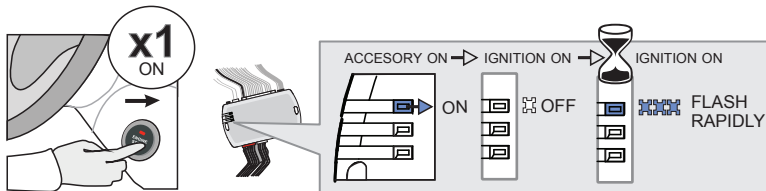
**Press and release** the START/STOP button once to turn ON the ACCESORY.

↳The RED and BLUE LED will turns ON.

↳Wait for The RED LED to turns OFF

↳BLUE LED remains solide.

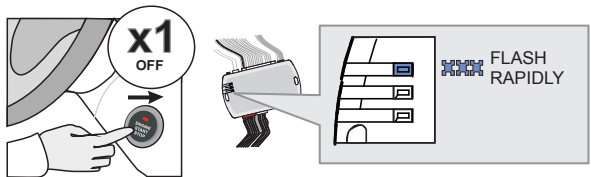
10



**Press and release** START/STOP button once to turn ON the ignition.

↳Wait until the BLUE LED flash rapidly.

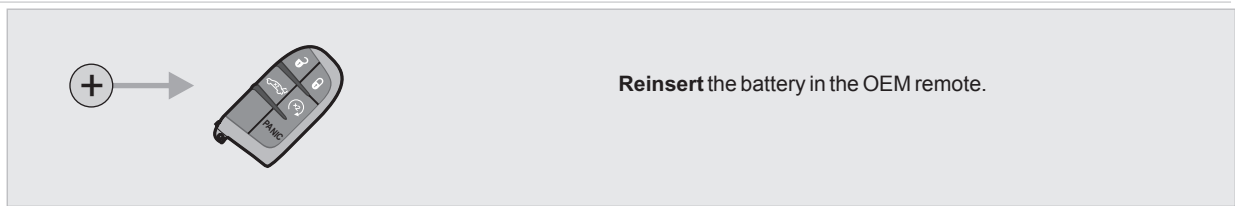
11



**Press and release** the START/STOP button once to shut off the ignition.

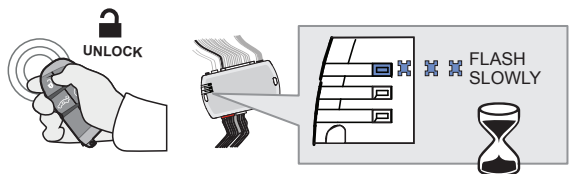
↳The BLUE LED continues to flash rapidly.

12



**Reinsert** the battery in the OEM remote.

13

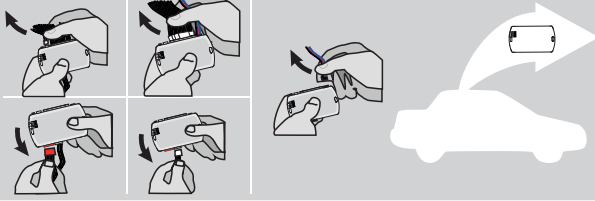


**Unlock** the doors with the OEM remote.

↳Wait until the BLUE flash slowly.

CONTINUED NEXT PAGE

14



**Disconnect** all the connectors and after the Data-Link (4-pins) connector.

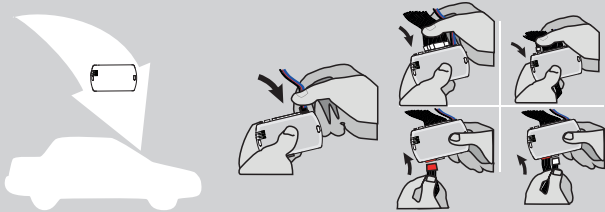
15



**Use the tool:**  
**FLASH LINK UPDATER**

Follow the instructions on Page 11

16



**AFTER DCRYPTOR PROGRAMMING COMPLETED**  
Go back to the vehicle and **reconnect** the 4-Pin (Data-Link) connector and after, all the remaining connectors.



The module is now programmed.  
Proceed to Testing - Page 13

## How to Do The Dcryptor Process

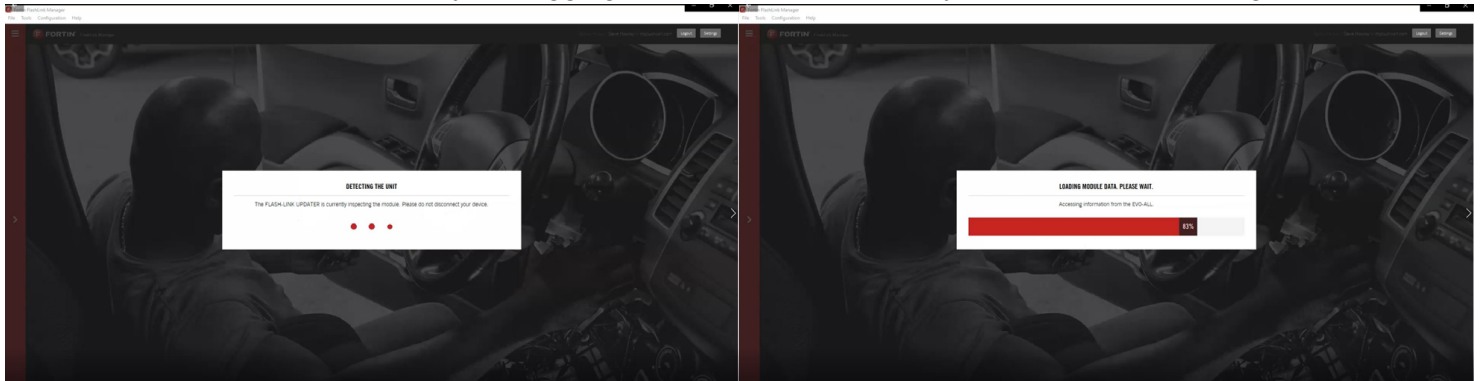
As part of the initial programming procedure, the remote start module will read the digital code from your key that overrides the anti-theft system. Doing the Dcryptor programming permanently writes that code in to the remote start's memory.

Start by bringing the remote starter module to your computer and plug it into the supplied four-pin plug from the Flashlink Updater

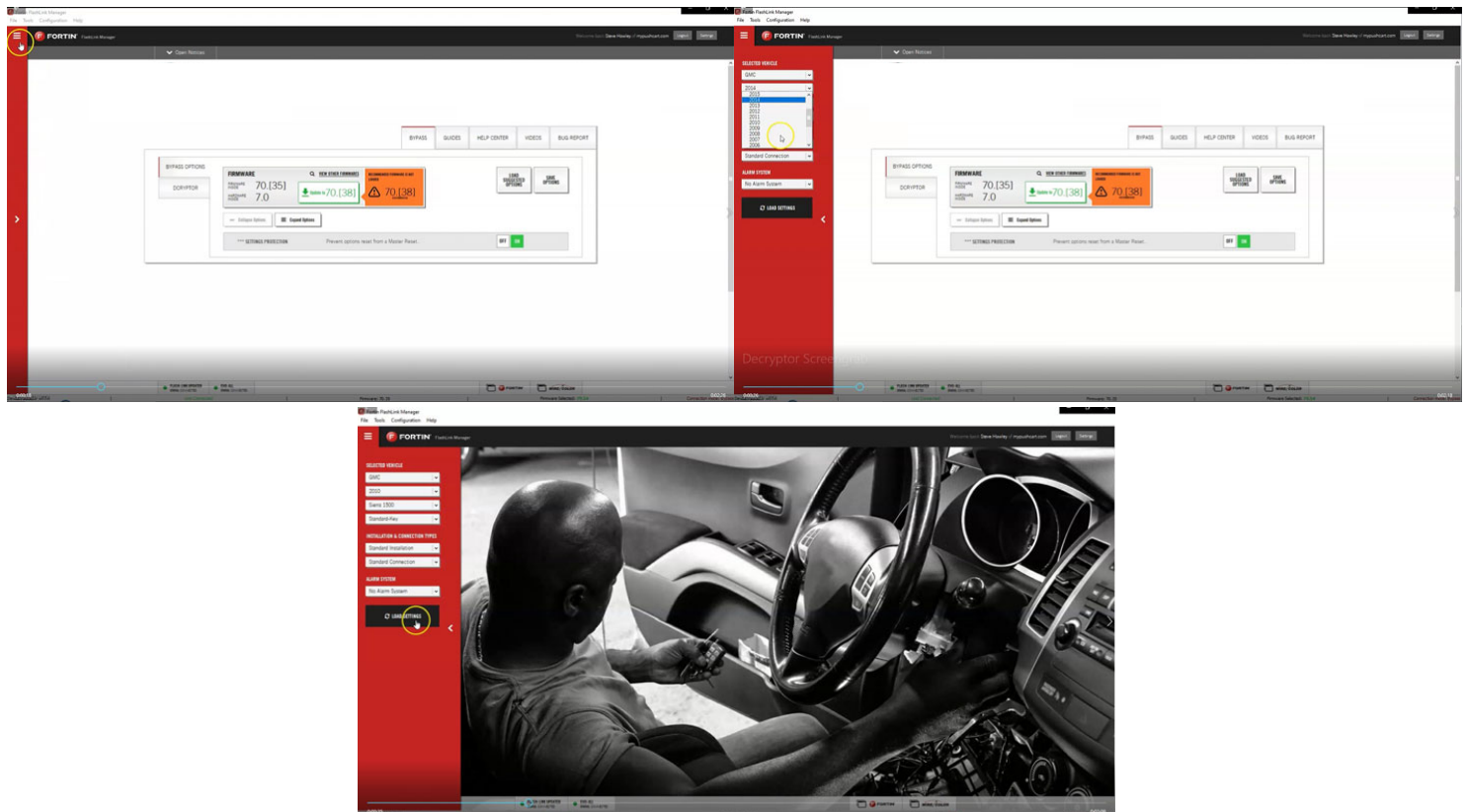
For a video on how to do these steps visit:  
[www.kleinn.com/flashlink](http://www.kleinn.com/flashlink)



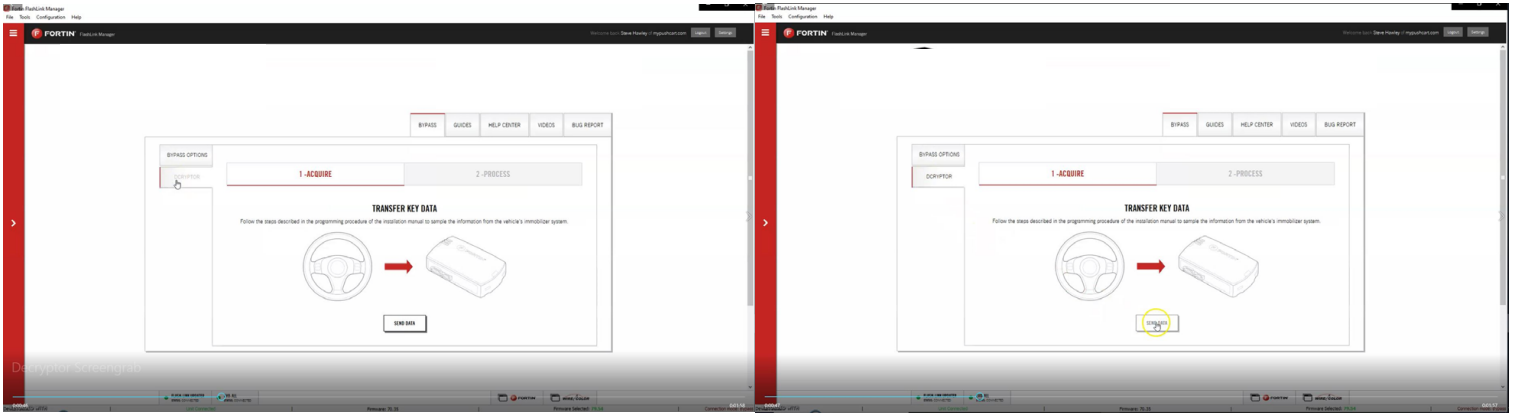
The software will detect you plugging it in and will automatically load the current settings.



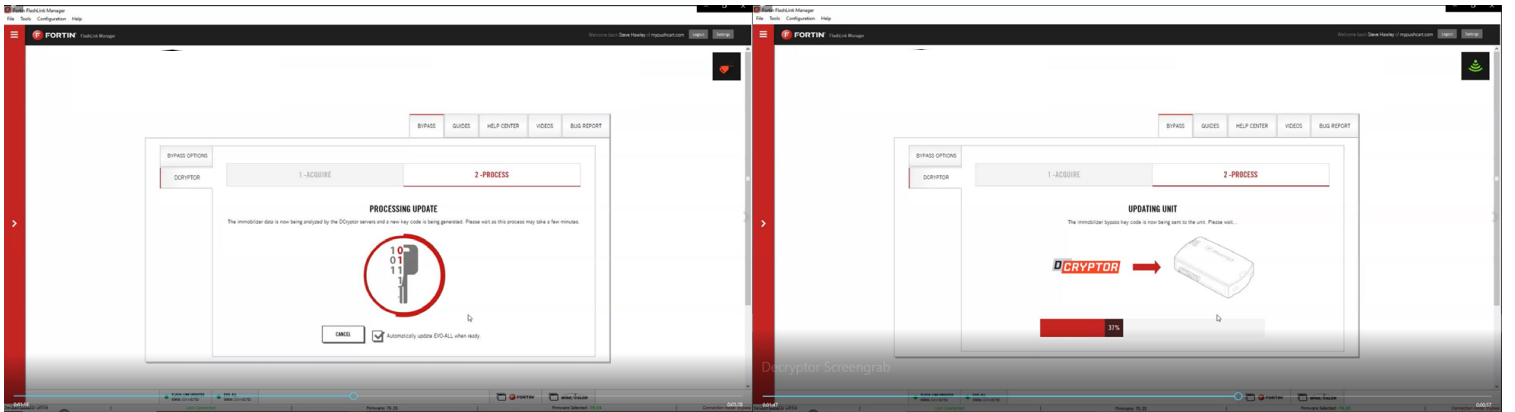
The first step is to select your vehicle. Click the three bars at the top of the Red bar on the upper left corner of the screen. Select your make, year, model, key type and then click load settings. **Do not change any other dropdowns or any options - we have already done these settings for you.**



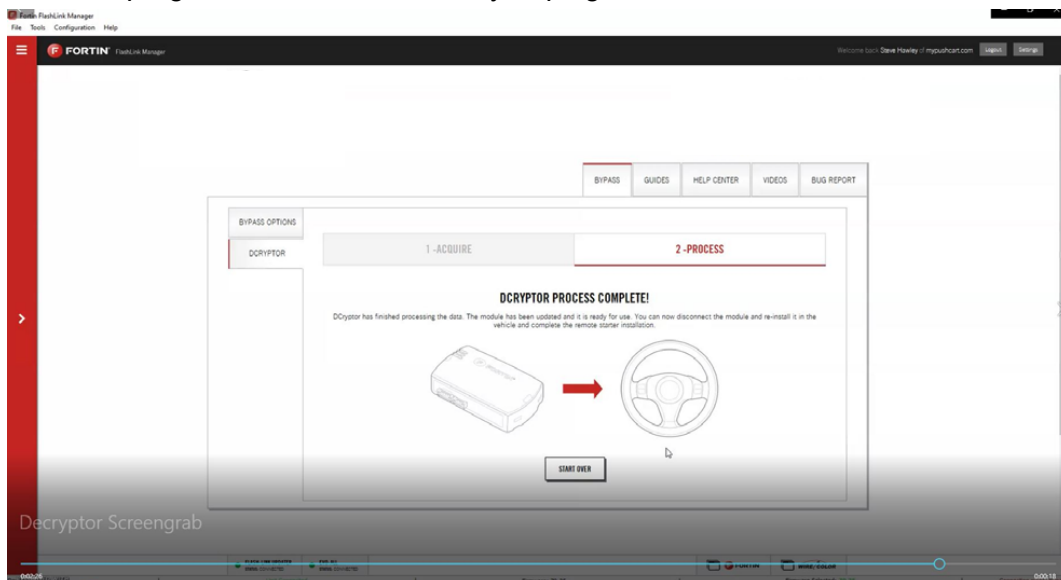
Next, click the Dcryptor tab. Then click on the Send data button.



Wait while the updater reads data from the remote starter. Once it is done it will update the remote starter and you will need to wait again. You will see a status bar at the bottom of the screen. When it gets to 100%, the Dcryptor process is complete.



You can now unplug the remote starter module and plug it back into the connectors in your vehicle. Make sure to plug in the power connector first and then the rest of the plugs afterward. Do not hold the program button down when you plug the connectors back in.



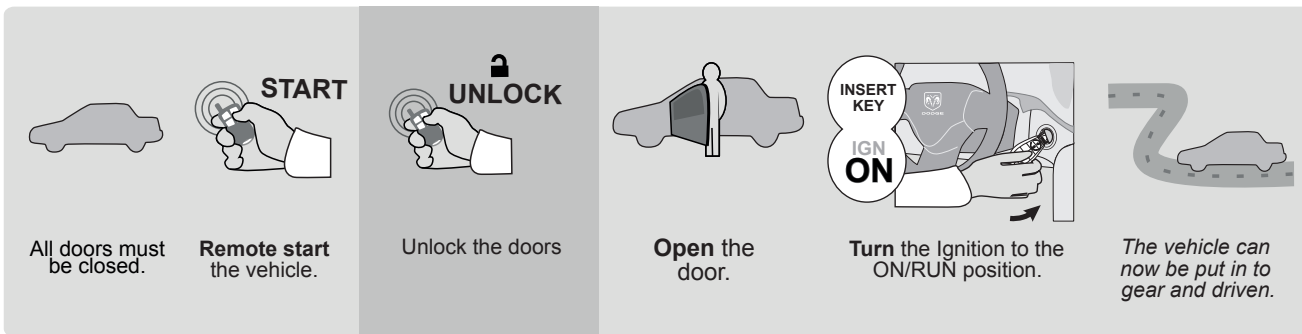
## Step 5: Test the System

1. Press the 'lock' button on your OEM fob three times in succession, with each press 1 second apart. The vehicle ignition/accessory circuits will turn on after a few seconds. Another few seconds later the starter motor will engage. You will see the Blue light on the remote start module flash every time you press the Lock button.
2. Step on the brake pedal to stop the engine.

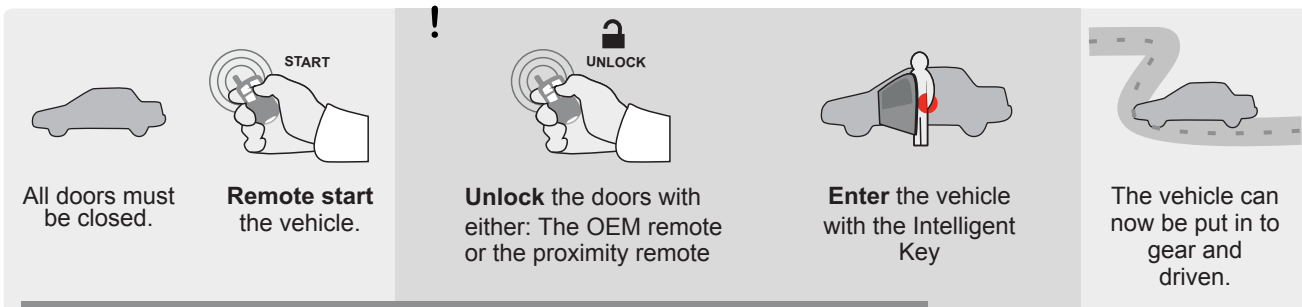
## Step 6: Close it Up

Now gather up all of your wiring and neatly bundle it together using zip ties or electrical tape. Find a secure place to put the remote start module and use zip ties to secure it. **Make sure that the remote start wires are not near any moving parts on the steering wheel, pedals or emergency brake! Re-Install any panels that were removed to gain access to key switch in reverse order they were removed. ENJOY!**

### Functionality: Key-Start Trucks



### Functionality: Push-To-Start Trucks



If the vehicle is not unlocked the remote-starter will shut down as soon as any door is opened.

**If you have any installation questions or problems, call for tech support**  
**520.579.1531**