INSTALLATION TIP SHEET
2003-2006 GM Full-Size Trucks & SUVs
SKU#: RSGM12

Chevrolet					
Avalanche	03	04	05	06	
Express	03	04	05	06	07
Silverado 1500	03	04	05	06	
Silverado 1500 Classic					07
Silverado 2500	03	04	05	06	
Silverado 2500 Classic					07
Silverado 3500	03	04	05	06	
Silverado 3500 Classic					07
Suburban	03	04	05	06	
Tahoe	03	04	05	06	

GMC					
Savana	03	04	05	06	07
Sierra 1500	03	04	05	06	
Sierra 1500 Classic					07
Sierra 2500	03	04	05	06	
Sierra 2500 Classic					07
Sierra 3500	03	04	05	06	
Sierra 3500 Classic					07
Yukon	03	04	05	06	
Cadillac					
Escalade	03	04	05	06	
Escalade EXT	03	04	05	06	

Introduction.

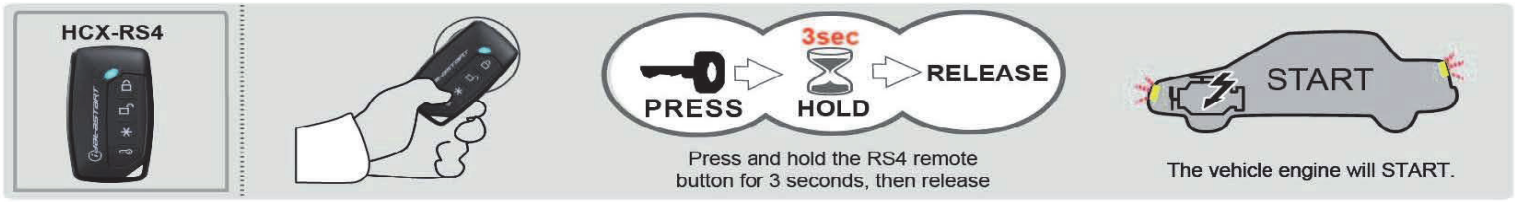
Thank you for purchasing your remote starter kit from Kleinn. The purpose of this tip sheet is to help you organize your installation. We have simplified the entire process by manufacturing t-harness connectors to make connection easier and we pre-flash your vehicle specific firmware to the module. If a diesel delay is desired, follow the instructions further down in this guide, a laptop or PC with a USB port is required to change the setting, the module has a USB-C port that connects to the PC. This guide includes Drone smartphone instructions towards the end of this guide. (Drone module sold separately)

Disclaimer.

Neither the manufacturer nor the distributor of these components are responsible for damages of any kind either indirectly or directly caused by the components, except for the replacement of the components in case of manufacturing defects. Refresh your browser cache or use different browser Edge, Chrome, Firefox, etc. to view the latest updates.

*** For automatic transmission vehicles only ***

Remote Starter Activation:



⇒ **Firmware pre-loaded: As part of the service Kleinn provides, we have already flashed the compatible firmware version and options into the module, as well as cut the black loop on the side of the HCX to select automatic transmission mode for you so you are ready to begin the installation in the vehicle. You will need to program the module to the vehicle when the installation is complete.**



Installation Overview.

There are 5 basic steps to this remote start installation:

1. Vehicle preparation, remove lower dash panel and steering column shroud.
2. Wiring, make t-harness connection at key barrel & obd2 port, make hardwire connection to brake wire, run antenna
3. Programming, program the module first, then the remotes.
4. Testing the system, test to make sure the keyless entry works, remote start activates, and brake shuts it down.
5. Finishing up! Tuck the module out of the way, hold in place obstruction free with zip ties if needed, re-assemble.

STEP 1: Preparation

This remote start kit is a SEMI-PLUG & PLAY INSTALLATION TYPE. This kit uses a plug-in T-Harness that reduces the "wire-to-wire" connections to 1. The rest of the physical attachment of this product will require only plug-in connections. Simply plug the T-Harness into the vehicle, connect the brake wire, then program the module and the remotes and the starter will be ready for use.

- Any vehicle panels required to gain access to the needed plugs outlined in this Tip Sheet will need to be removed. The bulk of the installation typically takes place in the driver's side under dash area. You may need to access the passenger side under dash area for some vehicles. Refer to the Wire Diagram for the locations that need to be accessed in the vehicle. Remember the order that you remove the panels.

- Wait to mount the remote start component(s) in the vehicle until after you have completed the wiring and have tested the system. Keep in mind where you plan to mount the component(s) when routing your wires to avoid having to unplug after programming. The component(s) can be mounted to a rigid wire bundle under the dash using zip ties. Look for an open and convenient location in the vehicle that will fit the component(s). Pay attention to moving parts like the pedals, e-brake and steering column. Be sure to route your wiring away from those areas. It is best to route your wires along with the vehicles factory wires, as this is typically a safe location and it keeps the install neat.

- If your T-harness has loose wires with no plugs at the end they will not be needed for standard installation in this application. Tape up any extra wires or tuck them away with the T-harness and isolate them so they are not in the way. Adding options may require additional wiring connections.

Table of Contents

Application chart Page 1
Step 1 Preparation. Page 2
Step 2 Make the connections in the vehicle. Pages 3-7
Step 3-3.1 Program the remote start to the vehicle Pages 8-9
Step3.2 Program the remotes. Page 10
Pairing Remotes with Weblink software. (If programming remotes fail) Page 11
Step 4 Testing the System & Error Code Chart for Start failure diagnostics, Valet Mode. Page 12
Remote Operation with image. Page 13
Master Reset Procedure. (Only needed if programming fails) Page 14
Diesel Delay Setting Change. Pages 15-18
Drone Add-on Module instructions. (Drone Sold Separately) Pages 19-23

STEP 2: Wiring in the Vehicle

How to Make Wire-to-Wire Connections:

Click Here for Strip - Poke - Wrap & Tape Wire Connection Method

Strip - Poke - Wrap and Tape method is recommded for the wire-to-wire connection for the brake wire. You MUST use this method for any data wire connection(s). T-Taps can be used if done properly but can cause issues in connectivity.

How to Make T-Tap Wire Connections

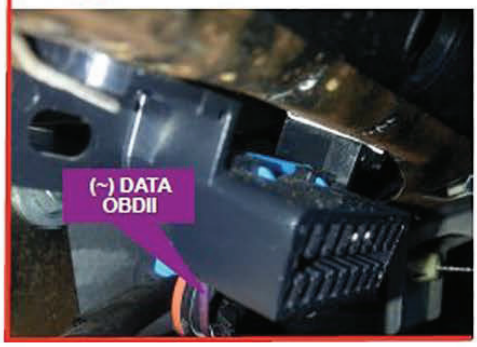
Click here for directions on how to use a T-Tap

The recommended Strip - Poke - Wrap and Tape method shown above is the most reliable for remote start wiring connections. Your kit may include T-Tap connectors that can make your connections easier, wiring and still perform reliably when used correctly.

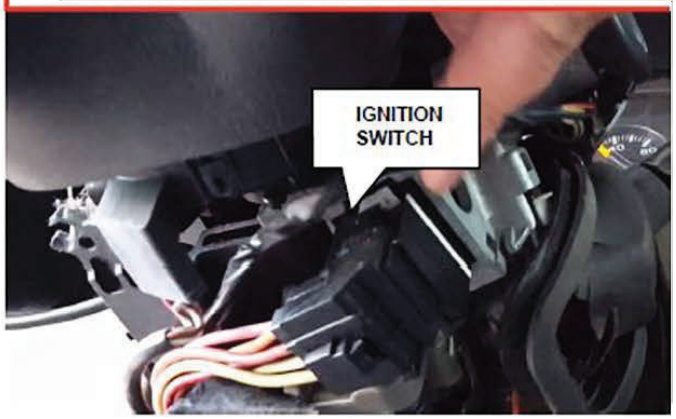
Where to find connections



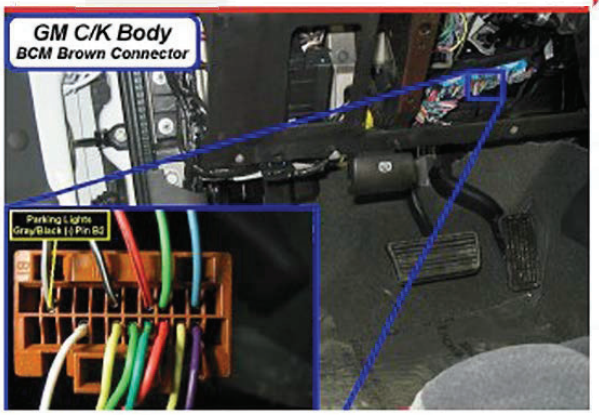
2 OBDII CONNECTOR



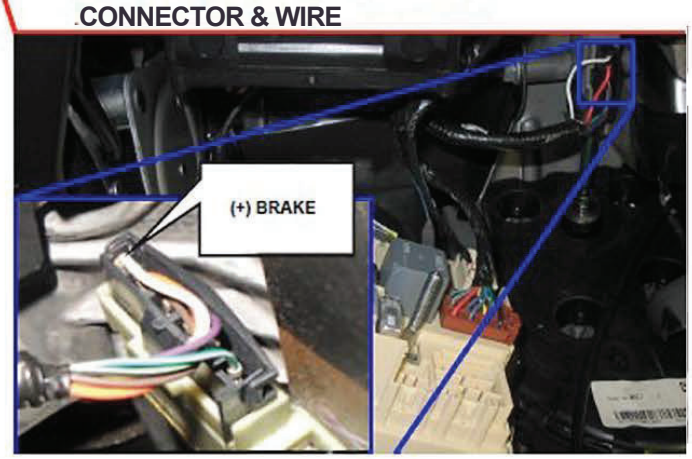
1 IGNITION SWITCH CONNECTOR



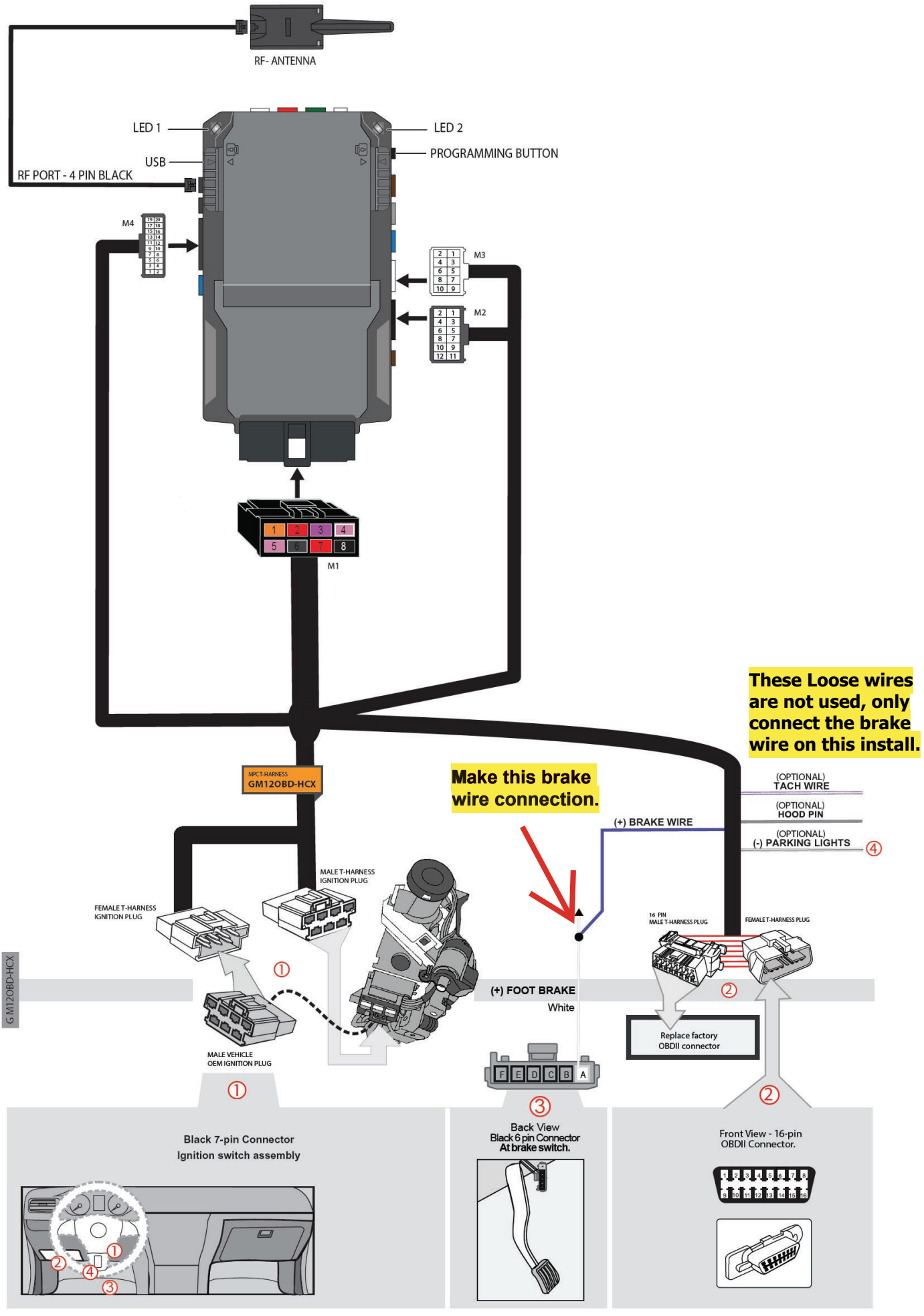
4 OPTIONAL PARKING LIGHT



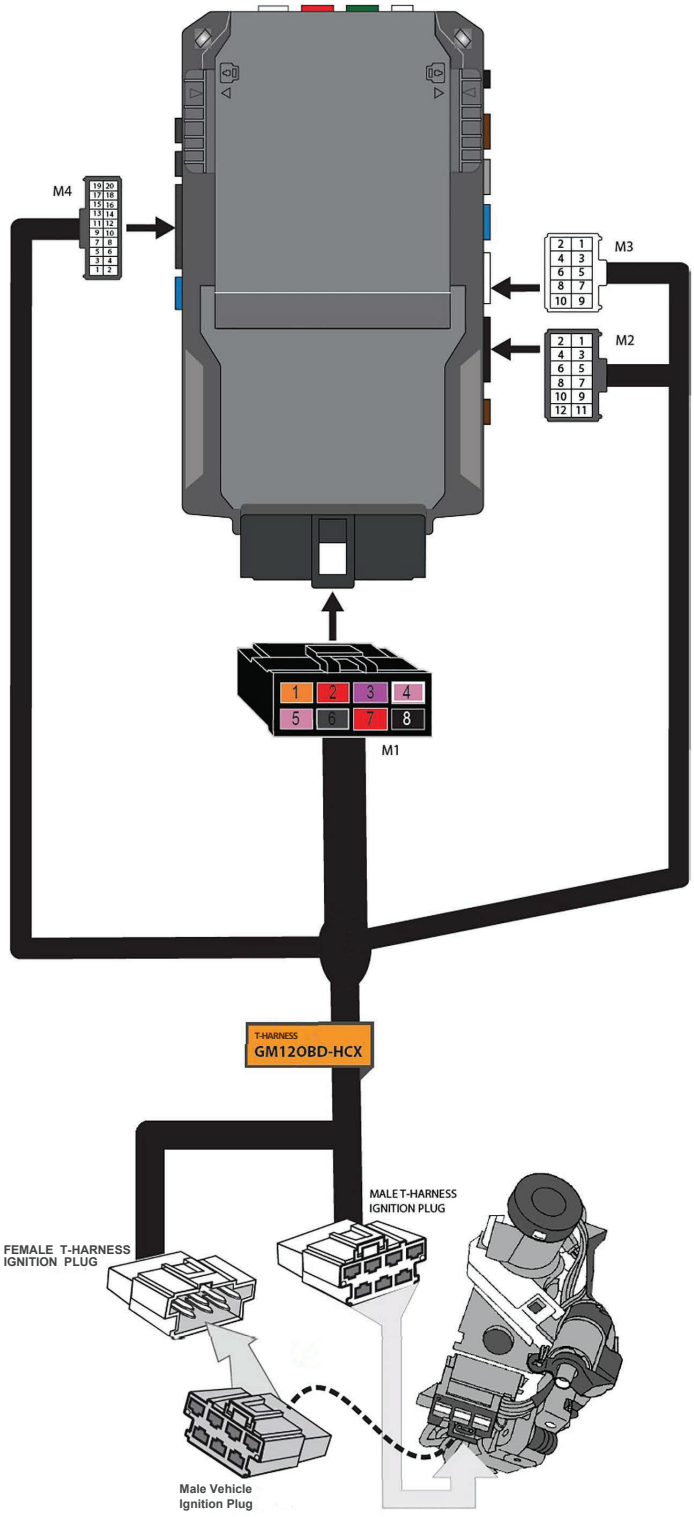
3 BRAKE SWITCH
CONNECTOR & WIRE



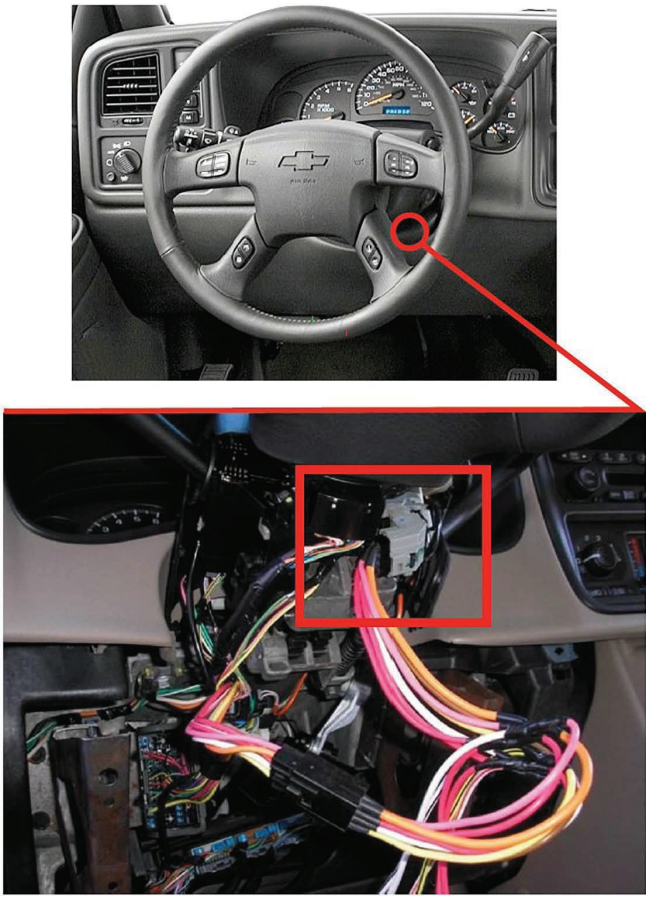
System Wiring Diagram



Step 2.1: Connect the Ignition T-Harness.

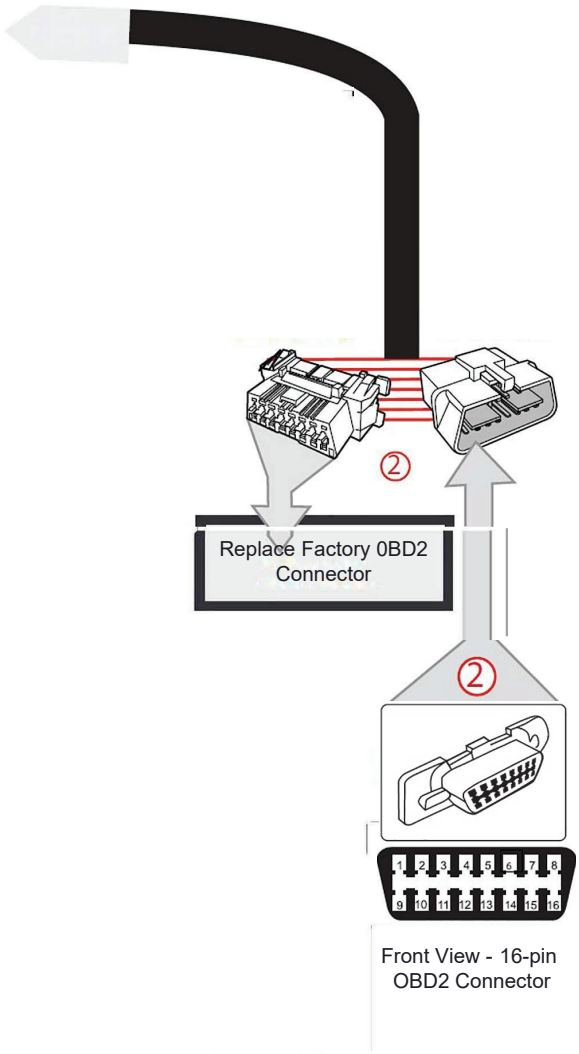


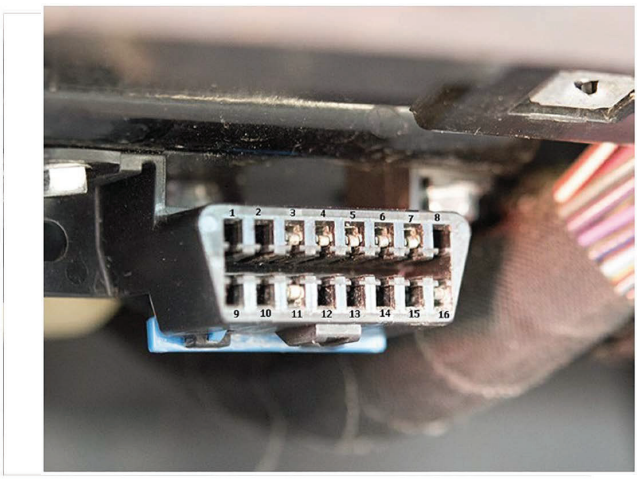
1. Unplug the ignition harness. It is located on the underside of the steering column, close to the steering wheel. (see photo)
2. Plug the larger male black plug from the T-Harness into the female receptacle under the steering column. It's a snug fit and will require a little maneuvering for the connector to snap in to place.
3. Plug the large female plug from the T-Harness into the ignition plug that you removed in step one. Make sure it snaps into place.
4. Plug the Black M 1 (8-pin), M2 (12-pin), M3 (10-pin), and M4 (20- pin) connectors from the T-Harness in to the remote starter module.

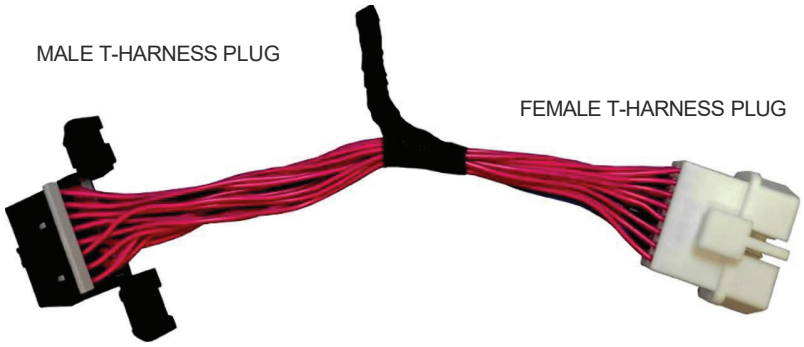


The above image is what the T-Harness will look like when it's plugged in. The connector in the red square of the photo is the factory ignition plug you're looking for. Unplug it and insert the male and female connectors of the T-harness between them. The male end of theT-harness plugs into the existing plug at the ignition and the femaile end to the existing connector that twas unplugged from the ignitiona barrel.nd the

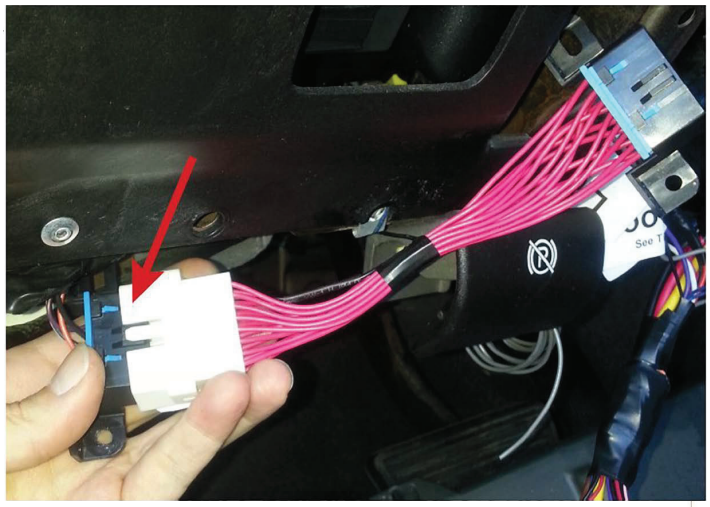
STEP 2.2: Connect the OBD2 T-harness.







Locate the OBD2 diagnostic plug. It will be located under the lower dash area on the drivers side.. Remove the two 7mm screws that hold it in place currently. Then plug the existing OBD2 connector into the White female receptacle on the T-Harness. Plug the Black 0BD2 connector from the T-Harness (the one that looks like the original connector) back into the original location.



Connect the OEM OBD2 connector to the White female connector coming from the T-Harness.



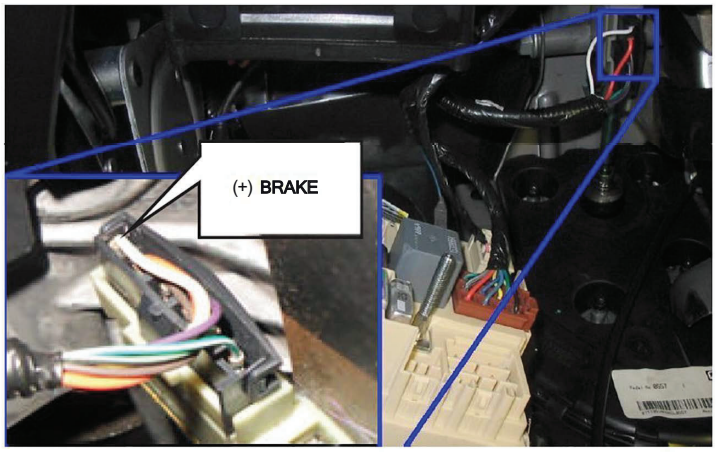
Mount the black male end of the OBD2 T-harness to the Oiginal OEM OBD2 location.

Step 2.3: Making the brake wire connection.

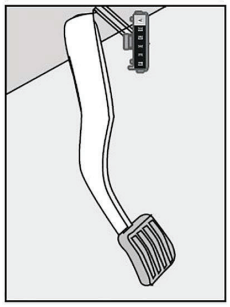


3 **Brake Switch** Connector at top of Brake Pedal

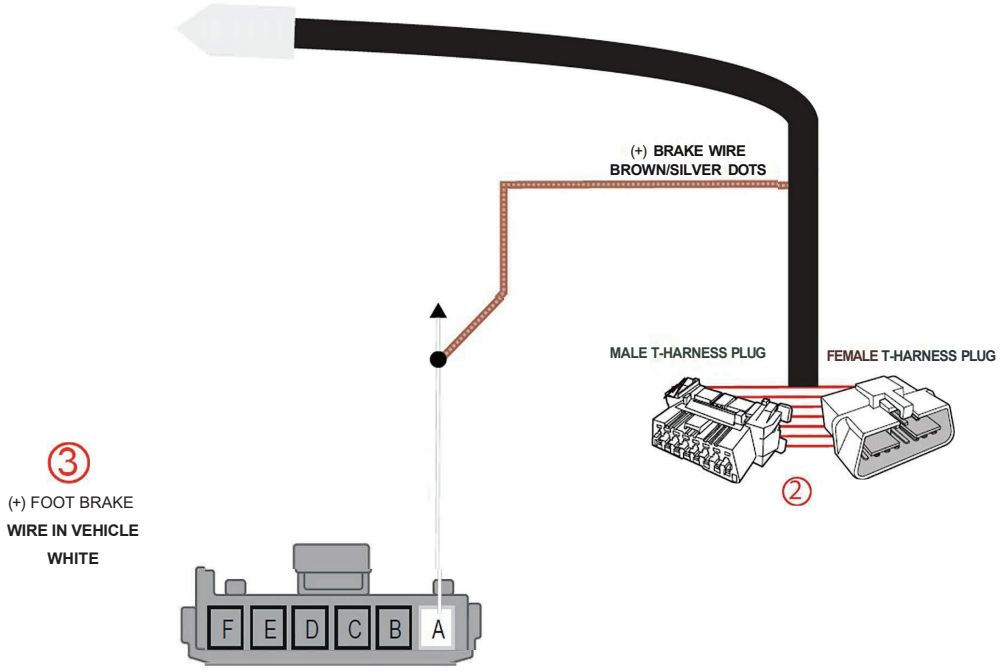
Brake wire is white



At brake switch.



Locate the 6-pin Brake switch connector located at top of brake pedal. The white wire at the brake switch should have 12 volts when the brakepedal is pressed. Take the loose Brown/Silver Dots wire from the T-harness and make a Splice or T-Tap connection to the White Brake wire at the Brake switch.



STEP 3: Programming Module & Remotes.

Your Remote Start module now needs to be paired to your vehicle.
Before starting the programming sequence, make sure that all of the connectors are plugged into the module and the antenna is plugged in.
Instructions for programming the Remote Start module are outlined below in 2 sub steps.

When the module is successfully programmed in step 3.1, continue following the guide to step 3.2 for steps to program the remote controls. You can move onto testing the system after the remotes are programmed unless you want to set a diesel delay or you are adding a Drone.

- You have the option of setting a delay of 3 to 15 seconds delay before the vehicle remote starts follow further down in the guide for diesel delay set up instructions. The module has a USB-C connection type.
- If you purchased a Drone smartphone module, follow this guide to the end for the installation and programming instructions.

*The image below is to help below to identify **LED 1, LED 2,** and the programming button location on the module that are talked about in programming steps.



STEP 3.1: Program the Module

01



Insert key into ignition.

Wait one second

02



Start the vehicle and hold key in crank position.

NOTE: It's important to keep the key HELD FORWARD and applying pressure in the Crank Start position until the green LED 1 turns on for 2 seconds and turns off. Hold in the start position without letting it fall back to ON/RUN, it can take up to a minute.

03



Wait, LED 1 will turn solid GREEN for 2 seconds.



04



Turn key to OFF position.

05



START vehicle wait for 15 seconds.

06

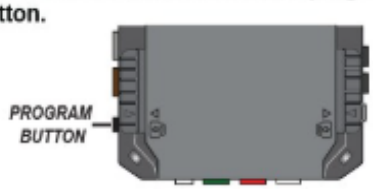


Press and hold the brake pedal.

07



Press and release the module's programming button.



08



Release the brake pedal.

NOTE: If the green led doesn't flash 2 times, check your brake wire connection.

09



Wait, LED 2 will flash GREEN.



10



Module Programming Procedure completed.

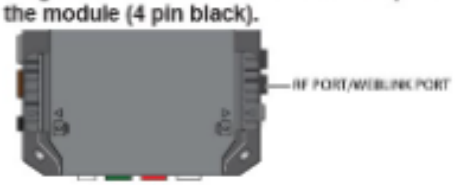
Note: If you have problems programming, perform a master reset shown on page 14, then start from start this programming over. If the issues continue, see page 11, use those instructions to re-configure the module.

Step 3.2: Program Remotes

Step 3.1 module programming must be done before this step.

>> 

Plug the antenna into the RF/Weblink port of the module (4 pin black).



01 

WARNING: Complete the module programming procedure and tach programming procedure before programming the remotes. A maximum of four [4x] aftermarket remotes per system.

02 

Set ignition to ON position.

03 

Press and release the antenna button, then press and hold the antenna button. The antenna's LEDs will turn ON solid.

04 

Parking Light will flash once [1x]. The HCX brain will click [1x].

05 

While holding the antenna button, press once [1x] on the LOCK button of each aftermarket remote

06 

The antenna's LEDs will flash once [1x] for each successful pairing.

07 

Release the antenna button. The antenna's LEDs will turn OFF.

08 

Set ignition to OFF position.

09 

Remote Programming Procedure completed.

Note1: If you one or both remotes will not pair, check the batteries in the remotes. See Page 12 to pair the remotes to the module using the Weblink software on a Windows PC with a USB port, follow the steps on the next page to manually enter each remote's serial number. Doing this eliminates the need to program the remotes in the vehicle. The module will recognize them when it's re-connected.

Note 2: If the remotes lock and unlock but won't start, you should hear 3 clicks followed by 1-15 more clicks, count those and refer to the error code diagnostic chart on Page 12.

Pair Remotes to the Module with WEBLINK Software & USB Cable

Windows PC or Laptop required. Follow these steps to pair the remotes to the module in the case of failed manual programming in step 3.2. The steps below also allow you to change features like run time and diesel.

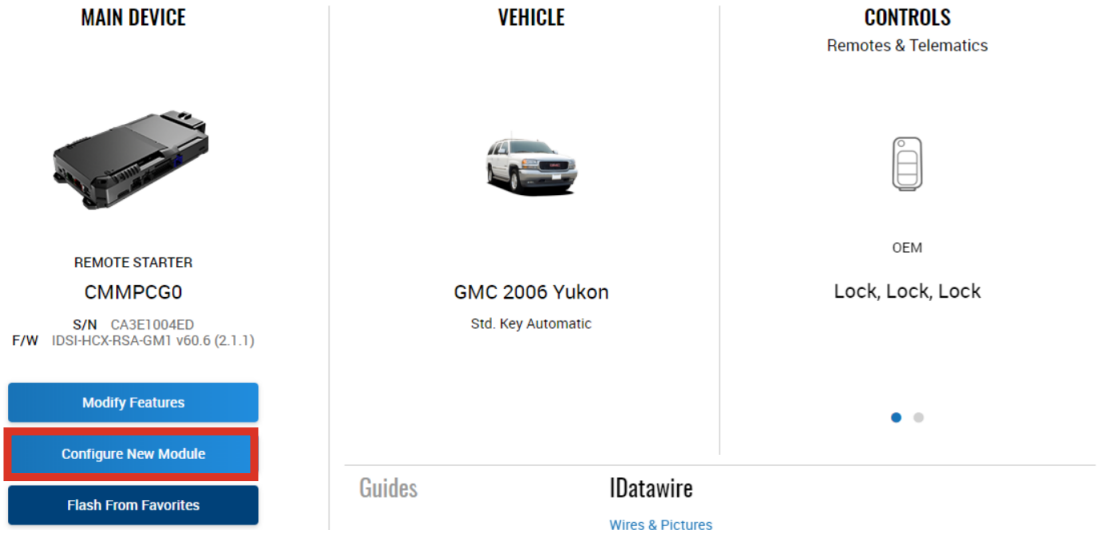
Step 1: Click or copy and paste the link below into your browser then download and save the software to your desktop so you can open it and log in using the credentials provided below.

www.weblinkupdater.com/weblinkdesktop/en

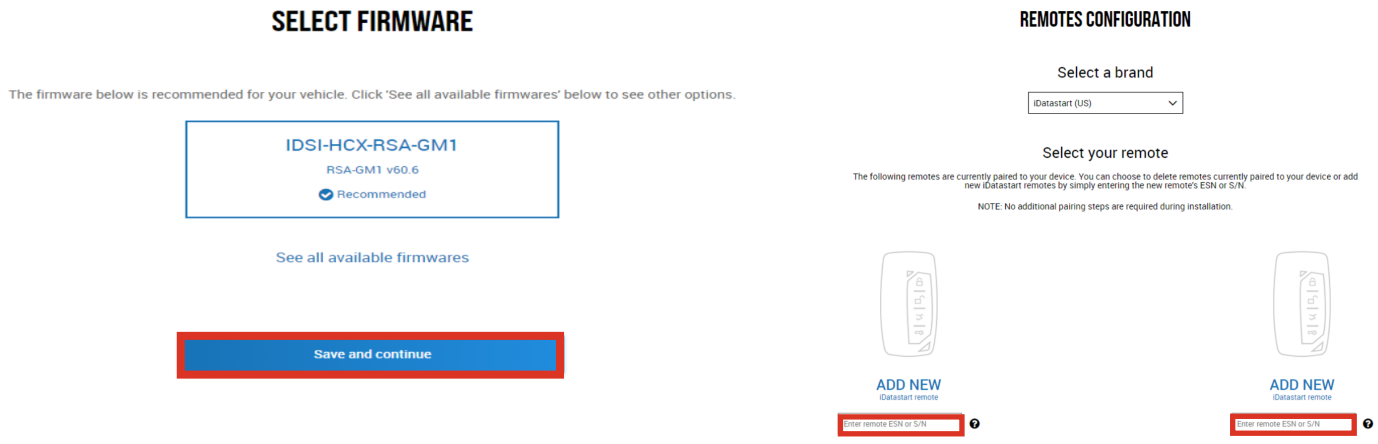
Step 2: Open the Weblink software you saved and Log in using these credentials and plug in the module :



Step 3: To pair remotes, choose configure new module enter your vehicle's info.then enter each Idatastart remote's serial number when prompted, save and go to Telematics then save and continue.



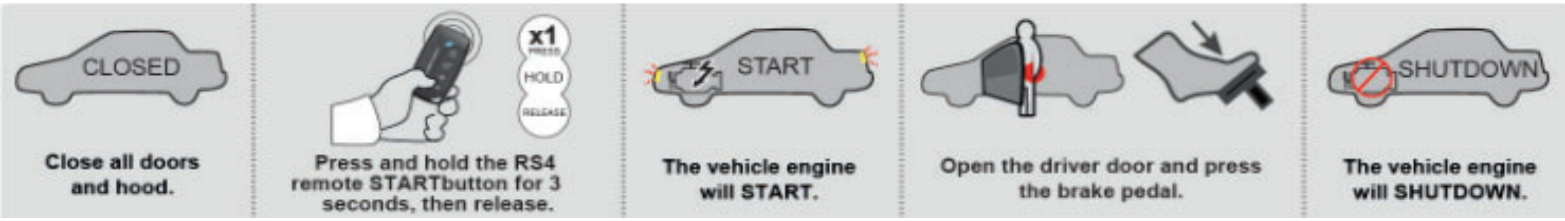
Step 4 : The Firmware is RSAGM1 and preloaded for all vehicles this kit covers, just save and continue through the remaining Quick Config and Features menu then you flash to finish.



Step 5: Unplug from the PC and bring to the vehicle, plug back into the vehicle being sure to plug in the M1 8 pin main harness first. If you reconfigured the module during this process, re-program from Step 3.1.

Step 4: Test the Sytem

1. Take all vehicle keys with you, and exit the vehicle. Make sure all doors and hood are closed.
2. Press the key button on the remote for approximately 3 seconds and release to activate the remote start. 3. A few seconds later the vehicle gauges should power up. Then a few more seconds later the starter should crank and the engine turn on. Make sure the vehicle stays running at least a couple minutes, and that the climate controls are working. If the optional parking light wire is connected, the parking lights will turn on when the vehicle is remote started as a visual indicator. The engine will remain running for 15 minutes (default) or until it receives signal from a shutdown mechanism.
4. Enter the vehicle and step on the brake pedal.
5. Pressing the brake pedal Pressing the brake pedal is the shutdown mechanism for the remote start. Opening a door is the shutdown mechanism for some push-to-start vehicle applications (refer to KEY TAKEOVER section). Make sure the shutdown mechanism is working. The remote starter can also be shutdown by another three second press and release of the key button command from the remote, or opening the hood.



Error code chart

When the system receives an activation command and you hear clicks from the HCX remote start module brain but the vehicle fails to start, Parking lights flash and HCX brain will click 3x times followed by a number of 1-15 parking light flashes/clicks. The second number of flashes/clicks corresponds to a remote start diagnostic error code.
The codes are as follows:

REMOTE STARTER ERROR CODES: NOTES	PARKING LIGHT FLASHES	DIAGNOSTIC
I WARNING: The following applies only when the parking lights are connected and supported by the system. If the parking lights are not connected, then listen for the clicks from the HCX Brain. II After a remote starter failure, the parking lights will flash and the brain will click three [3x] times followed by the error code. See table.	3 + 1	Tach is not programmed OR engine is already running.
	3 + 2	Key is in ignition ON position.
	3 + 3	Door is open.
	3 + 4	Trunk is open.
	3 + 5	Foot brake is ON.
	3 + 6	Hood is open.
	3 + 7	Loop is not cut.
	3 + 8	Vehicle failed to remote start.
	3 + 9	Vehicle movement detected (VSS).
	3 + 10	System is in Valet Mode.
	3 + 11	CAN communication failure
	3 + 12	RS not synchronized. Start vehicle with OEM key for 15 sec before trying a new RS sequence.
	3 + 13	Bypass problem.
	3 + 14	Idle mode or takeover is not available on this vehicle.
	3 + 15	Overheat protection.

- If your testing was unsuccessful, go back and re-check your wiring and programming. Make sure there are no bent pins or loose wires in theT-harnessor the connector plugs in the vehicle,and that all vehicle plugs you may have disconnected in the area you were working are properly re-connected. If you used a t-tap on the brake wire connection, make sure it's attached correctly and making solid contact or use the strip - poke - wrap - tape military splice method.
- 1 Flash means you need to Master Reset and Reprogram the Module from Step 3.1.
- 10 Flashes is Valet mode, to enter or exit valet mode, you can either use the vehicle key/ignition **(cycle ON/OFF twice, then press brake 3x)**, **or** the iDatastart remote **(ignition ON, press function/lock/trunk buttons), or** the **antenna button (hold for 5 seconds)**
- Once all wiring and programming are done, you should test the system to make sure everything is working properly before you finish installating. You have the option to set a diesel delay that will turn the ignition on for 3 to15 seconds before the remote starts, follow the steps on page 15 of the guide to select your preferred delay setting, you will need a Windows PC with a USB port.

Remote Operation

Kleinn Remote Start kits put the controls at your fingertips with this long range kit.
This system can accept up to 4 long range Idatastart remotes.
Your remote starter also has a dedicated port to accept a smartphone module. You can add a Drone to the the system and all existing controllers will function together. Ask a salesman for details. If you purchased a Drone smartphone upgrade kit, the installation instructions are included further down in this guide on Page 19.

⇒ Using the 4-Button 1-Way remote control:



KEYLESS ENTRY, & CONVENIENCE FUNCTIONS		
FUNCTION	**4 BUTTON**	**NOTE**
Lock	Tap	Locks vehicle doors
Unlock	Tap	Unlocks vehicle doors
Engine Start/Stop	3.0 Sec	Start or Shutdown Remote Start. Key Take Over: Turn ignition to 'ON' position (not start), press brake pedal.
Run Time Extender	F - 3.0 Sec	Durring remote start, the system will restart the internal run timer.

Master Reset Procedure

This is not part of the normal programming, this reset is only required if you can't get past step 3 or if there are any glitches, in that case, perform this reset and start programming from step 3.1.

NOTE: SYSTEM RESET DOES NOT ERASE A FIRMWARE PROGRAMMED TO THE MODULE, OR ALTER ANY SETTINGS IN THE OPTION MENUS. ANY OPTION CHANGES REQUIRE YOU TO CONNECT THE MODULE TO THE WEB OR A MOBILE DEVICE USING A WEBLINK PROGRAMMER AND THE CREDENTIALS PROVIDED ON PAGE 11.

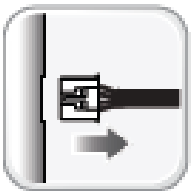
HCX Reset Procedure

>>

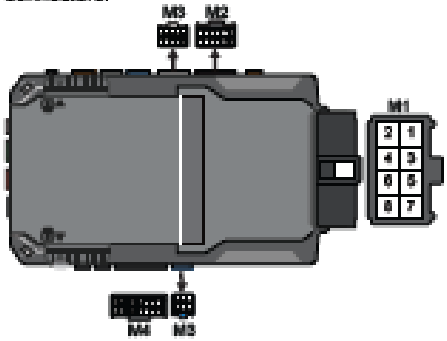


The following procedure resets the module programming to teh vehicle. It does not reset and settings configured in the firmware set up.

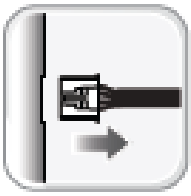
01



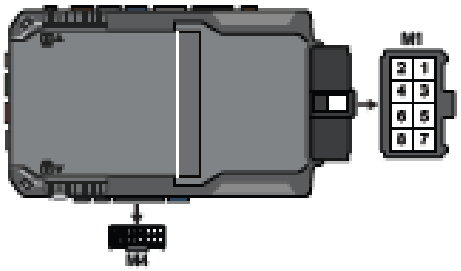
Disconnect all connector from the module except for the **M1** BLACK 8-pin and **M4** BLACK 20-pin connectors.



02



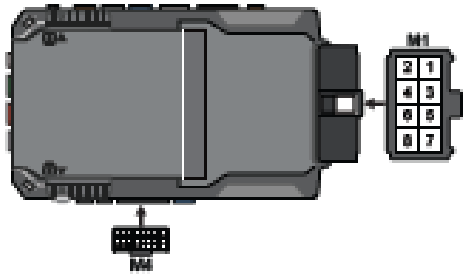
Disconnect the **M1** BLACK 8-pin and the **M4** BLACK 20-pin connectors.



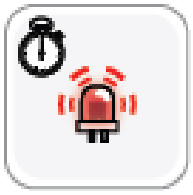
03



PRESS AND HOLD the module's programming button. While holding down the program button. Connect the **M1** Black 8-pin connector and the **M4** Black 20pin connector.



04



Wait for LED 1 to flash Red. RELEASE programming button.



NOTE: THE FLASHING LED WILL TURN OFF WHEN YOU RELEASE, YOUR MODULE MAY NOT TURN RED FOR 2 SECONDS, EITHER WAY IT IS RESET.

05



LED 1 wolll turn Red. for 2 seconds

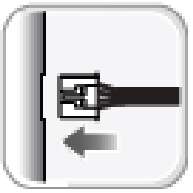


06

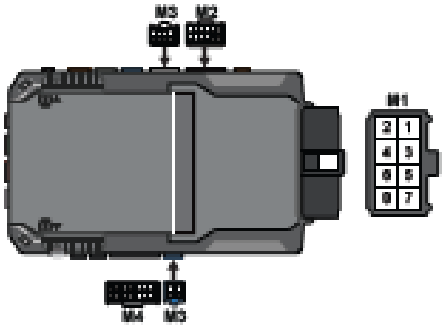


Module RESET complete

07



Reconnect all other connectors



08



Redo the module programming steps

>>



Failure to follow this procedure may result with a DTC or a Check ENGINE error message

Diesel Delay Instructions

Diesel Delay Setting

This setting is only reqiured for Diesel vehicles





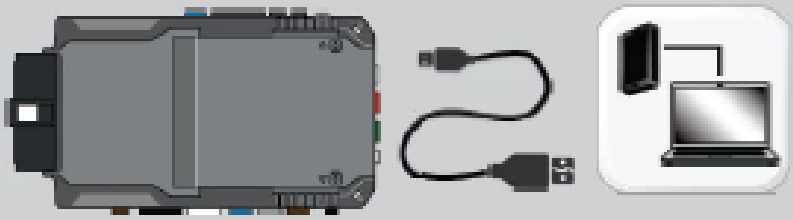
WARNING: Disconnect power last when disconnecting module from vehicle.

Disconnect all connectors first, then the M1 8-pin (Main Harness).

Goto www.weblinkupdater.com/weblinkdesktop/en

Use this user name: **flash@mypushcart.com**

Use this password: **MPCflash2025!**

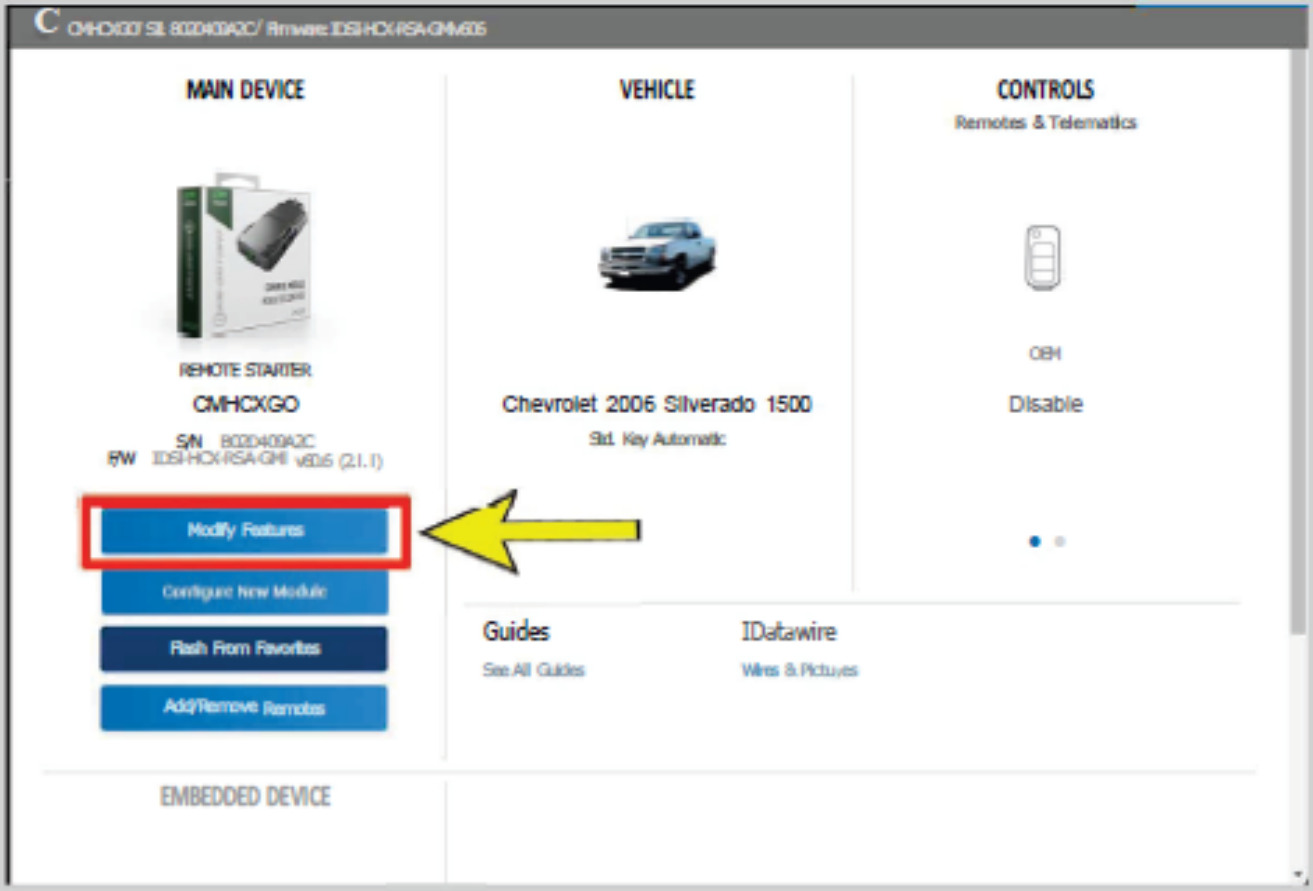


Download WEBLINK updater Program
You will need to download this program to do the WebLink desktop. It requires a Windows pc or MAC with USB and a USB-C to USB cable.

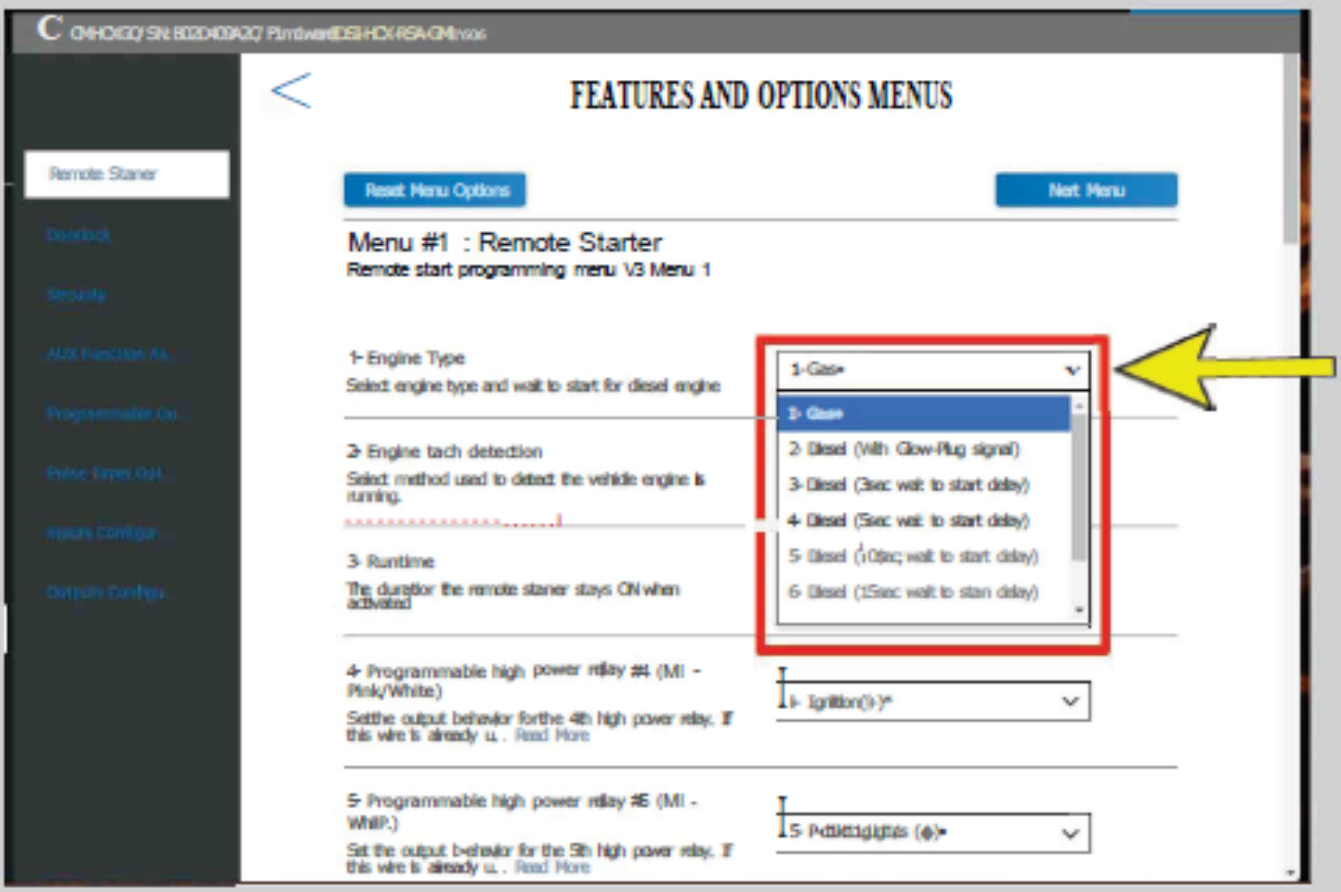


Install and Login in to WEBLINK Updater. Select Weblink RS Flash remote Starter.

Diesel Delay setting change continued



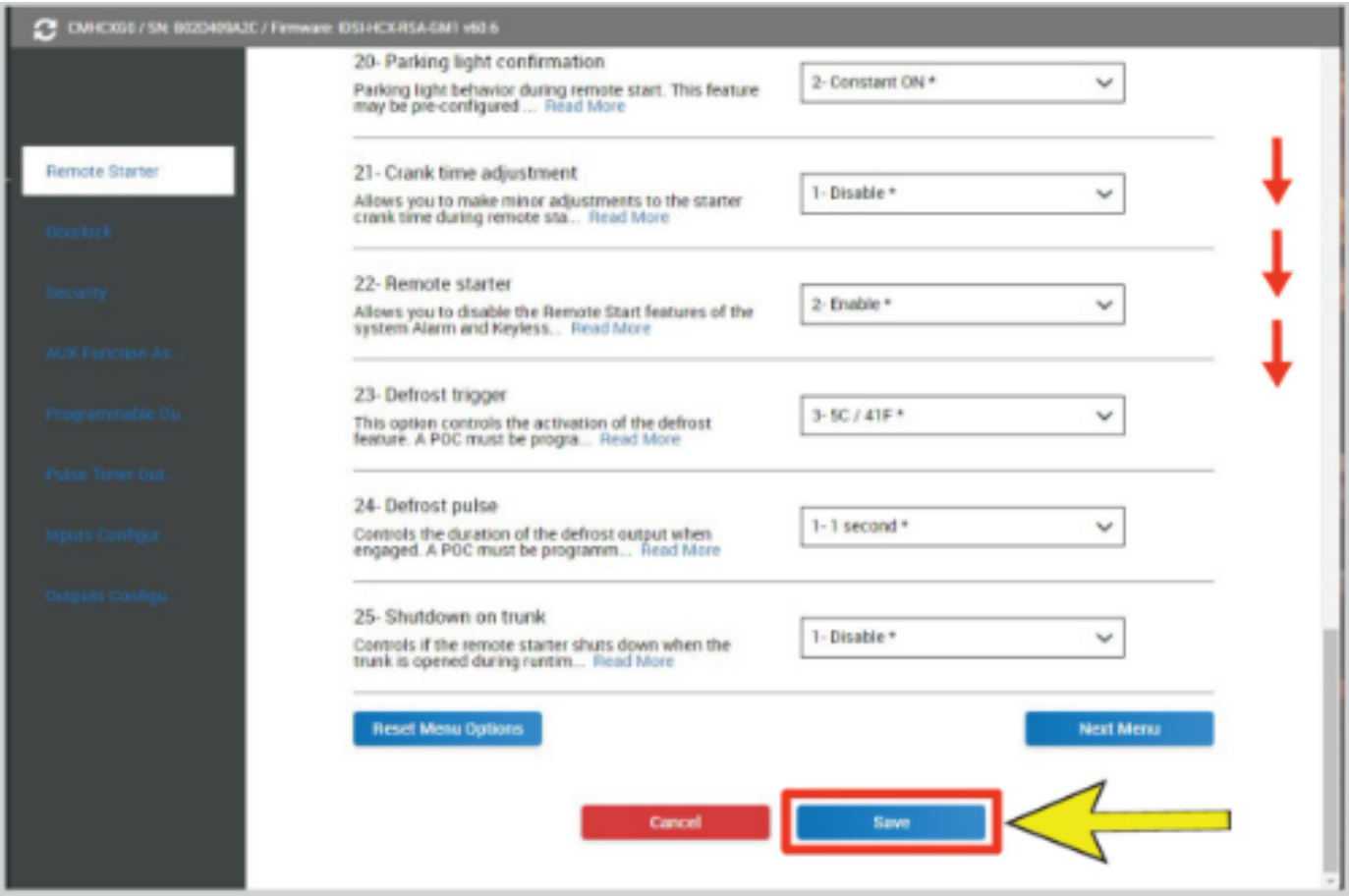
Once the device loads, select Modify Features.



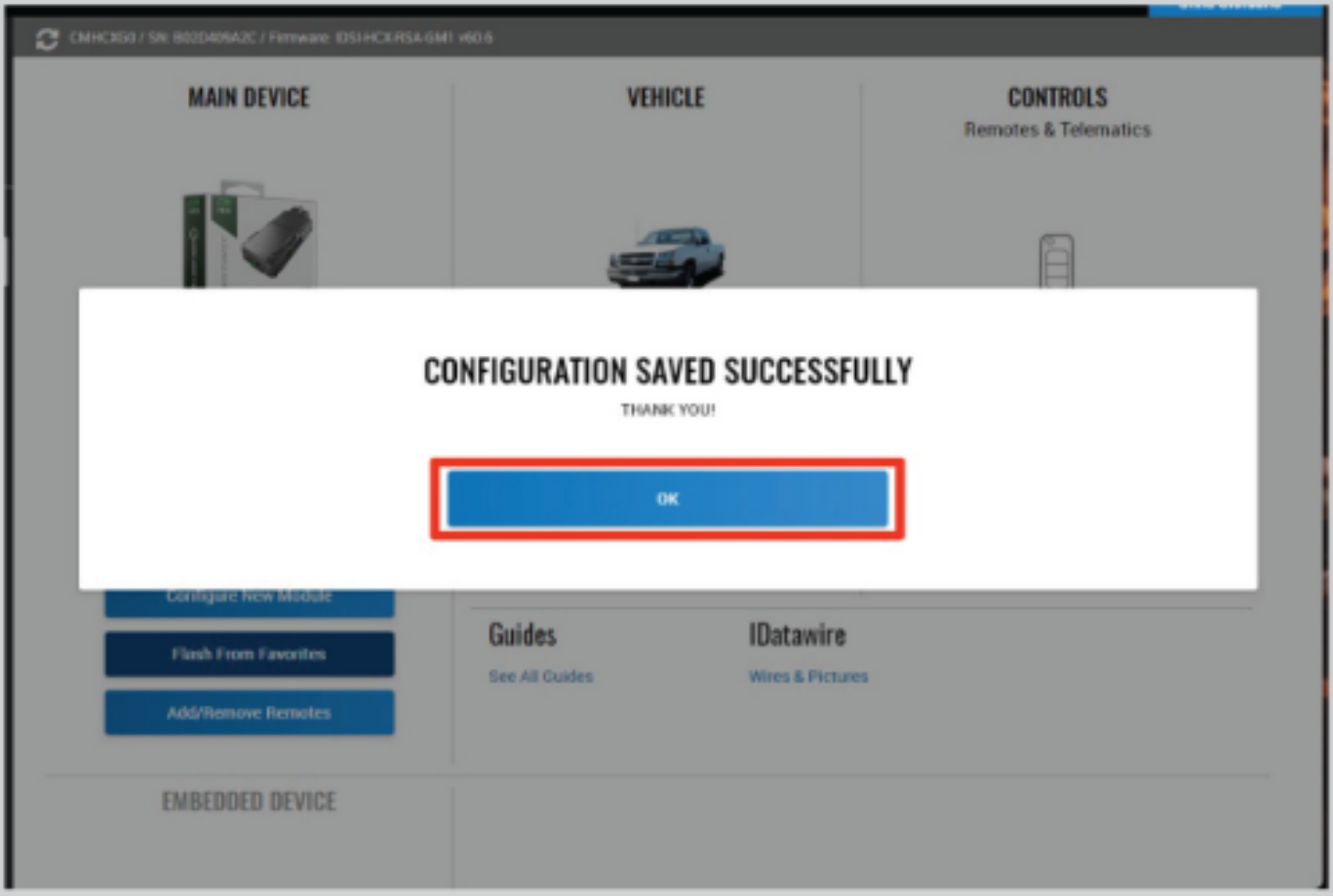
Select 1-Enigine Type drop down menu. Select your desired Diesel delay option.

NOTE: Option #2 Diesel (with Glow-Plug Signal) Not supported for this vehicle.

Diesel Delay setting change continued



Scroll to the bottom of the page and select Save..



Once Configuration is Saved Sucessfully, select OK.

Diesel Delay setting change continued



⇒ Test the remote starter:

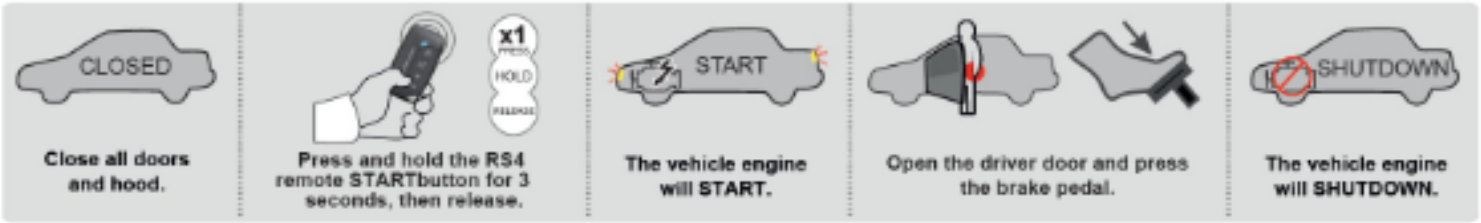
1. Take all vehicle keys with you, and exit the vehicle. Make sure all doors and hood are closed.

2. Press the key button on the remote for approximately 3 seconds and release to activate the remote start.

3. A few seconds later the vehicle gauges should power up. Then a few more seconds later the starter should crank and the engine turn on. Make sure the vehicle stays running at least a couple minutes, and that the climate controls are working. If the optional parking light wire is connected, the parking lights will turn on when the vehicle is remote started as a visual indicator. The engine will remain running for 15 minutes (default) or until it receives signal from a shutdown mechanism.

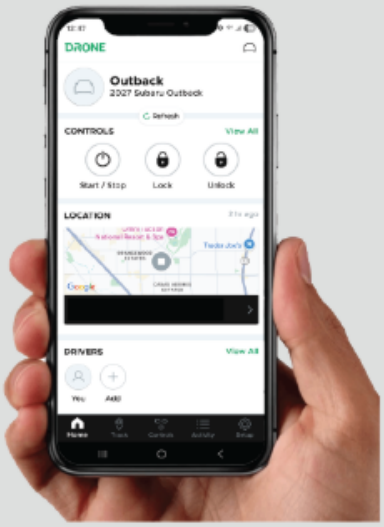
4. Enter the vehicle and step on the brake pedal.

5. Pressing the brake pedal is the shutdown mechanism in most applications. Opening a door is the shutdown mechanism for some push-to-start vehicle applications (refer to KEY TAKEOVER section). Make sure the shutdown mechanism is working. The remote starter can also be shutdown by another three second press and release of the key button command from the RS4 remote, or opening the hood.



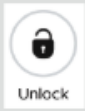
Drone Installation

REMOTE STARTER FUNCTIONALITY





Tap the Lock icon to Lock the Doors



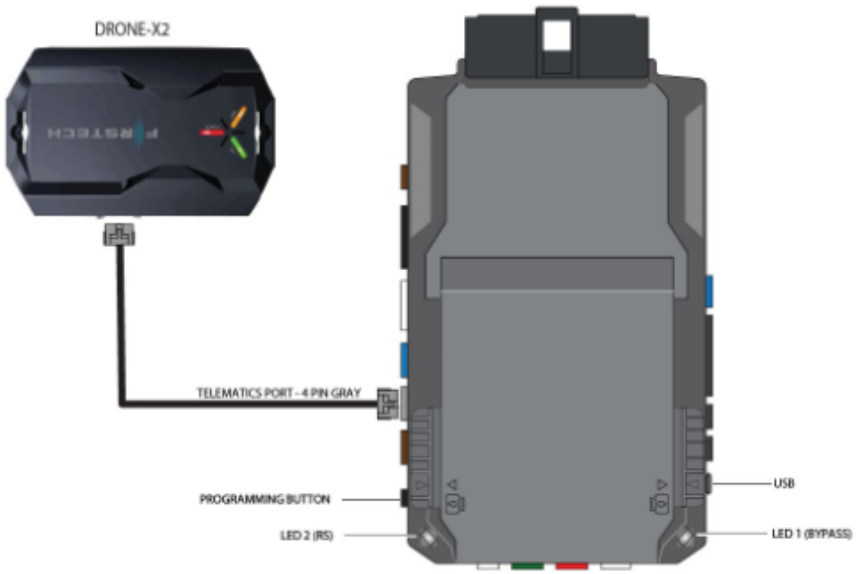
Tap the Unlock icon to Unlock the Doors



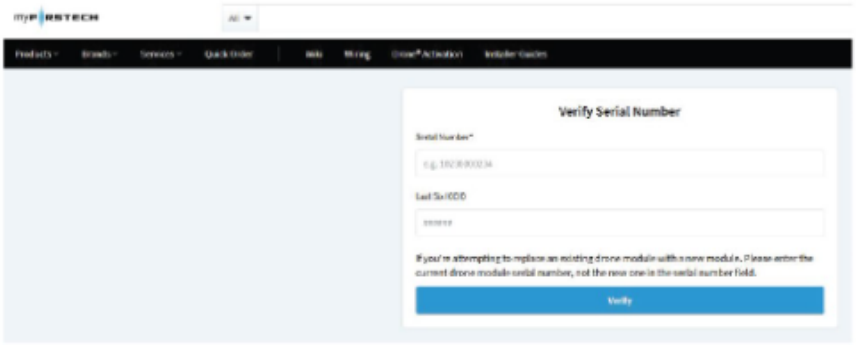
Tap the Start/Stop icon to Remote Start the vehicle,
Tap the Stop/Stop icon to Shutdown the Remote Start.

DRONE CONNECTION AND ACTIVATION

Connect the DATA cable to the HCX brain at the 4-pin GRAY Telematics port. Connect the other end of the DATA cable to the 4-pin GRAY port on the DRONE module (see image below).



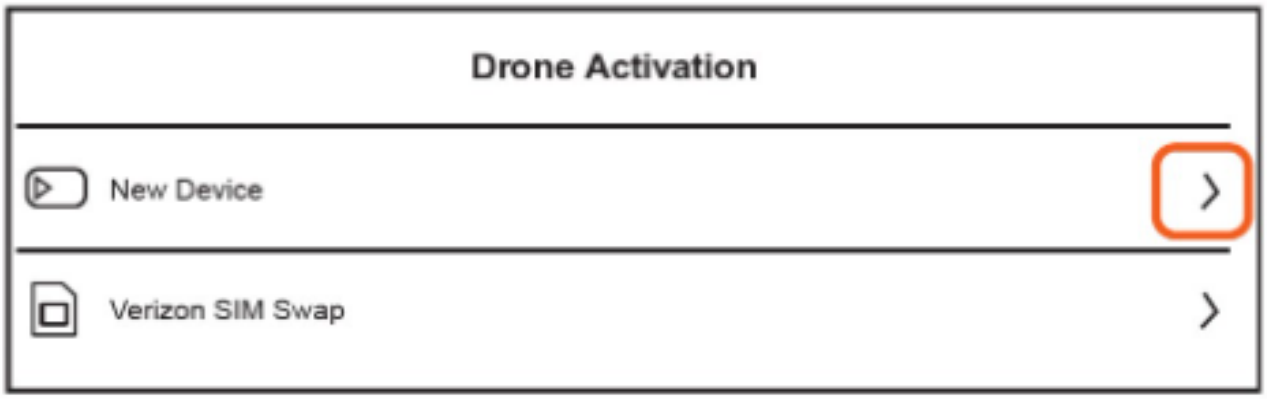
Once the DRONE module is connected and powered, confirm that the 3 LED's on the top of the module are flashing.
Go to **www.myfirst.com/activation** (see image below) using a PC or MAC desktop, laptop computer or smartphone browser.
From there enter the Serial Number and The last six numbers of the ICCID located on the botton of the DRONE module and select Verify as shown below.





Once you have enterted the Serial Number and ICCID select Verify.

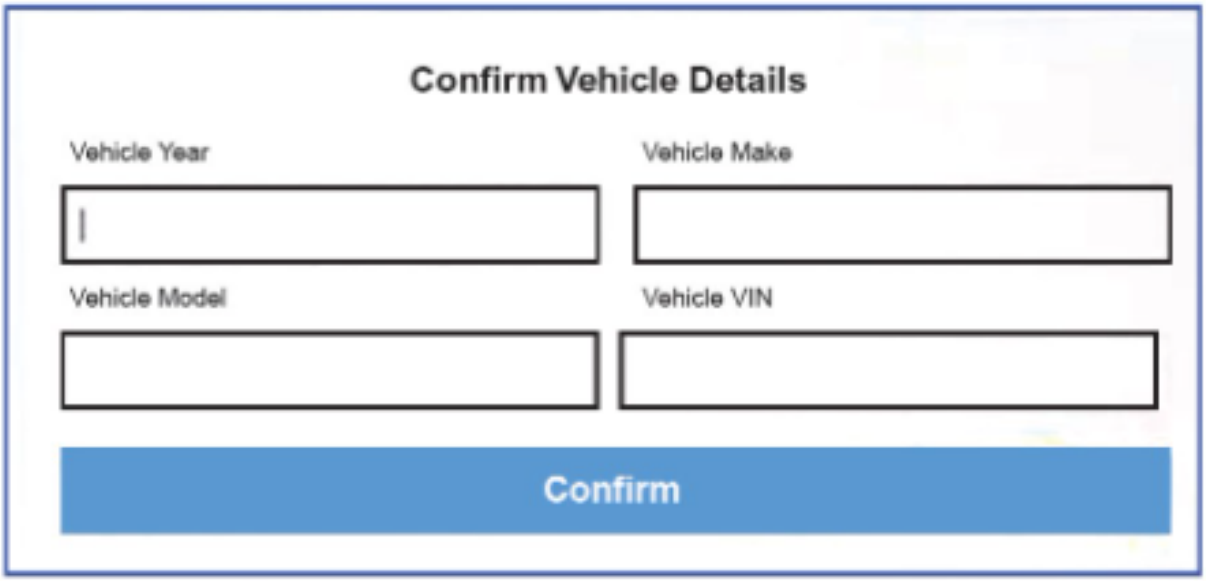
Drone Continued



Select New Device

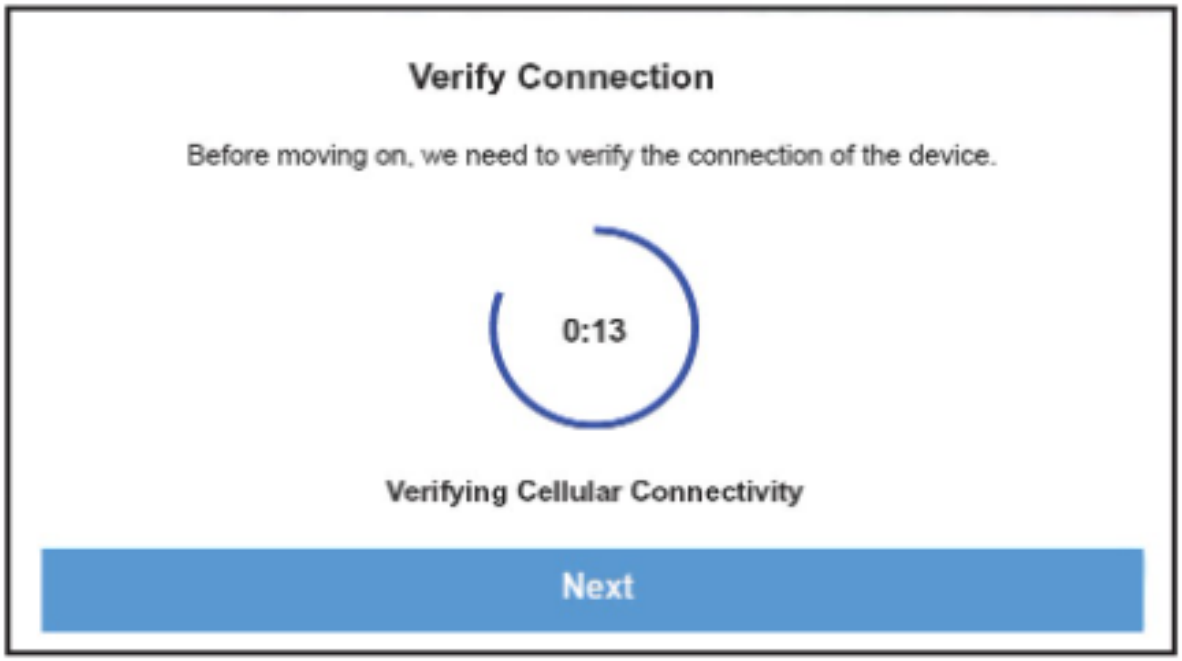


The DRONE module has already been powered at the connection step above, click Next.



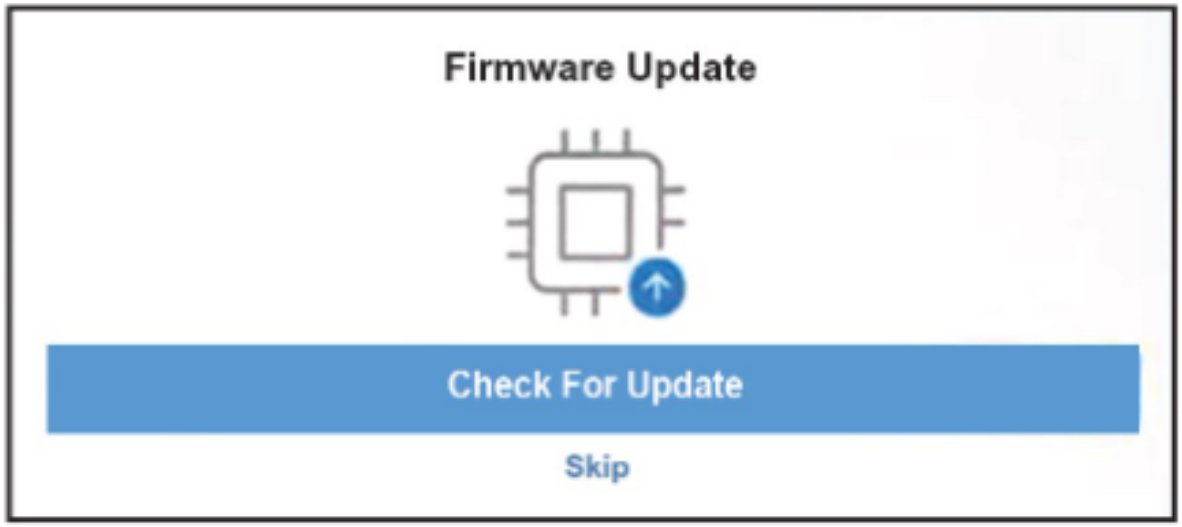
Enter the vehicle information. You do not have to eneter the vehicle VIN and click Confirm.

Drone Continued



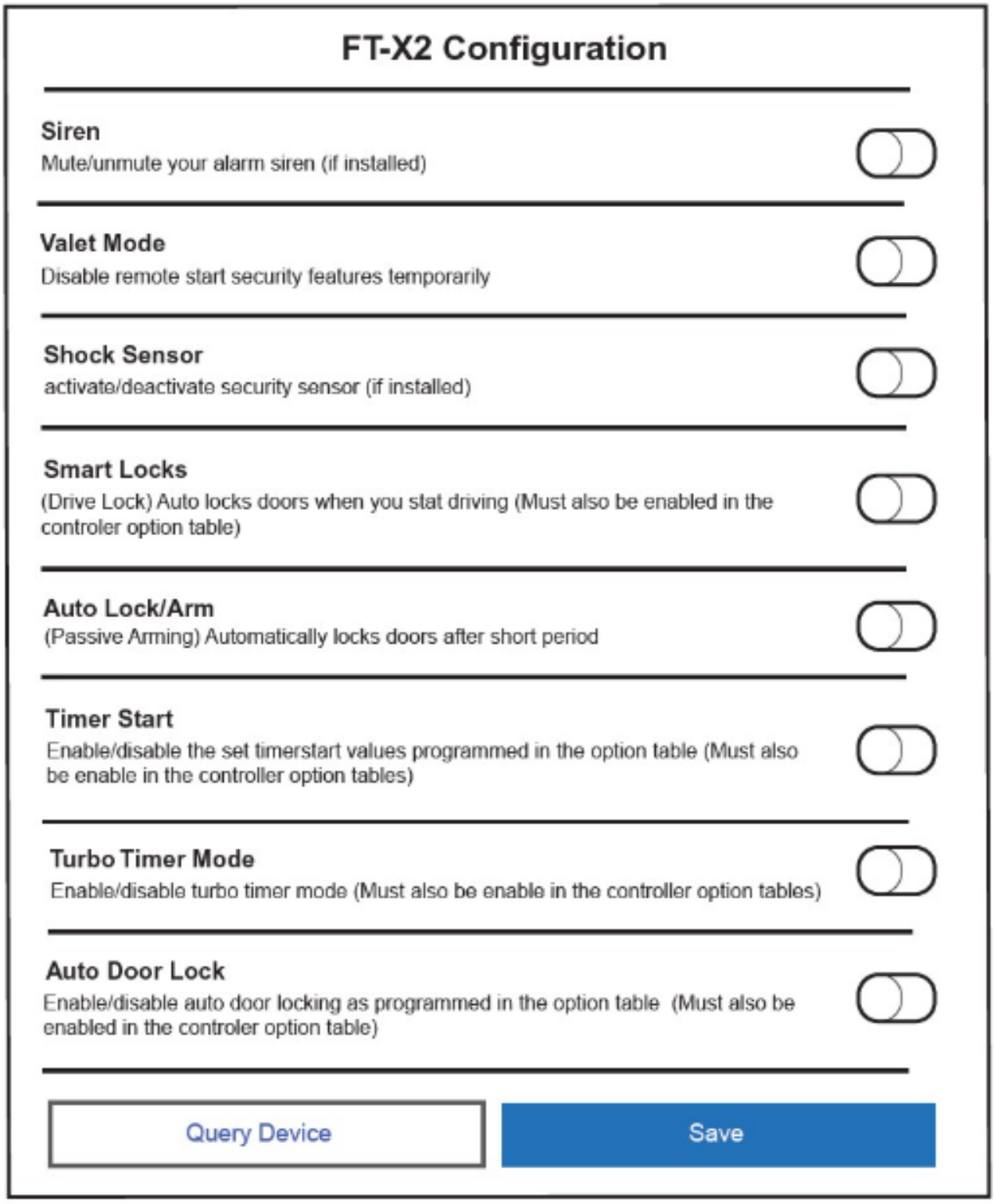


Once the Connection has been verified, click Next..



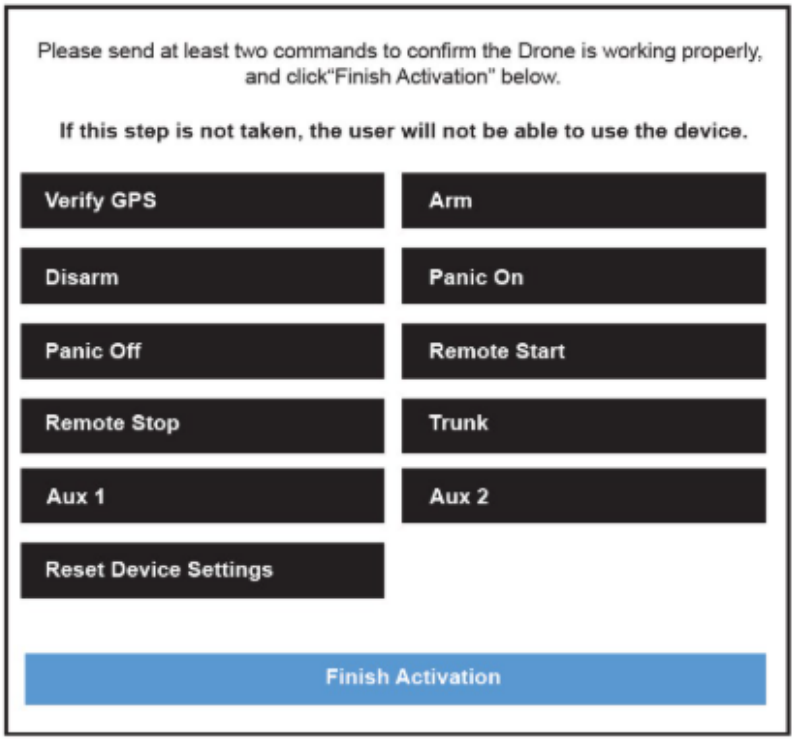
The Drone module is updated to the most recent firmware, click Skip.

Drone Continued



All settings at the configuration should be set Off, click Save.

Drone Continued

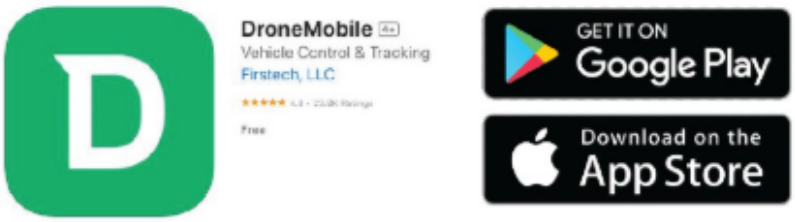


In the Test Portal, test at least 2 commands. Once commands have been tested successfully, click Finish Activation.



Click on Finish. Activation is now complete.

Once the DRONE web-test and activation is finished, go to your Google Play Store or Apple app store to down the Drone Mobile app. Once you have downloaded the Drone Mobile app, register and add your vehicle to the app.



If you have any installation questions or problems, call for tech support
Or Email info@kleinn.com

520.579.1531

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