Installation Guide

2013-2018 RAM Trucks
Select 2011-2024 Cars & SUVs
Key & Push-to-Start | 3x Lock

Kleinn SKU # - RSRAM71

Years	Chrysler (Key & Push-to-Start)													
2011-2017	300	11	12	13	14	15	16	17						
Years	**DODGE (Key & Push-to-Start)**													
2015-2017	Challenger					15	16	17						
2011-2017	Charger	11	12	13	14	15	16	17						
2014-2024	Durango				14	15	16	17	18	19	20	21	22	23	24
2011-2017	Journey	11	12	13	14	15	16	17						
Years	**Jeep (Key & Push-to-Start)**													
2014-2021	Grand Cherokee				14	15	16	17	18	19	20	21		
Years	**RAM (Key & Push-to-Start)**													
2013-2018	1500 Trucks (Also 19-24 Classic)			13	14	15	16	17	18					
2013-2018	2500 Trucks			13	14	15	16	17	18					
2013-2018	3500 Trucks			13	14	15	16	17	18					
2013-2018	4500 Trucks			13	14	15	16	17	18					

Compatible with automatic transmission vehicles manufactured for sale in the US and Canada.Only

Introduction:

- This is a pre-wired 100%% plug and play kit and require no hardwire connection.
- All models require the 12A t-harnesses, 2018 and up also require the 12B t-harness.
- We have already loaded the correct firmware into the remote start module. You will need to pair the module to your vehicle when the installation is complete. Instructions begin on page 7.
- 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.

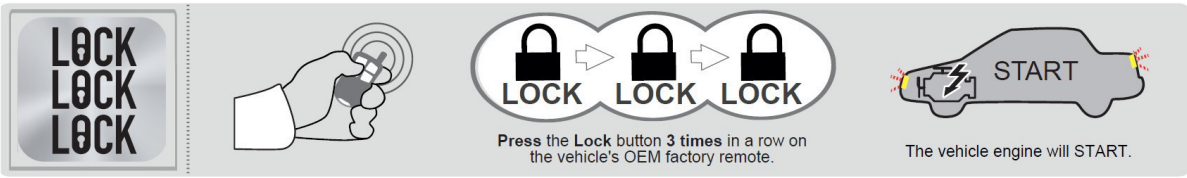
(If not equipped with keyless entry or for increased range, add the Kleinn RFKIT1 Remote Upgrade kit)

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. This guide is subject to change without notice. Refresh your browser cache or use different browser (Edge, Chrome, Firefox, etc.) to view the latest update.

Remote Start Activation

Remote Starter Activation: Press Lock>Lock>Lock in succession on your OEM remote to start the vehicle.



Check out our extended range RF Remote or Smartphone Control upgrade kits

Click Here for Upgrade Options

- **IMPORTANT FIRMWARE NOTE FOR STANDARD KEY Models: The firmware has been pre-flashed for all PUSH-TO-START vehicles.** Push start models can begin the installation in the vehicle.
- **STANDARD KEY vehicles** will first need to flash the firmware to **"RS8"** in **Step 1** after installing Weblink by selecting "Configure New Module" and flashing your module with your vehicles make, model, key type.



Parts Required:

- Idatalink HCX Module Pre-Flashed RS7 (Key start models need firmware changed to RS8)
- T-Harness CH12A-CH12B -USBC Flash Cable

Overview

There are 5 basic steps to this remote start installation:

1. Preparation
2. Wiring
3. Programming
4. Testing the system
5. Finishing up!

STEP 1: Preparation

This remote start kit is a **PLUG & PLAY INSTALLATION TYPE**. This kit uses a plug-in T-Harness which eliminates any hardwired "wire-to-wire" connections that are typically required. The physical attachment of this product will require only plug-in connections. Simply plug the T-Harness into the vehicle, then program the module and the remote 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.

Download and Save the WEBLINK Software to your PC or Laptop

PUSH-TO-START VEHICLES: We have preloaded the correct firmware to make your system work, but the type of anti-theft system in your vehicle requires a final “KLON” programming process that can only be done after the installation is complete and the Remote Start has read your key code. You will need to download and install a program to do this. It requires a Windows or MAC computer with internet access and a USB port. Download it in preparation for the "KLON" programming in Step 3.

KEY-TO-START VEHICLES: Before you install the HCX module in your key start truck, log in to WEBLINK after you download and save the software. Plug in the module to the USB port and choose "Configure New Module". The software will prompt you through the steps to choose your specific year, make, model, and key type to change the firmware to RS8, the require firmware for Key Start Trucks.

Click here to download the WEBLINK Software

Use this username: **flash@mypushcart.com**

Use this password: **MPCflash2025!**

WHERE TO FIND YOUR WIRES

RAM TRUCKS

② At HEADLIGHT SWITCH

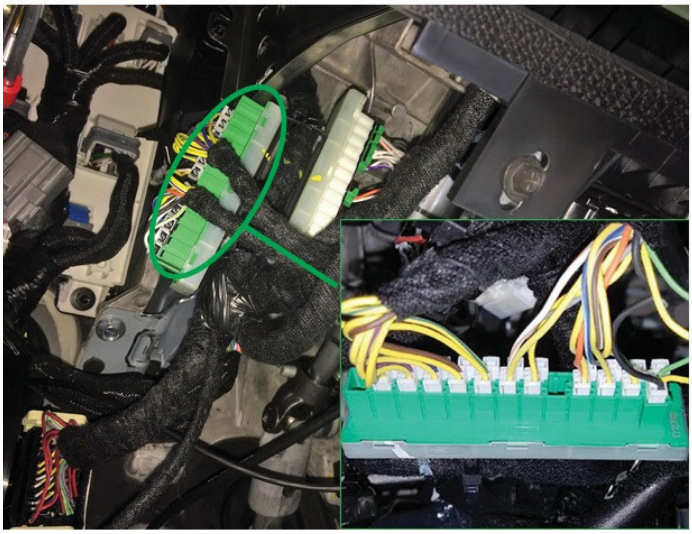


① At push button or key barrel

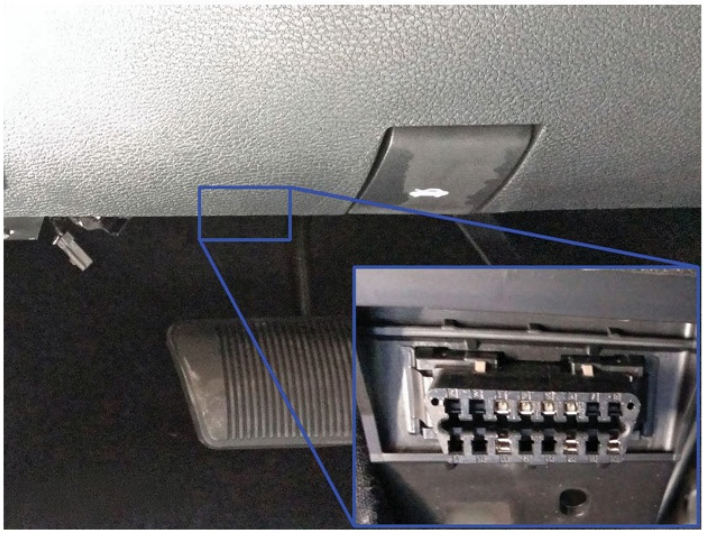




④ At CAN JUNCTION AT LEFT END OF DASH

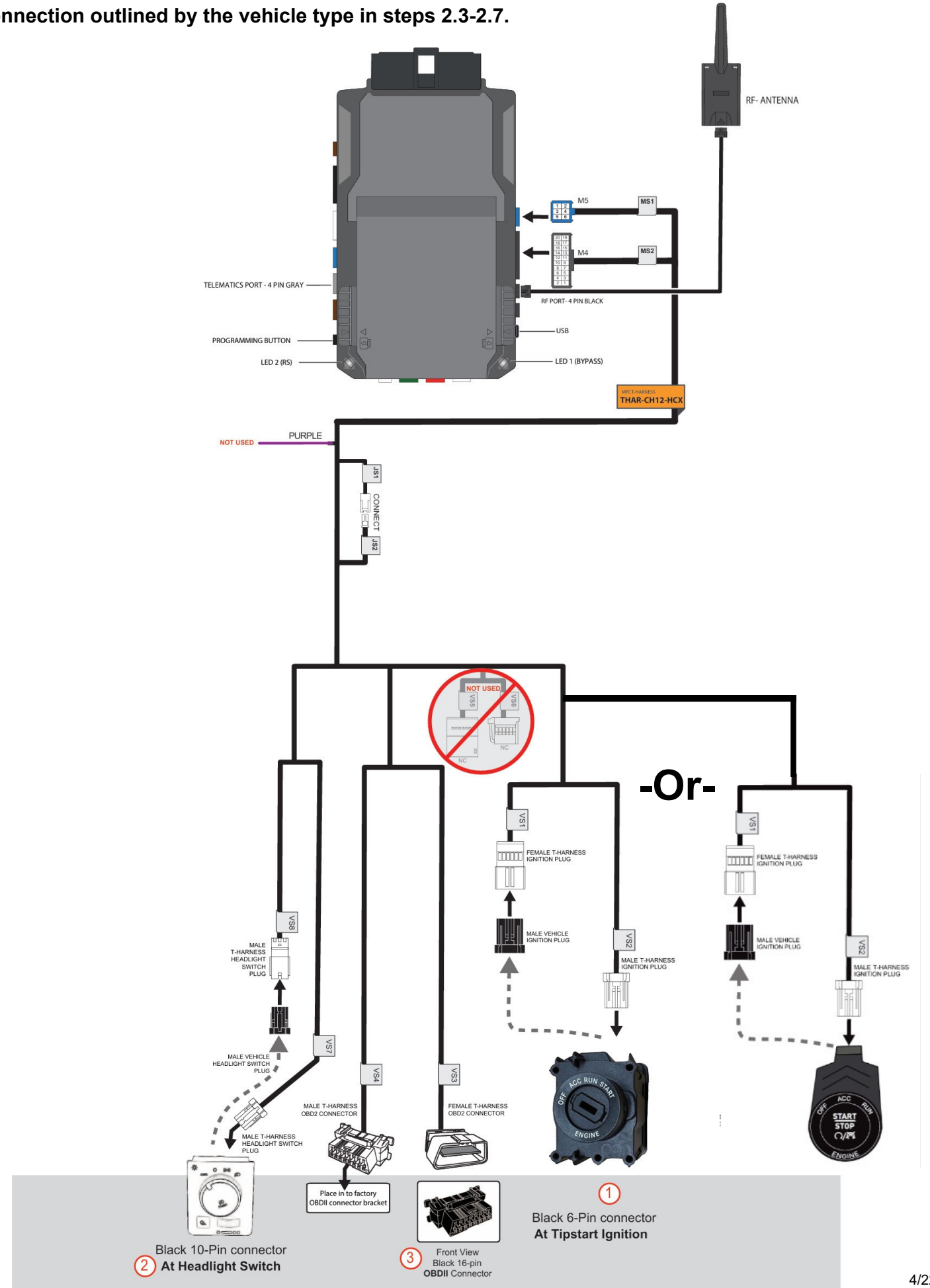


③ At OBD2 PORT



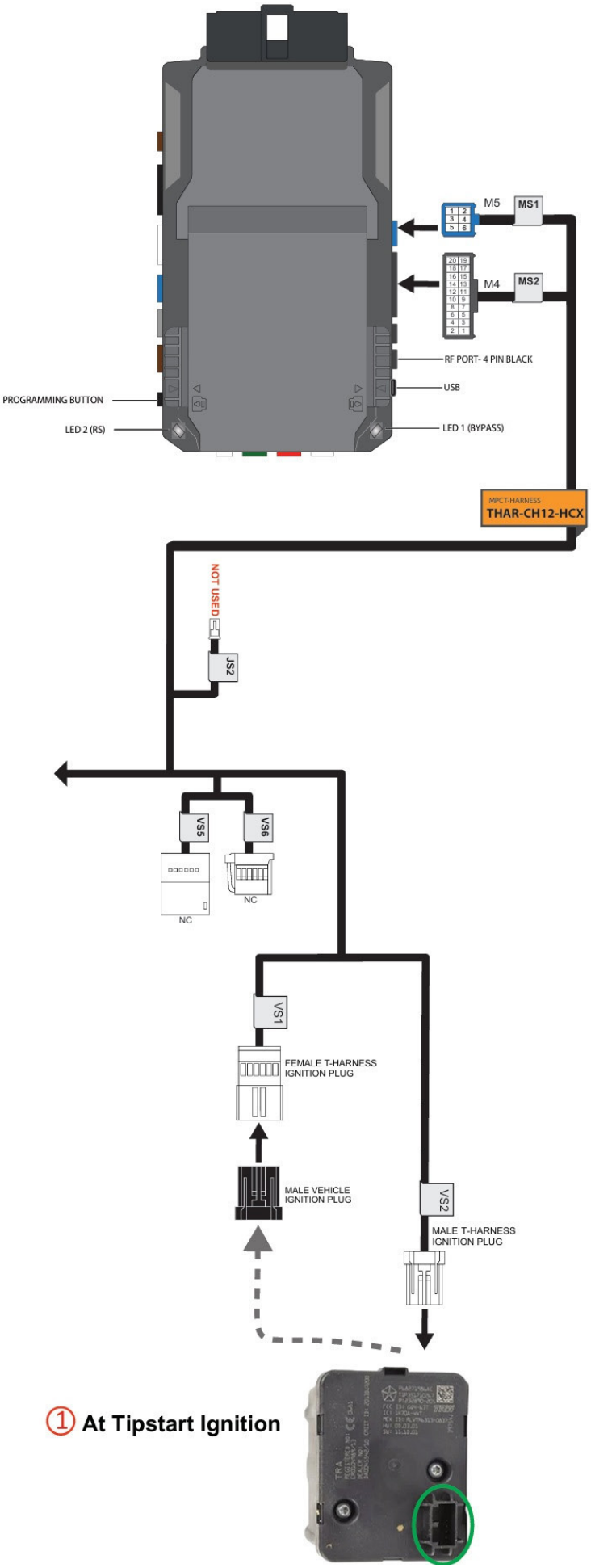
WIRING SCHEMATIC OVERVIEW

- **This guide covers multiple models, all will require the CH12A connections shown in this overview**
- **2018-2024 models require the CH12A connections in this overview PLUS the CH12B T-harness connection outlined by the vehicle type in steps 2.3-2.7.**



Step 2: 12A T-Harness Ignition Connection All Models

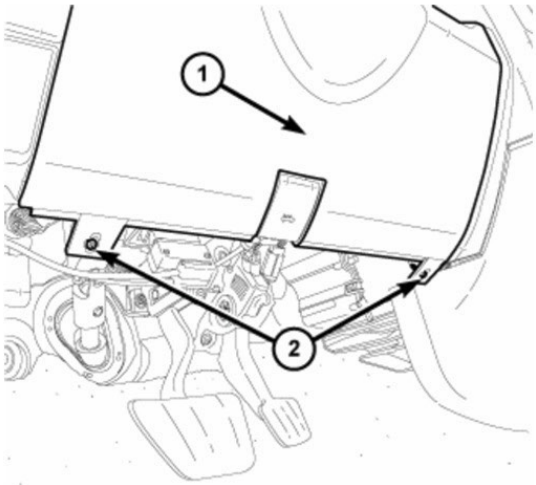
CONNECTING THE T-HARNESS



① At Tipstart Ignition

Remove the knee bolster from the drivers side by removing 2 screws at the bottom of the panel and popping off the panel toward the drivers seat with the aid of a panel removal tool.

Locate the Black 6-pin connector at the back of the Tipstart Ignition Switch. Unplug the Black factory 6-pin connector from the back of Tipstart switch and plug it in to the the female VS1 16-pin plug from the T-Harness. Plug in the male VS2 16-pin plug from the T-Harness into the back of factory Tipstart switch. Make sure it snaps into place.



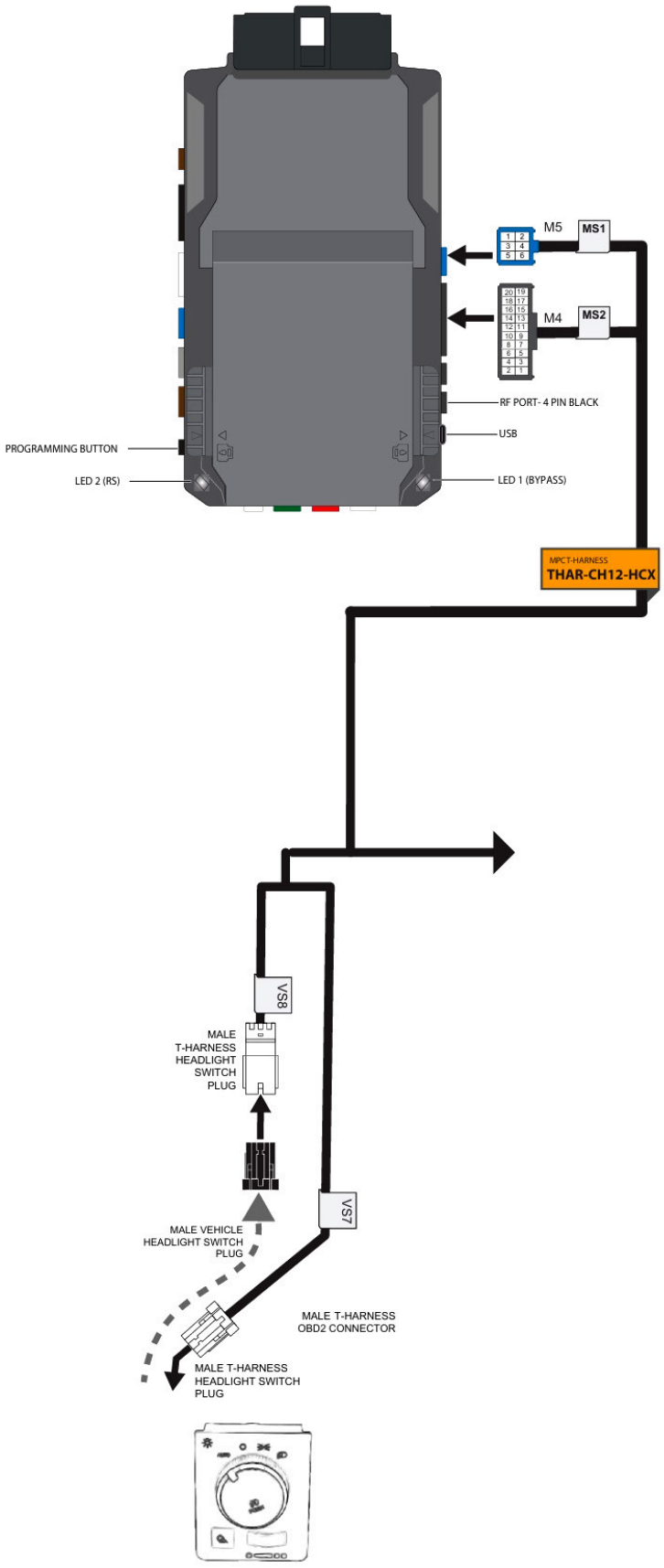


① At Tipstart Ignition Switch



Step 2.1: Parking Light Connection All Models

CONNECTING THE T-HARNESS



② Black 10-Pin connector
At Headlight Switch

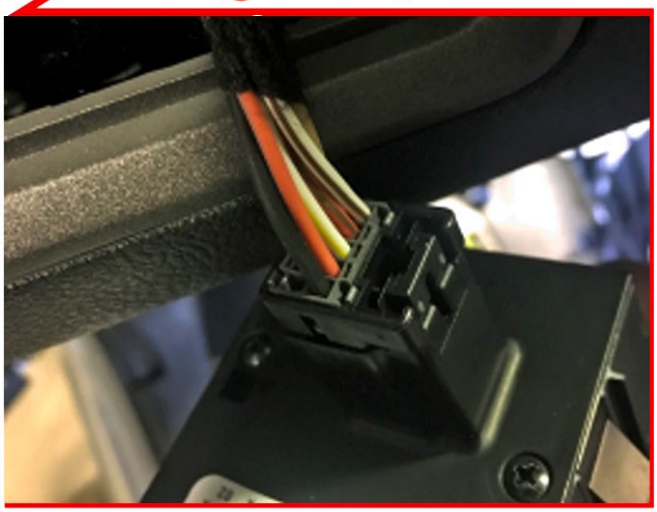
Locate the Black 10-pin connector at the back of the Headlight switch. (see photos)

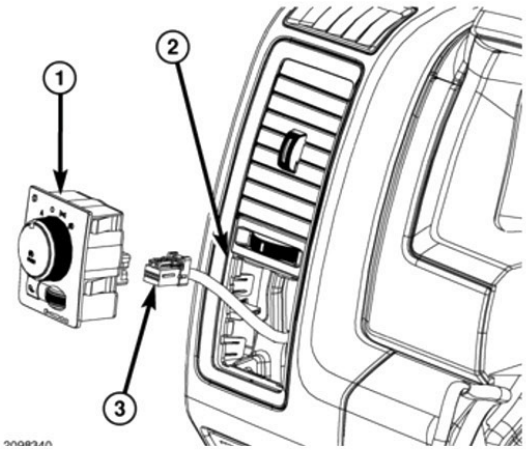
The connection can be accessed by reaching behind the panel or removing the headlight switch by popping it out of it's bezel with the aid of a panel removal tool.

Remove the factory 10-pin connector from the Headlight switch. Plug it in to the the female VS8 10-pin plug from the T-Harness. Place in the male VS7 10-pin plug from the T-Harness into factory Headlight switch.



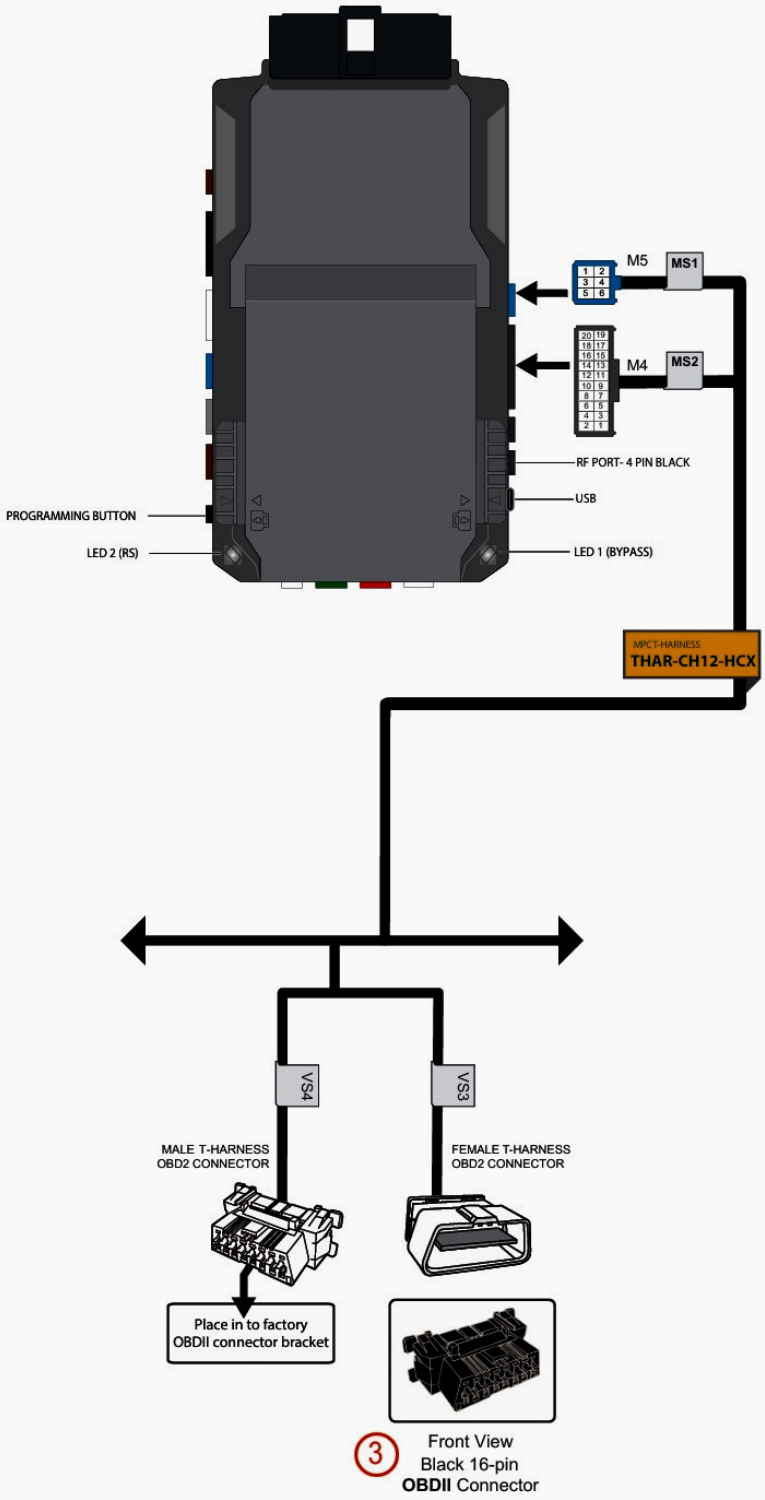
② **At Headlight Switch**





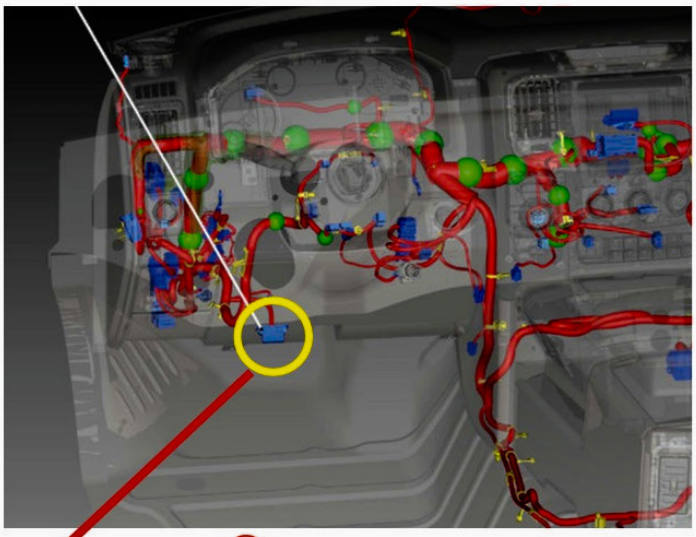
Step 2.2: OBD T-Harness Connection All Models

CONNECTING THE T-HARNESS

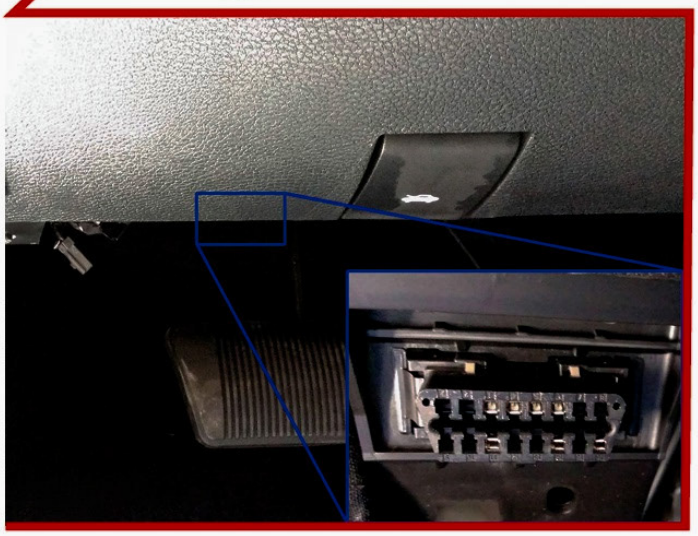


Locate the Black 16-pin OBD2 port at the lower left bottom of the Dash panel. (see photos)

Remove the factory OBD2 connector from the factory bracket. Plug it in to the the female VS3 16-pin plug from the T-Harness. Place in the male VS4 16-pin plug from the T-Harness into factory bracket.



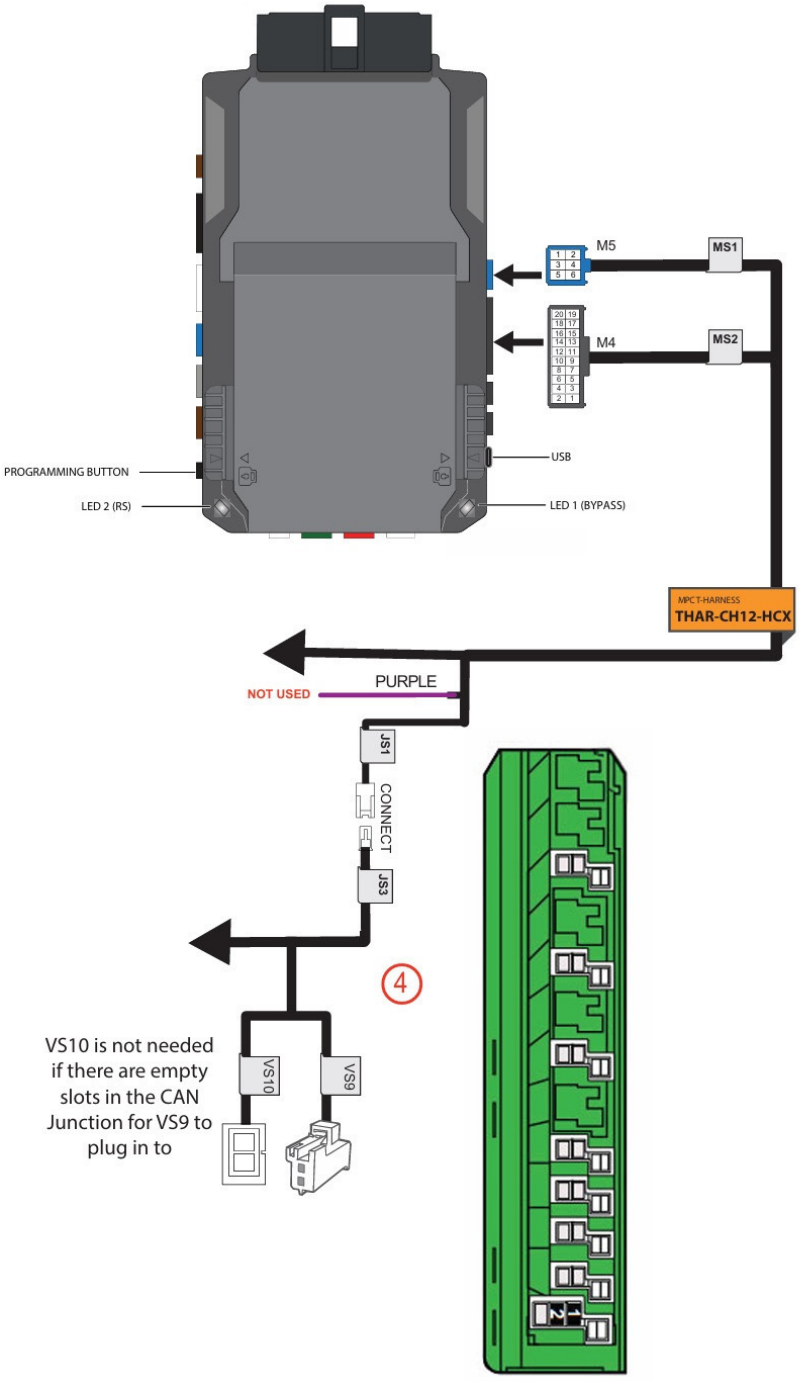
③ At OBD2 Port



Step 2.3: CH12B T-Harness Connection-2018 RAM & 2019+ RAM CLASSIC

****All the connections on page 4 are also required, 2018 + models require this also.**

CONNECTING THE T-HARNESS

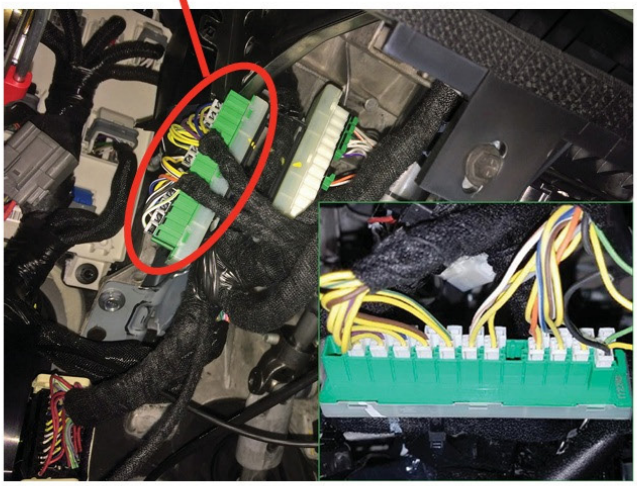


Locate the Green CAN Junction block with White Connectors to the left of the steering column.

If there are empty slots on the CAN Junction block, simply plug in the VS9 connector to any empty slot and leave VS10 disconnected

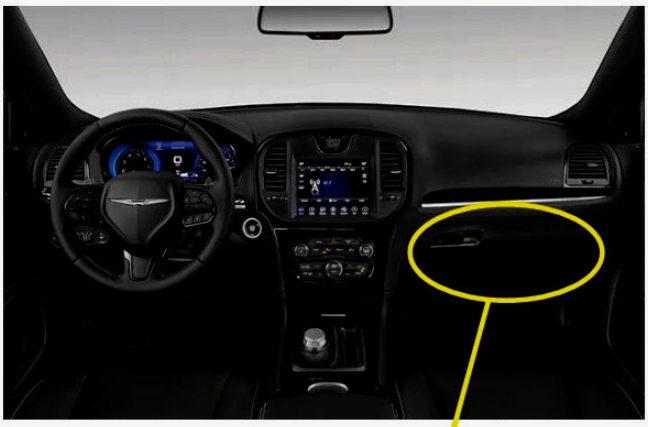
If all the slots on the CAN Junction block are taken, unplug any 2 pin connector and plug it into VS10 and then plug in VS9 to the slot it was unplugged from.





Step 2.4: CH12B T-Harness Connectino 2018 300/300C, CHALLENGER , CHARGER

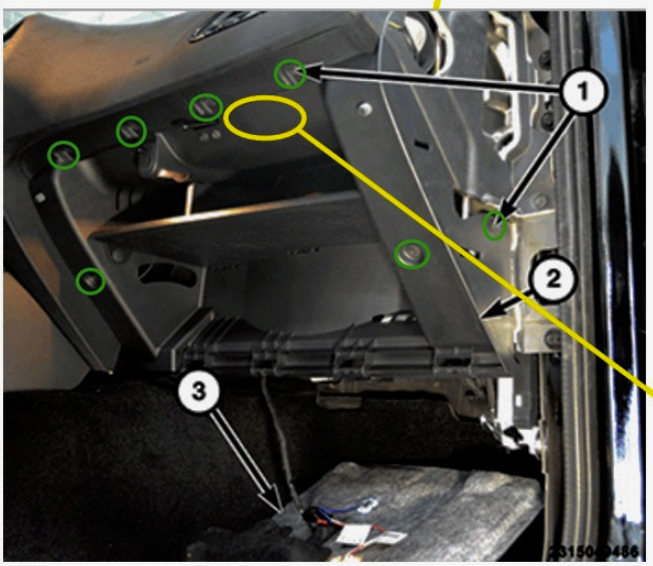
****All the connections on page 4 are also required, 2018 + models require this also.**



The Green VS9 CAN Junction with White connectors is behind the top of the glove compartment on the passenger side.

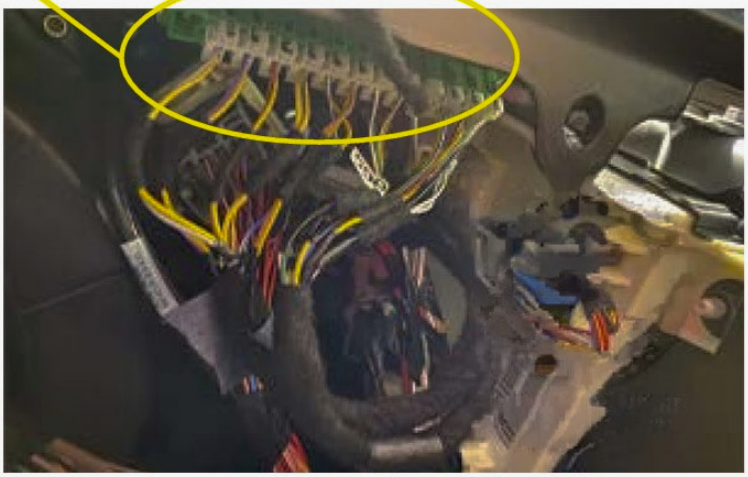
To remove the glove compartment, first remove the passenger dash endcap with the aid of a removal tool. Remove the glove box door by releasing the detent cable on the right side, then pressing in on the back corners of the box to allow it to open all the way. The box can then be pulled outward off the hinging point and placed to the side.

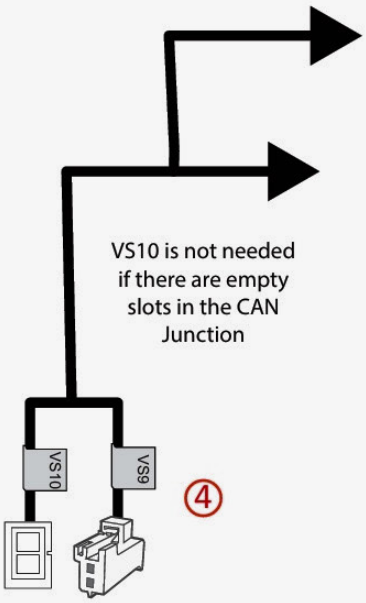
Remove 6 screws from around the outside of the glove box opening and a 7th screw on the side where the endcap panel was removed. Assist the side of the box over the locking tabs on the right side and then pull the box outward and place it aside.

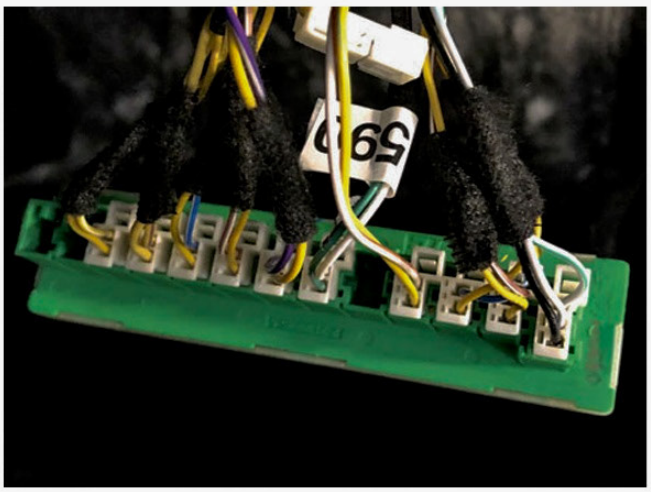


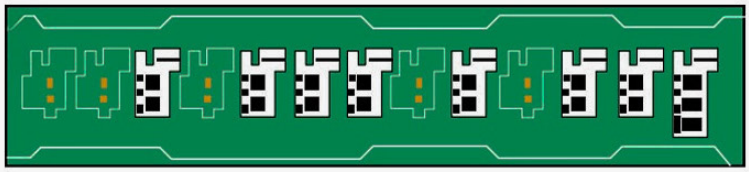
Plug the VS9 connector into any open slot available on the CAN Junction Block.

If all of the spots on the CAN Junction Block are already taken, unplug any of the 2-pin connectors and plug it into VS10 from the remote start harness, then plug VS9 into the position the original connector was removed from.





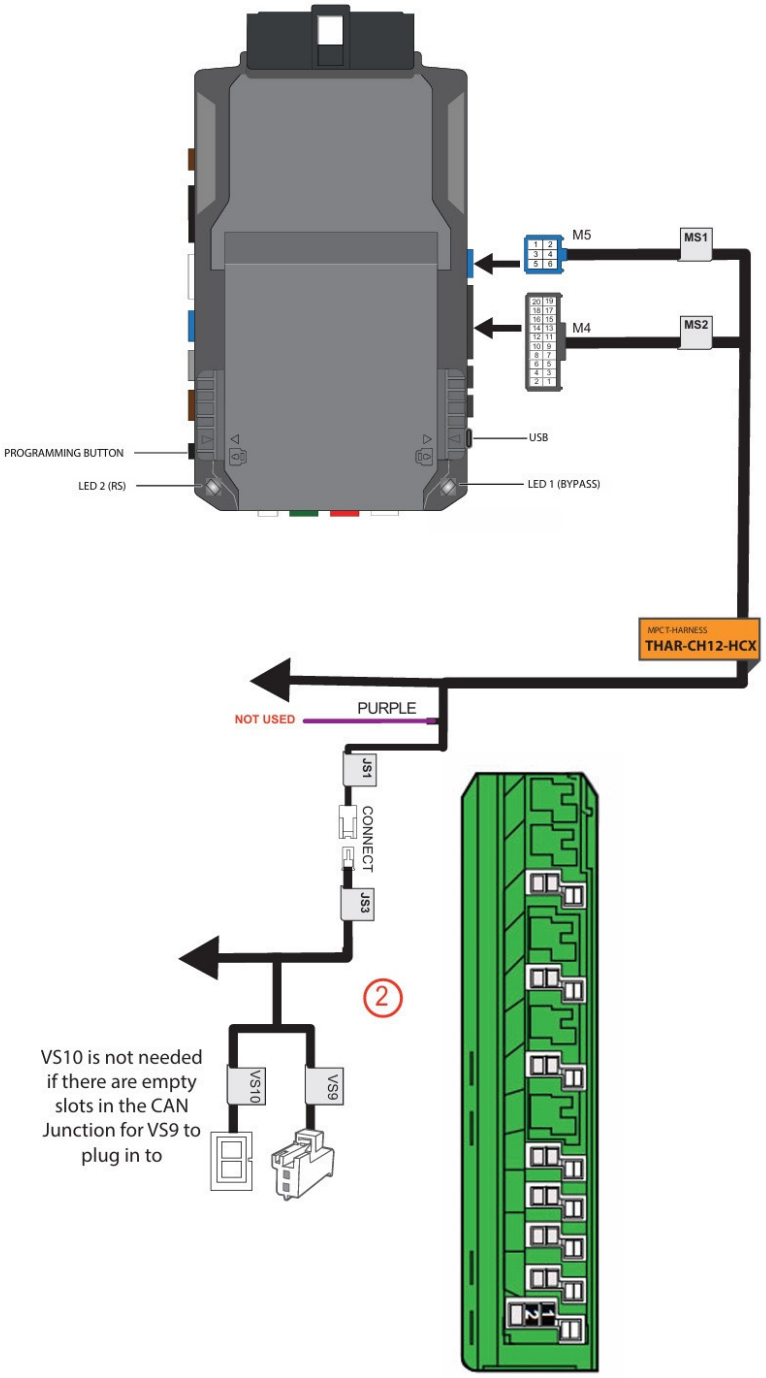




Step 2.5: CH12B T-Harness Connection 2019-2024 DODGE DURANGO

****All the connections on page 4 are also required, 2018 + models require this also.**

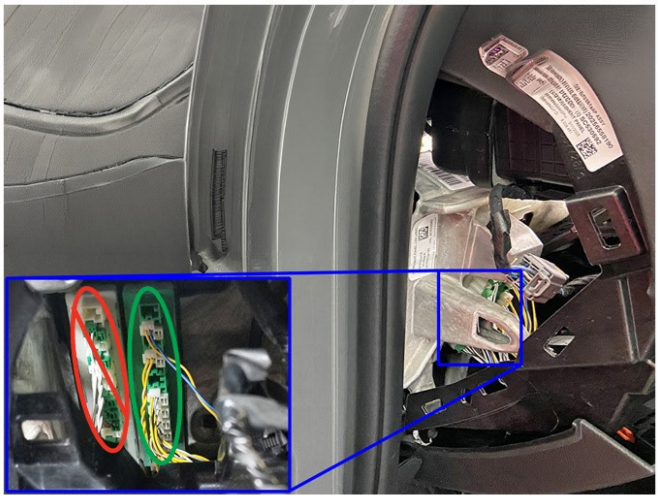
CONNECTING THE T-HARNESS



Locate the Green CAN Junction block with White Connectors to the left of the steering column.

If there are empty slots on the CAN Junction block, simply plug in the VS9 connector to any empty slot and leave VS10 disconnected

If all the slots on the CAN Junction block are taken, unplug any 2 pin connector and plug it into VS10 and then plug in VS9 to the slot it was unplugged from.



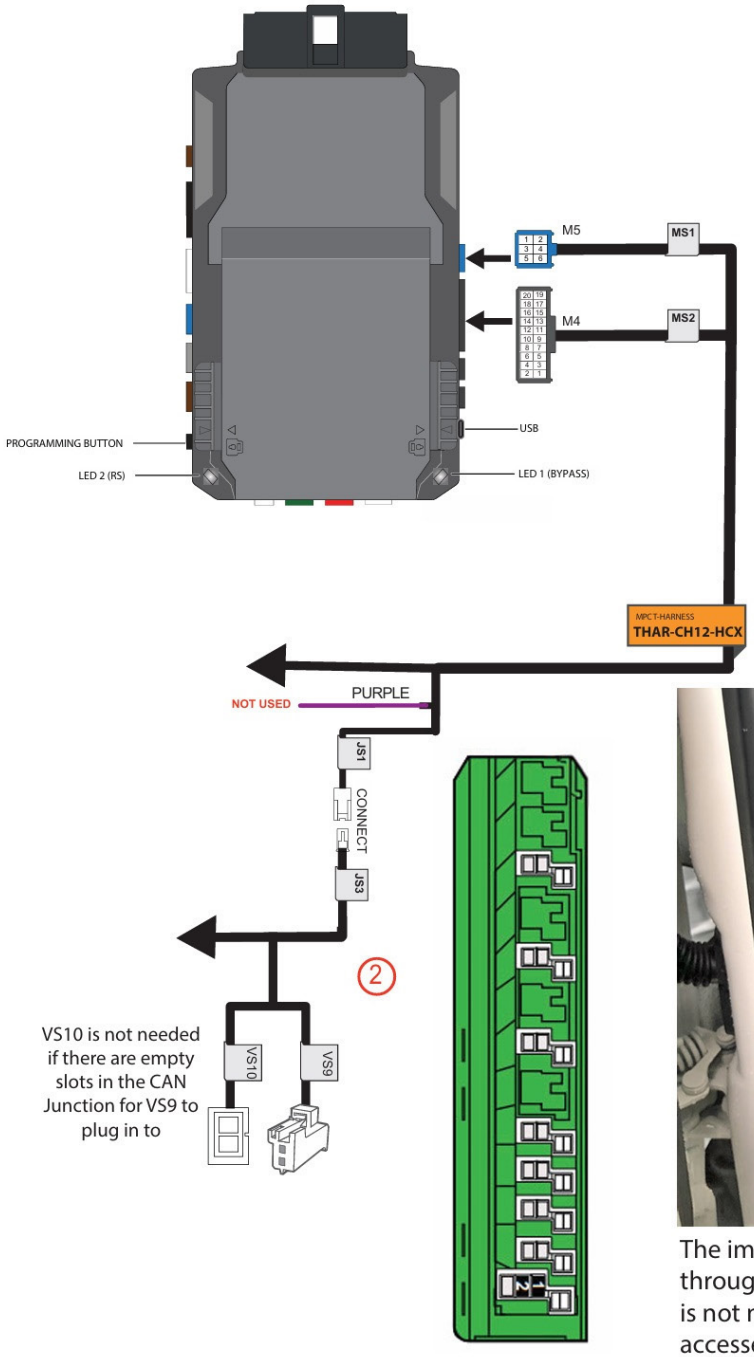
You should be able to see the CAN Junction through the headlight switch bezel opening, however you will likely have better luck reaching the connectors by removing the end cap from the dash.



Step 2.6:CH12B T-HARNESS CONNECTION 2019-2020 DODGE JOURNEY

****All the connections on page 4 are also required, 2018 + models require this also.**

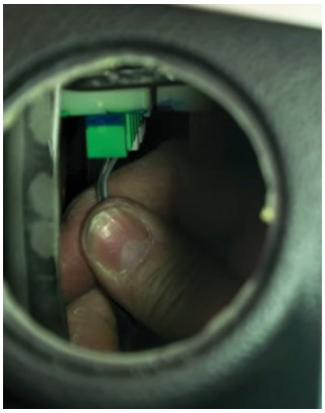
CONNECTING THE T-HARNESS

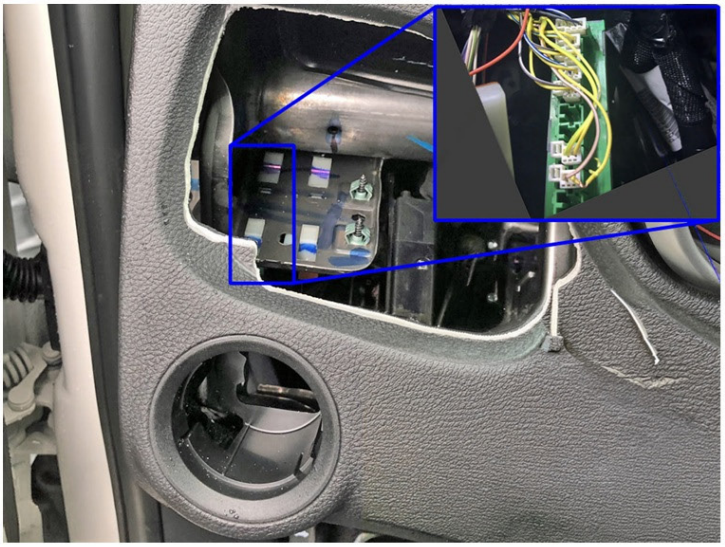


Locate the Green CAN Junction block with White Connectors to the left of the steering column.

If there are empty slots on the CAN Junction block, simply plug in the VS9 connector to any empty slot and leave VS10 disconnected

If all the slots on the CAN Junction block are taken, unplug any 2 pin connector and plug it into VS10 and then plug in VS9 to the slot it was unplugged from.



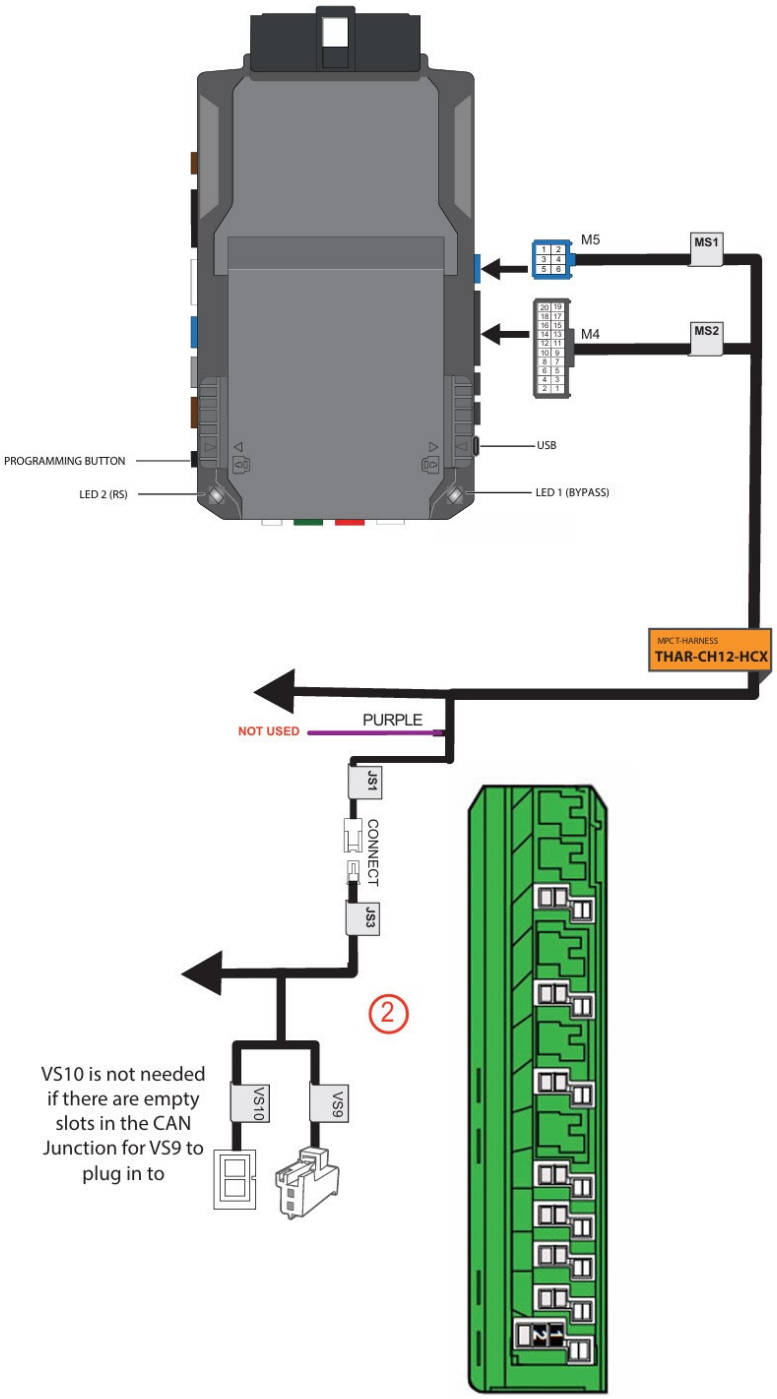


The image above shows the top side of the CAN Junction through the opening with the vent removed, removing the vent is not necessary and the connectors face downward and can be accessed from underneath.

Step 2.7: CH12B T-HARNESS CONNECTION 2018-2021 JEEP GRAND CHEROKEE

****All the connections on page 4 are also required, 2018 + models require this also.**

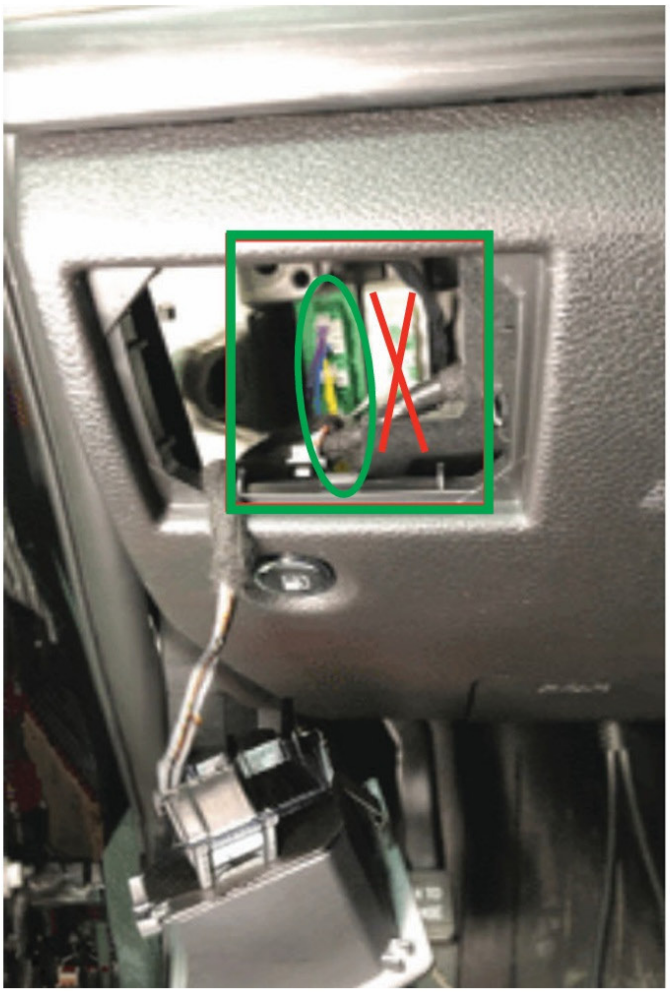
CONNECTING THE T-HARNESS



Locate the Green CAN Junction block with White Connectors behind the headlight switch.

If there are empty slots on the CAN Junction block, simply plug in the VS9 connector to any empty slot and leave VS10 disconnected

If all the slots on the CAN Junction block are taken, unplug any 2 pin connector and plug it into VS10 and then plug in VS9 to the slot it was unplugged from.



You should be able to see the CAN Junction through the headlight switch bezel opening, you may have better luck reaching the connectors by removing the end cap from the dash to get to them from the side.

Step 3: Programming RAM Key-to-Start Trucks

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. Instructions for programming the Remote Start are below. Here are two important tips to help you avoid common mistakes:

- Follow the programming instructions for the LED1 and LED2 descriptions to monitor flashes.



- Follow the KLON programming instructions included in the pages below the initial module programming.

MODULE PROGRAMMING PROCEDURE - 1 OF 1

01 Close driver door. Re-open drivers door to wake up data bus.

02 Press Unlock on OEM remote. If the vehicle is not equipped with an OEM remote, press the module programming button.

03 Wait, LED 1 will flash GREEN once [1x]. If LED 1 does not flash GREEN, repeat step 2.

LED 1

04 Turn the Tipkey to the ON position.

05 Wait, LED 1 will turn solid RED.

06 Turn the Tipkey to the OFF position and remove it from the keyport.

07 IRe-insert the Tipkey into the keyport.

08 Turn the Tipkey to the ON position.

09 Wait, LED 1 will flash rapidly GREEN.

LED 1

10 Turn the Tipkey to the OFF position and remove it from the keyport.

11 WARNING: Unplug module from vehicle. Disconnect power last when disconnecting module from vehicle.

Disconnect M4 20-pin connector last.

M4

12 Connect module to computer with USB cable and proceed with KLON extended programming.

NOTE: See download and programming in KLON steps below. Continue to Step 13 once KLON programming is completed.

13 Connect power first when reconnecting module to vehicle.

Connect M4 20-pin connector first.

14 Insert the Tipkey into the keyport and turn it to the ON position.

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

LED 1

16 Turn the Tipkey to the OFF position,

Now START the vehicle and allow the engine to idle for about 15 seconds.

17 Press and hold the brake pedal.

18 Press and release the module's programming button.

PROGRAM BUTTON

19 Release the brake pedal.

20 Wait, LED 2 will flash GREEN.

LED 2

21 Module Programming Procedure completed.

Step 3.1: Programming Push-to-Start Vehicles

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. Instructions for programming the Remote Start are below. Here are two important tips to help you avoid common mistakes:

Follow the programming instructions for the LED1 and LED2 descriptions to monitor flashes.



- KLON is needed for the Programming, follow the KLON programming instructions below.

MODULE PROGRAMMING PROCEDURE - 1 OF 1

01 
Close driver door. Re-open drivers door to wake up data bus.

02 
Press Unlock on OEM remote.

03 
Wait, LED 1 will flash GREEN once [1x].



04 
Remove the battery from the original remote, reassemble the remote without the battery inserted.

Ensure no other vehicle remotes are nearby.

05 

Use the tip of the remote with the battery removed to press the Push to Start button Twice (2x) to put the vehicle in the ON position.

06 
Wait, LED 1 will turn solid RED.

07 

Press Push to Start button once (1x) to set ignition to OFF position.

08 

Use the tip of the remote with the battery removed to press the Push to Start button Twice (2x) to put the vehicle in the ON position.

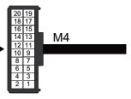
09 
Wait, if LED 1 flashes GREEN rapidly proceed to step 10. If LED 1 goes solid RED, repeat steps 7-9.

10 

Press Start/Stop button 1x to set ignition to OFF position.

11 
WARNING: Unplug module from vehicle. Disconnect power last when disconnecting module from vehicle.

Disconnect M4 20-pin connector last.



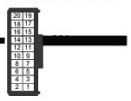
12 
Connect module to computer with USB cable and proceed with KLON extended programming.



NOTE: See download and programming in KLON steps below. Continue to Step 13 once KLON programming is completed.

13 
Connect power first when reconnecting module to vehicle.

Connect M4 20-pin connector first.



14 

Close and open the driver door again to ensure the data bus is still awake.

Use the tip of the remote with the battery removed to press the Push to Start button Twice (2x) to put the vehicle in the ON position.

15 
Wait, LED 1 will turn solid GREEN for 2 seconds.

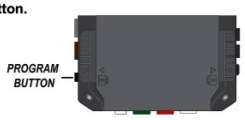
You may now turn the ignition OFF and reinstall the battery into the vehicles remote.

16 

START vehicle for 15 seconds.

17 
Press and hold the brake pedal.

18 
Press and release the module's programming button.



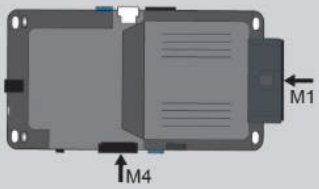
19 
Release the brake pedal.

20 
Wait, LED 2 will flash GREEN.



21 
Module Programming Procedure completed.





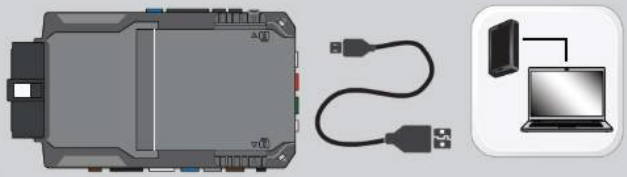
WARNING: Disconnect power last when disconnecting module from vehicle.

Disconnect all connectors first, then the M4 20-pin. Or the M1 8-Pin (Main-Harness).

Goto www.weblinkupdater.com/weblinkdesktop/en

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

Use this password: **MPCflash2025!**



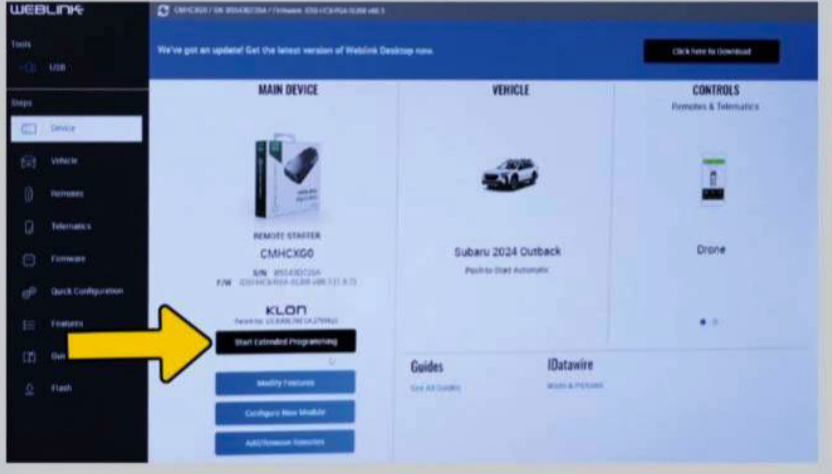
KLŌN

Download WEBLINK updater Program
You will need to download this program to do the KLON. It requires a Windows pc or MAC with USB





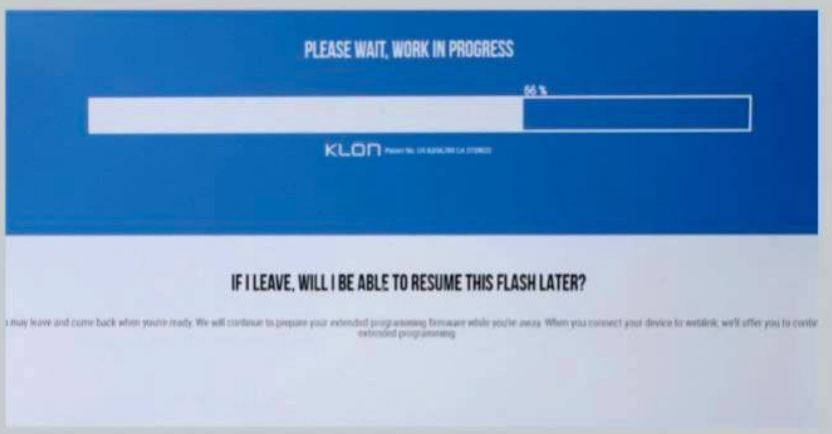
Install and Login in to WEBLINK Updater. Select Weblink RS Flash remote Starter.



Once the device loads, select Start Extended Programming.



Select Continue Extended Programming.



Wait while KLON program processes.

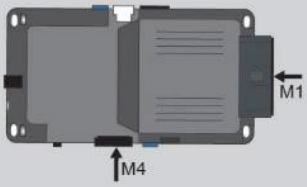


Once Flash is Completed Sucessfully, select OK.



Install back in to Vehicle





When KLON programming is complete take the module back to vehicle. Connect the M4 20-pin first. Or the M1 8-Pin (Main-Harness). Then the rest of the connectors.
After all connections have been made, continue with the programming steps as directed.

KLON



Once all programming is completed,
Test the remote starter. Remote start the vehicle.

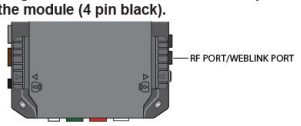
The KLON programmed is now complete.

Programming for OPTIONAL RF Remote Upgrade Kits RFKIT1-RFKIT2W-RFKIT4

>>



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



01



WARNING: Complete the module programming procedure and tach 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 START 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.

Step 4: Finishing up & Vehicle Take Over Procedure!

After confirming that everything works properly, cap off or tape the ends of any wires you're not using to avoid grounding or other contacts.

- Now gather up all the wiring and neatly bundle it together using zip ties or electrical tape to prevent the wires from interfering with any of the moving parts under the dash.
- Test the system often when you are putting your vehicle back together.
- Find a secure place to put the remote start module and use zip ties to secure it. Be careful not to zip tie near your connections as it may create a bad connection.
- Replace any interior vehicle panels that were removed to gain access to the needed wires, in reverse order that they were removed.
- Test the system as you reinstall the panels in your vehicle to make sure you do not pull something loose or pinch a wire. Be careful not to run a screw through a wire or pinch a wire while reinstalling panels.

* If your test was unsuccessful, go back and re-check your wiring and programming. If you used T-Taps, make sure they are all attached correctly. Poorly made T-Tap connections are the #1 cause for tech support calls. Also, remember that T-Taps should never be used on data connections.

VEHICLE TAKE OVER PROCEDURE

This system will run for 15 minutes then turn off. If you approach the vehicle while it is still running, unlock the doors, enter the vehicle and close the door, within 45 seconds, press the brake pedal and hold it down for 3 seconds, you will hear a click from the remote starter turning off and you can drive away. Older model Toyotas turn off when you open the door, these models will require that you restart normally when you enter.

01



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

02



Press the Lock button 3 times on the vehicles OEM factory remote.

03



The vehicle engine will start.

04



Press unlock on the OEM remote or request switch.

Enter the vehicle with the OEM keyfob and close the door.

05



Time rescriction. Complete Step 6 within 45 seconds of unlocking the vehicle.

06



Press the BRAKE pedal for about 3 seconds and release.

07



The vehicle can now be put in to gear and driven..

>>



failure to follow procedure will result in no take over and vehicle engine will shutdown.

If you have any installation questions or problems,
you can create a support ticket for help at:

install.kleinn.com/support

Kleinn Automotive Accessories

520-579-1531

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DIESEL DELAY SETTING FOR DIESEL ONLY P1

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).

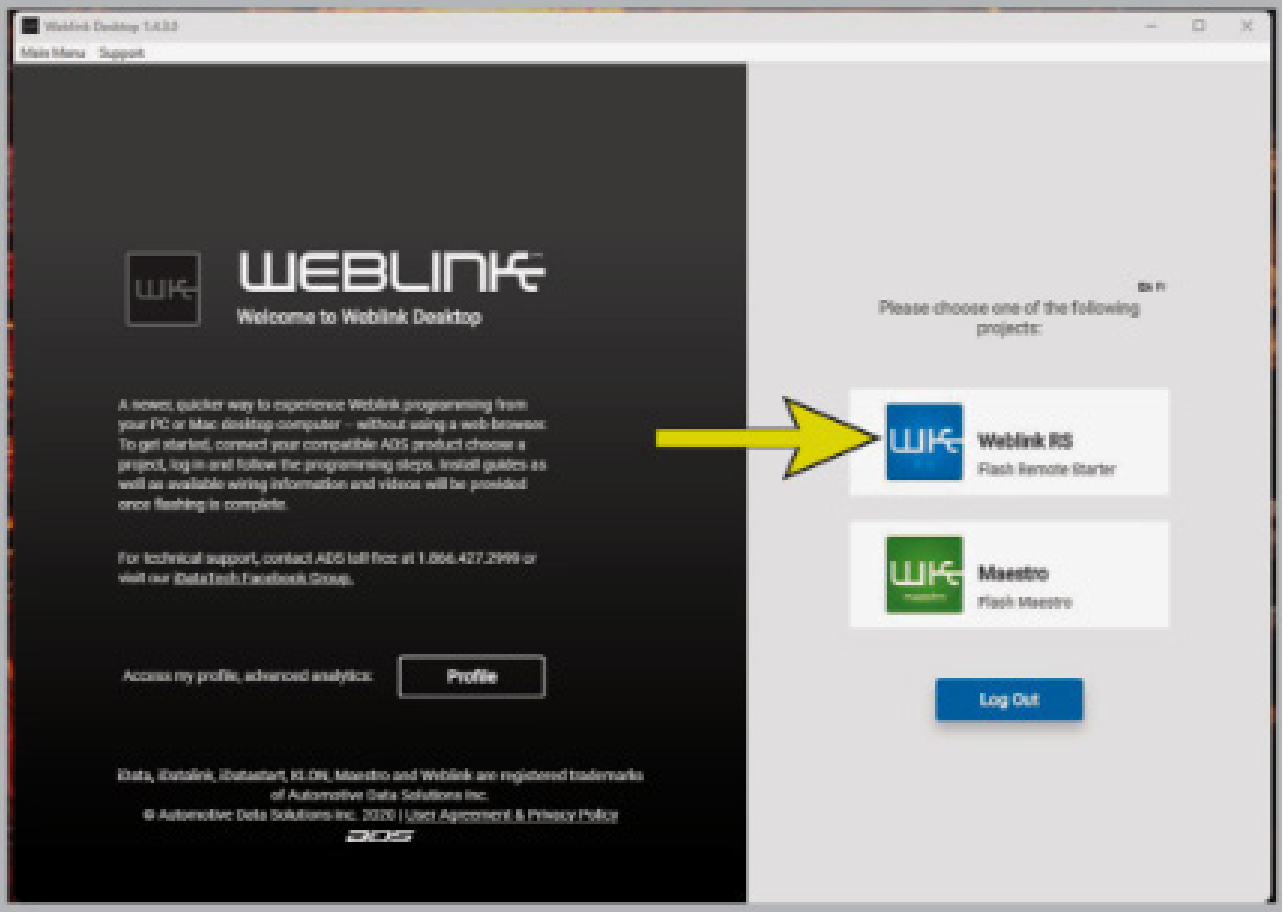
Goto www.weblinkupdater.com/weblinkdesktop/en

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

Use this password: **MPCflash2025!**

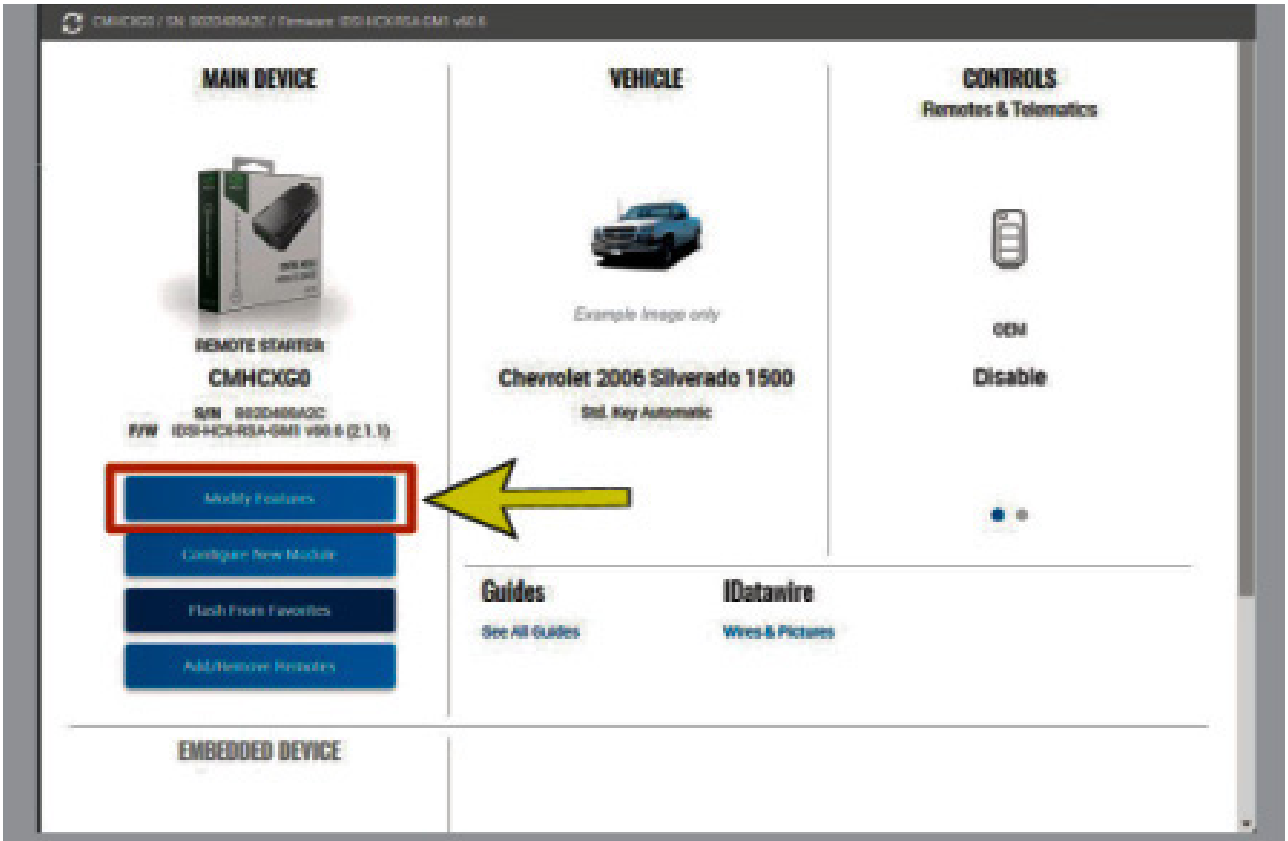


Download WEBLINK updater Program
You will need to download this program to do the WebLink destop. It requires a Windows pc or MAC with USB and a USB-C to USB cable.

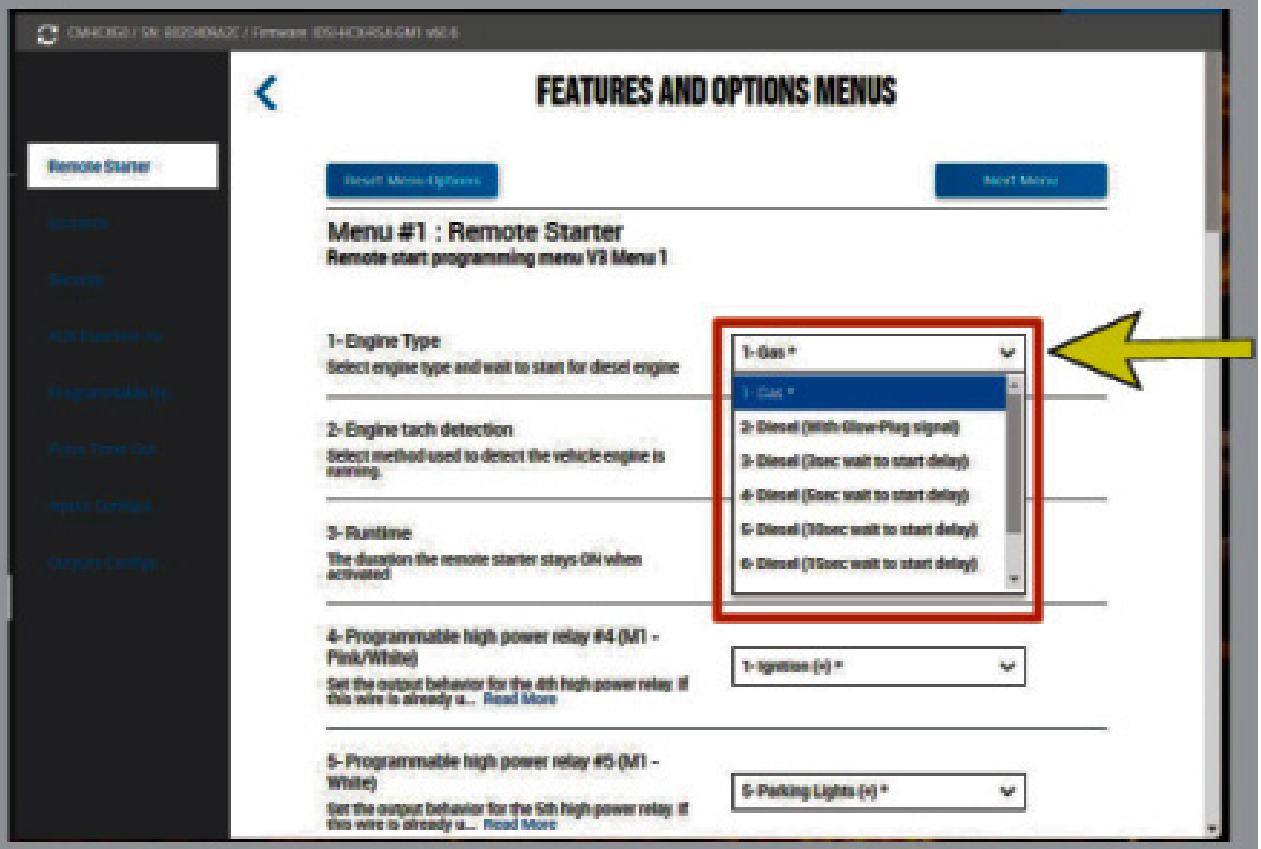


Install and Login in to WEBLINK Updater. Select Weblink RS Flash remote Starter.

DIESEL DELAY SETTING FOR DIESEL ONLY P2



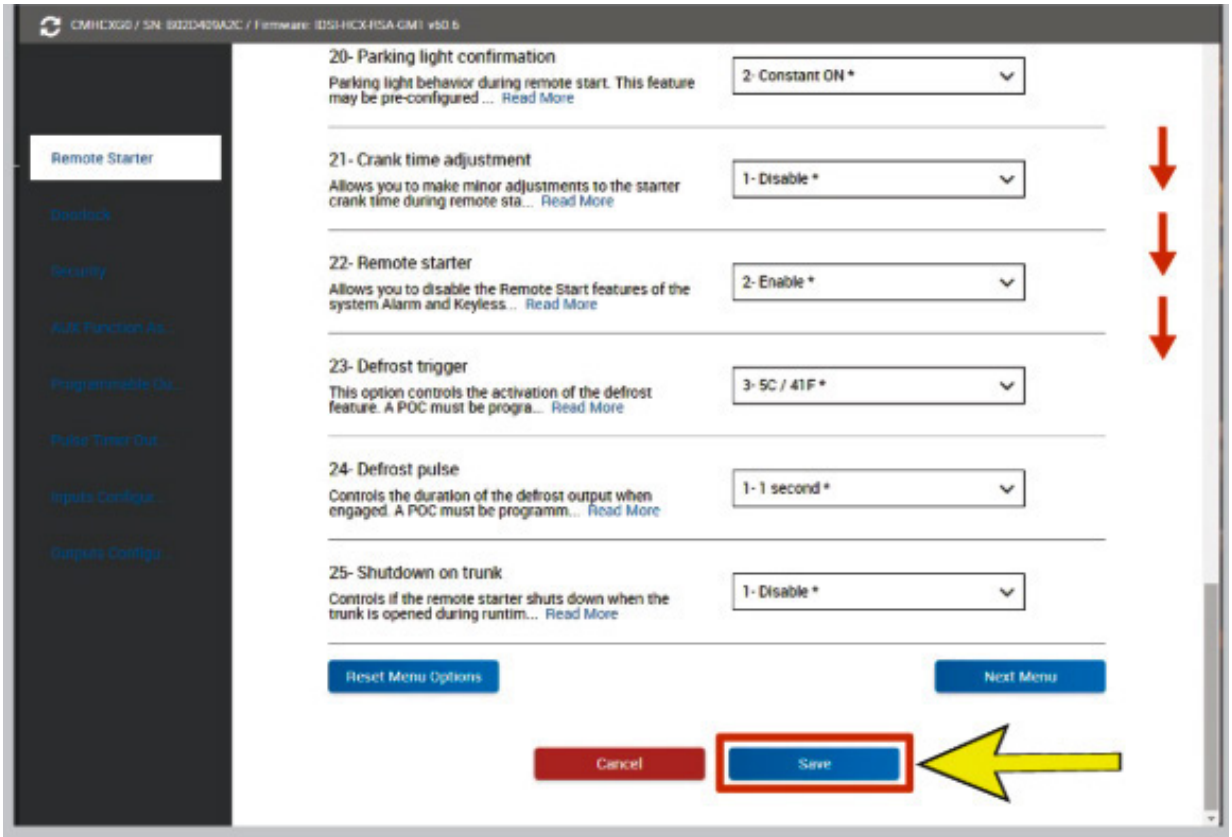
Once the device loads, select Modify Features.



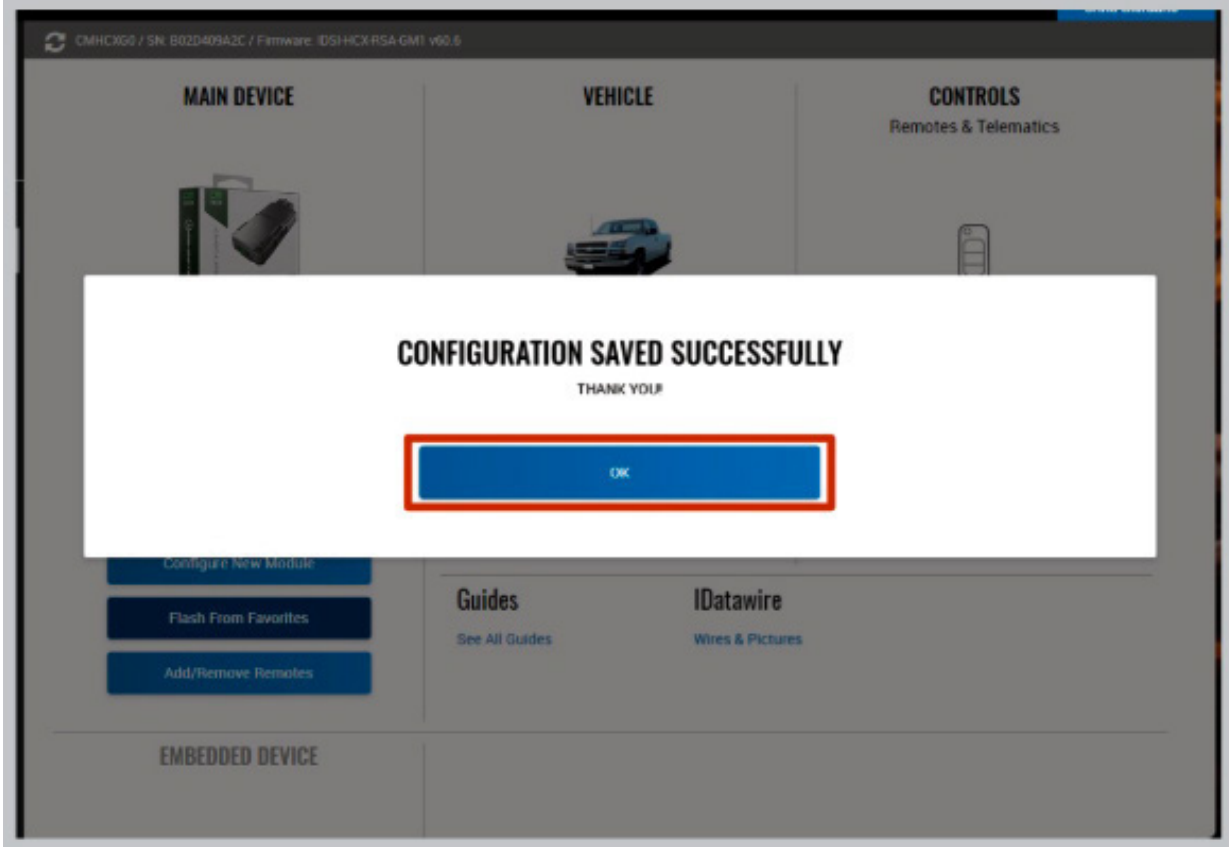
Select 1-Enigine Type drop down menu. Select your desired Diesel delay option.

Option #2 Diesel (with Glow-Plug Signal) reads the signal over data and will crank as soon as the Wait-to-Start light shuts off. Options #3 to #6 are preset Wait-to-Start times.

DIESEL DELAY SETTING FOR DIESEL ONLY P3



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



Once Configuration is Saved Sucessfully, select OK.

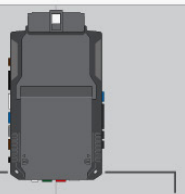


When programming is complete take the module back to vehicle. Connect the M1 8-Pin (Main-Harness).
Then the rest of the connectors.
After all connections have been made, continue with testing the remote start.

Troubleshooting Charts

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. II After a remote starter failure, the parking lights will flash 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.

REMOTE STARTER SHUTDOWN ERROR CODES: NOTES	PARKING LIGHT FLASHES	DIAGNOSTIC
I WARNING: The following applies only when the parking lights are connected and supported by the system. II If the engine shuts down after a remote starter sequence use the query command from a compatible aftermarket remote to display the shutdown error code. The parking lights will flash four [4x] times followed by the error code. See table.	4 + 1	Engine tach signal was lost.
	4 + 2	Emergency brake signal was lost.
	4 + 3	Foot brake ON detected.
	4 + 4	Hood open detected.
	4 + 5	Tach over rev detected.
	4 + 6	Glow plug timeout error.
	4 + 7	Vehicle movement detected (VSS).
	4 + 8	Check engine light ON.
	4 + 9	Low fuel level.
	4 + 10	Open door detected.
	4 + 11	CAN communication failure during RS sequence.
	4 + 12	RS not synchronized. Start vehicle with OEM key for 15 sec before trying a new RS sequence.
	4 + 13	Bypass problem.
	4 + 14	Idle mode or takeover is not available on this vehicle.
	4 + 15	Overheat protection.

MODULE STATUS DURING:	 LED 2*	LED 1**	LED STATUS	DIAGNOSTIC
REMOTE START SEQUENCE	●		Flashing rapid RED	Remote start shutdown sequence.
	●		Flashing slow RED	Remote start shutdown error code. Contact technical support.
	●		Solid RED	Remote start crank delay.
	●		Flashing rapid GREEN	Remote start cycle in progress. Working correctly.
	●		1 GREEN flash	Remote start initiated successfully.
	●		3 GREEN flashes	Idle mode cycle in progress.
	●		4 GREEN flashes	Turbo mode cycle in progress.
		●	Flashing GREEN	Remote start cycle in progress. Displays vehicle platform during runtime.
		●	Rapid GREEN flashing	Secure takeover initiated. Waiting to complete takeover after brake press.
TRANSMITTER PROGRAMMING	●		Solid RED	Remote programming in progress, waiting for remote pairing.
	●		1 GREEN flash	Remote programmed.
	●		4 RED flashes	Shutdown remote starter before attempting remote programming.
	●		5 RED flashes	Engine must be off before attempting remote programming.
	●		6 RED flashes	System must be unlocked/disarmed before attempting remote programming.
	●		7 RED flashes	Module must be learned to the vehicle before attempting remote programming.

* LED 2 (RS) displays generic diagnostic codes specific to the remote start module. Orange LED flashes may appear red.
** LED 1 (Bypass) displays diagnostic codes specific to the firmware loaded on the module.
Visit the programming diagnostics page for more information.