Installation Guide

2009-2012 Ram Trucks & Select
2008-2024 Dodge/Chrysler/Jeep Cars & SUVs
Key & Push-to-Start

Kleinn SKU # - RSRAM4

Years	Jeep (Key & Push-to-Start)													
2008-2011	Commander (KTS)	08	09	10	11									
2008-2013	Grand Cherokee (PTS & KTS)	08	09	10	11	12	13							
Years	**RAM (Standard Key)**													
2009-2012	1500 Trucks		09	10	11	12								
2009-2012	2500 Trucks		09	10	11	12								
2009-2012	3500 Trucks		09	10	11	12								
2009-2012	4500 Trucks		09	10	11	12								
2009-2012	5500 Trucks		09	10	11	12								

Years	Chrysler (Key & Push-to-Start)													
2008-2010	300 (KTS)	08	09	10										
2008-2016	Town & Country (PTS)	08	09	10	11	12	13	14	15	16				
Years	**Dodge (Key & Push-to-Start)**													
2008-2014	Challenger (PTS & KTS)	08	09	10	11	12	13	14						
2008-2010	Charger (KTS)	08	09	10										
2011-2013	Durango PTS & KTS)				11	12	13							
2008-2010	Journey (KTS)	08	09	10										
2008-2020	Grand Caravan (KTS & PTS)	08	09	10	11	12	13	14	15	16	17	18	19	20
2008	Magnum (KTS)	08	09	10										

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

Introduction:

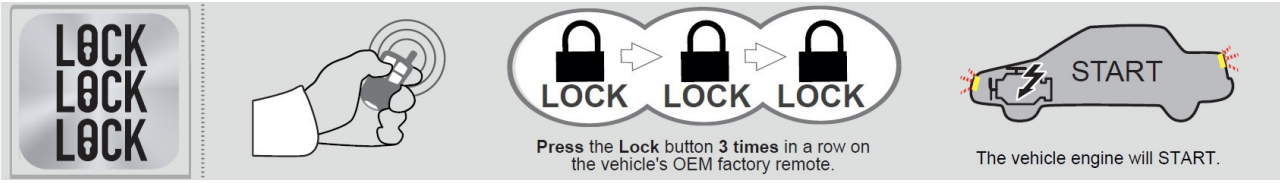
- This is a pre-wired plug and play kit. All the required connections have been made within the t-harness.
- We have loaded the correct firmware into the remote start module. You will need to pair the module to your vehicle when the connections are complete, begin with Step 3 and follow the KLON programming.
- This remote start will monitor the vehicle lock circuit and use the pulses generated by pressing lock 3 times on your OEM remote or by holding the button on the remote for 3 seconds to start the vehicle.

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 and hold the button for 3 seconds to start the engine. You must press the remote button twice to unlock the doors prior to entering the running vehicle even if the Jeep lacks OEM installed keyless entry, press the remote button twice, enter the running vehicle with your OEM key and close the door, press and release the brake pedal, put the vehicle in gear and drive away.



Check out our Smartphone GPS/Starter Control upgrade kits

Click Here for Upgrade Options

- **Firmware pre-loaded:** As part of the service Kleinn provides, we have pre-flashed the compatible firmware version and options into your **HCX** module for you so you are ready to begin the installation in the vehicle. You will need to program the module to the vehicle and run KLON when the installation



Parts Required:

- Idatalink HCX Module Pre-Flashed (RSA CH4) Firmware
- T-Harness CH4

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.

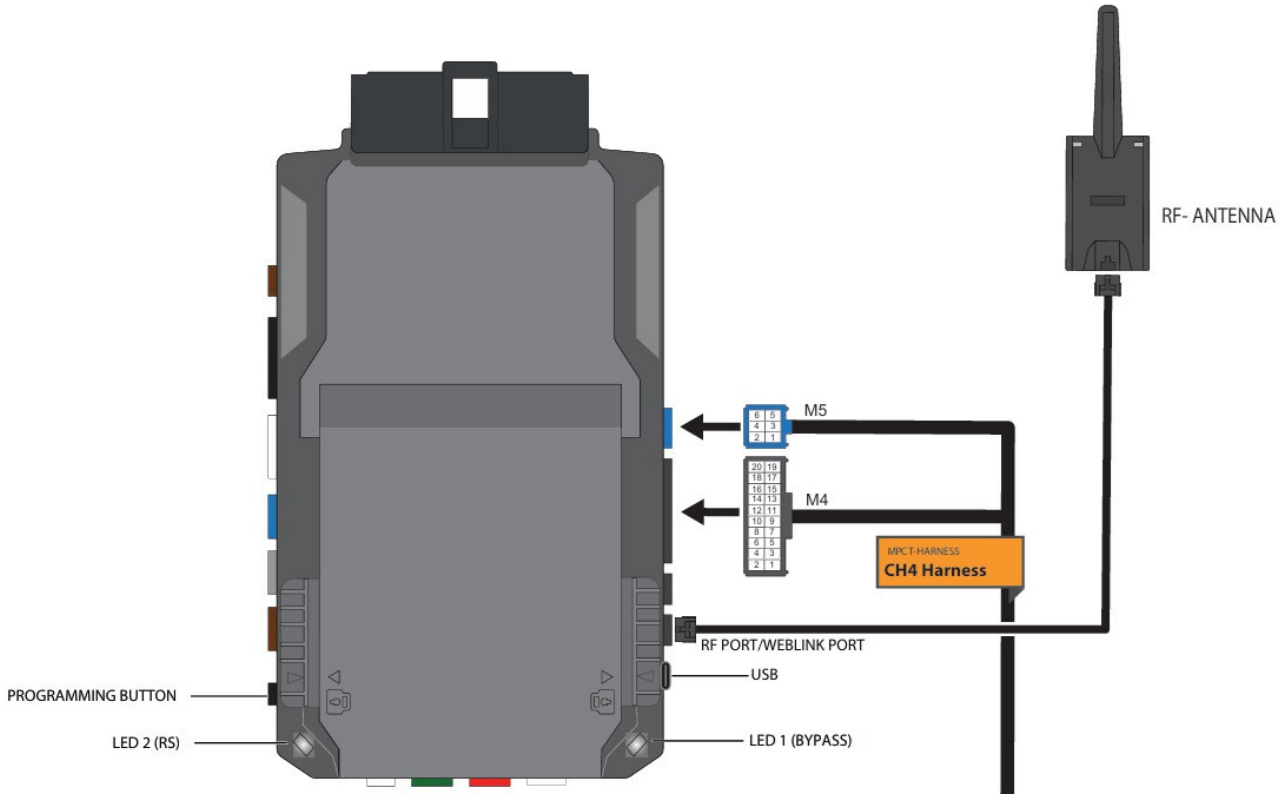
Strip - Poke - Wrap and Tape method is the best wire connection that you can make. You MUST use this method for any data wire connection(s). T-Taps should never be used on data connections. If required for your installation, data connections may be labeled: CAN HIGH, CAN LOW, IMMO, IMI, IMO, RX, TX, or Passlock. Do not solder unless you know how to do it really well.

Click here for directions on how to Strip/Poke/Wrap/Tape the wires

The recommended Strip - Poke - Wrap and Tape method shown above is the most reliable for remote start installations. Your kit may include T-Tap connectors that can make your connections easier, and still perform reliably when used correctly. T-taps can be used on any connections except for the Data wire connection(s).

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

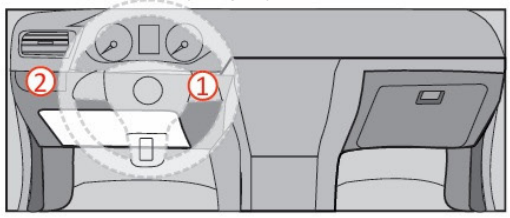
STEP 2: Wiring Connections Overview

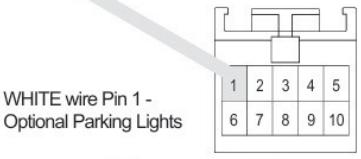


WHITE/BROWN - Optional Parking Lights
NOT USED
NOT USED

Wire is white on Ram Trucks, other modes with this style connector may have white with a brown or light-green stripe, all these style connectors will be the correct parking light wire in pin position 1 as shown below.

This guide covers various models, exact locations may vary slightly from model to model.





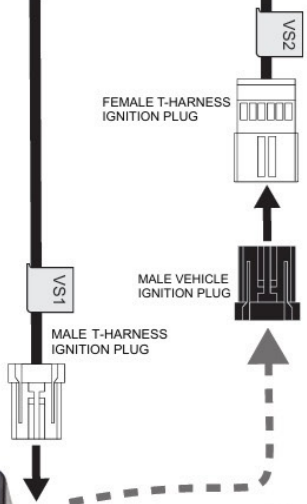


-**OR** -





② Headlight Switch - 10 pin connector





OR



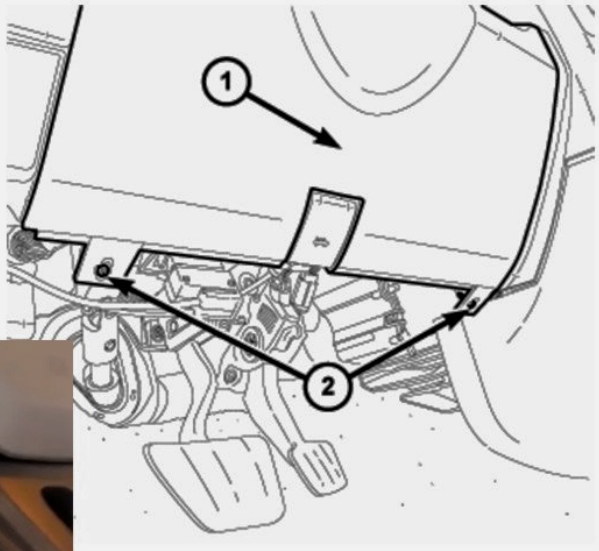
① Wireless Ignition Node - 12 pin connector

PARKING LIGHT WIRE CONNECTION IMPORTANT NOTE:

- This is an optional connection that triggers the parking lights when the remote start is running. All vehicles will either have the connector shown above on the left or the image to the right of it. If your plug looks like the 10 pin the image above on the left, the wire will be in pin position 1.
- If your vehicle has the image shown above to the right, it is a 6-Pin connector, white / light green wire in pin position 3.

Ram Truck T-Harness Connection Overview

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.



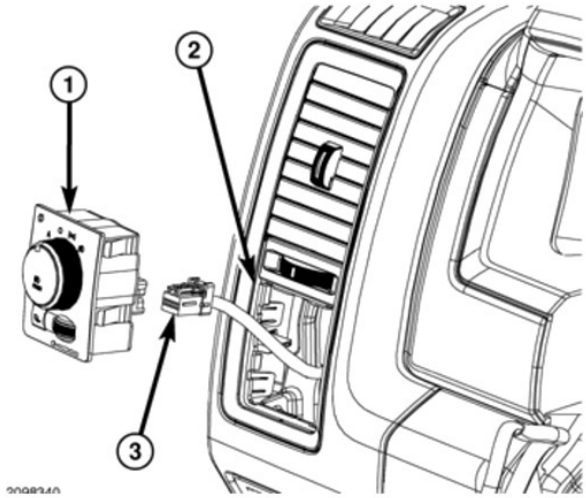


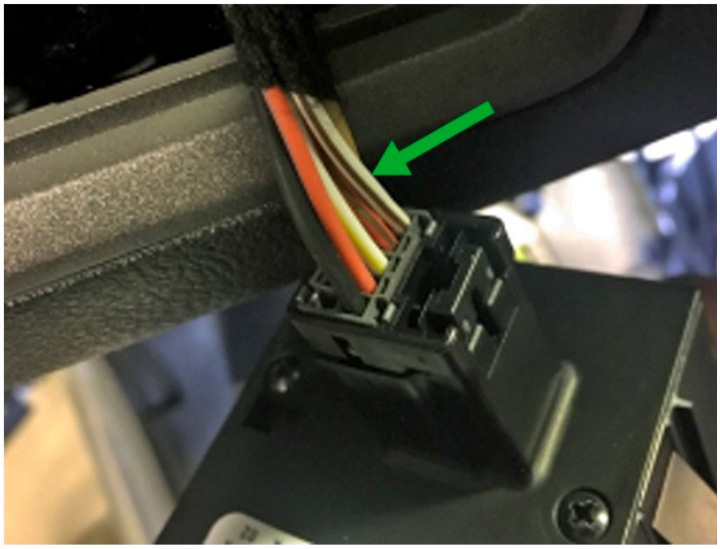
Reach behind the Ignition Node and unplug the 12 pin connector.

Plug the OEM harness into the VS2 connector on the harness. Plug the VS1 connector back into the Ignition Node.

Optional Parking Light Connection Overview

If you would like the vehicles parking lights to come on with remote start, this connection must be made. It is an optional connection and the remote start will operate fine without making the connection if preferred.



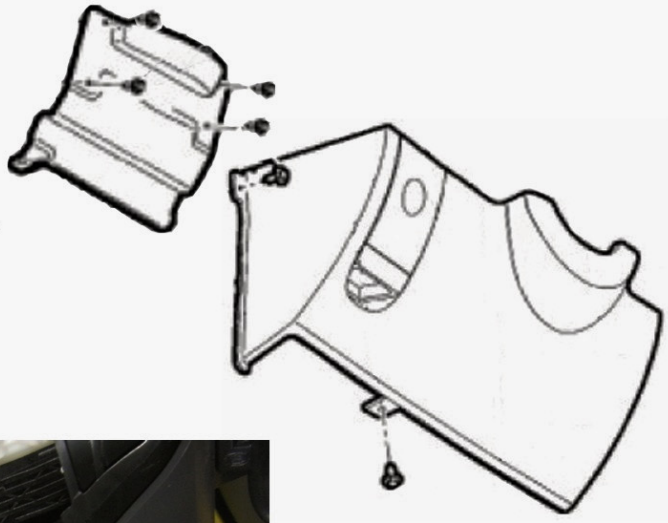


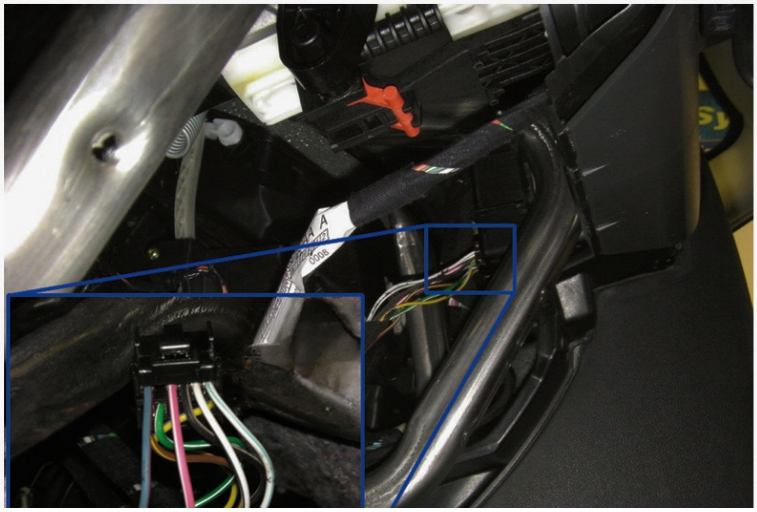
To remove the headlight switch from the dash, use a panel removal tool to pop the assembly free.

Connect the White/Brown wire from the remote start harness to the White (possibly White/Brown) wire in Pin 1 of the Headlight Switch connector.

Begin by removing the dash panel below the steering column and the plate behind it. Remove one screw along the left side and one on the bottom edge of the panel, then pop the clips along the top free with the aid of a panel removal tool and remove the panel.

Remove four (4x) bolts from the plate behind the panel and remove the plate.



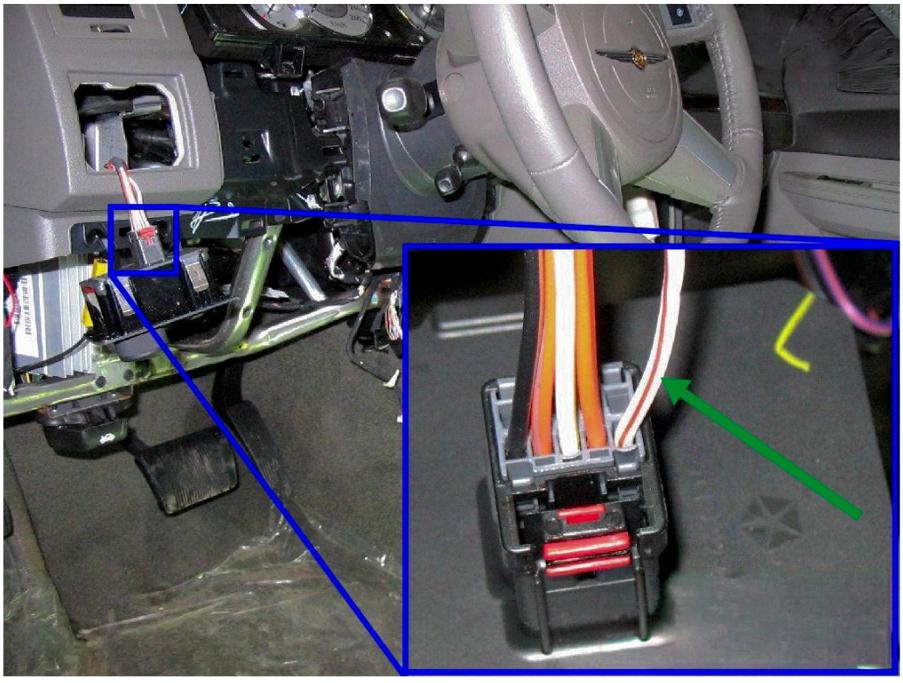


With the panel removed there should be plenty of room to reach behind the Ignition Node and unplug the connector.

Plug the OEM harness into the VS2 connector on the harness. Plug the VS1 connector back into the Ignition Node.

Optional Parking Light Connection

If you would like the vehicles parking lights to come on with remote start, this connection must be made. It is an optional connection and the remote start will operate fine without making the connection if preferred.



To remove the switch from the dash, reach behind the switch and push up on the lower clips then wiggle the switch downward and out of the dash. To release the connector, slide the red tab backwards before depressing the locking tab.

Connect the White/Brown wire from the remote start harness to the White/Brown wire in Pin 1 of the Headlight Switch connector.

Dodge Durango T-Harness Connection Overview

The easiest access to the Ignition Connector is by removing the Instrument Cluster to access the connector from Above.

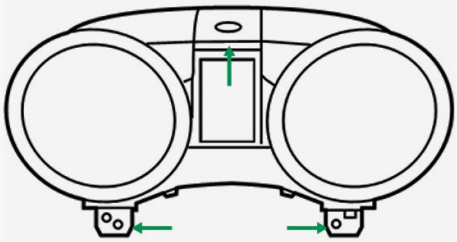
Lower and extend the steering column and then use a panel removal tool to release the Steering Column Trim Ring from the dash.

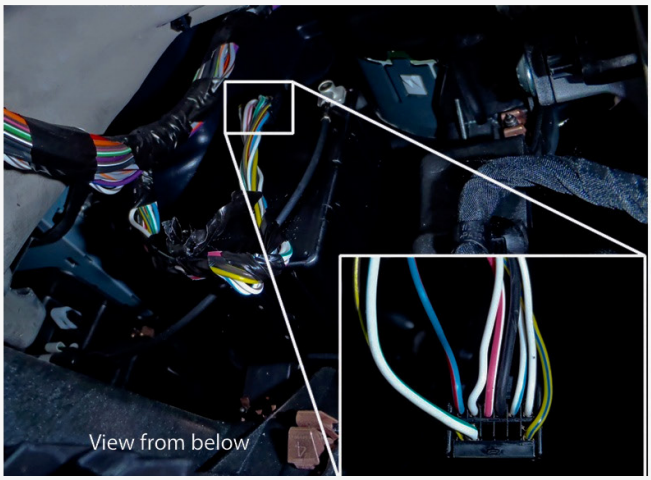
Remove two (2x) fasteners from the bottom of the cluster bezel revealed by removing the column trim ring. Remove one fastener from the top center of the Cluster Bezel.

Use a panel removal tool to help clear the top of the cluster bezel from the dash hood if needed and rotate the cluster top first out of the dash and then lift up to remove it.

Gently position the cluster aside and you will have access through the opening to reach behind the Ignition Node and disconnect the 12 pin connector.



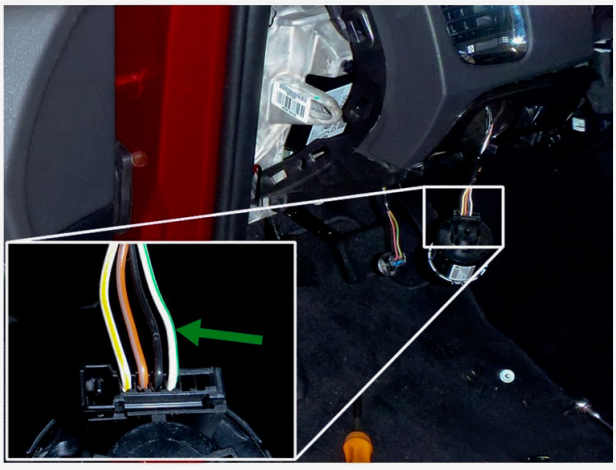


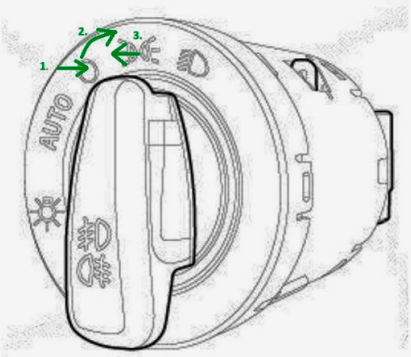


Plug the OEM harness into the VS2 connector on the harness. Plug the VS1 connector back into the Ignition Node.

Optional Parking Light Connection

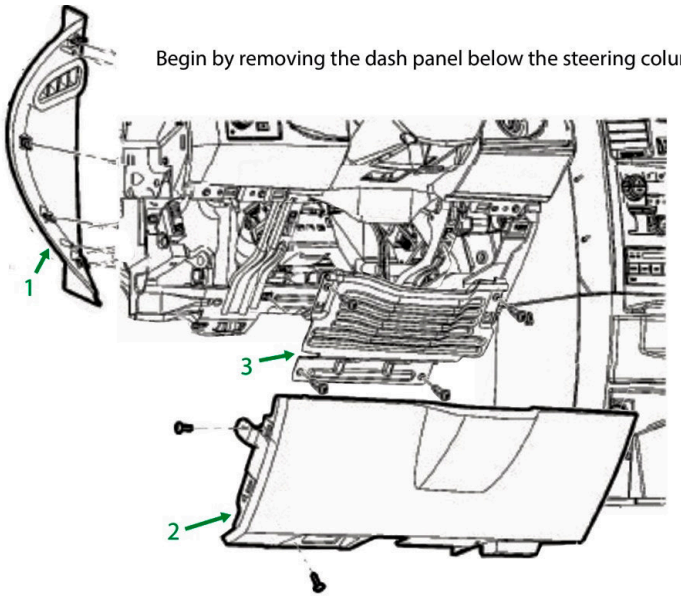
If you would like the vehicles parking lights to come on with remote start, this connection must be made. It is an optional connection and the remote start will operate fine without making the connection if preferred.





To remove the headlight switch from the dash, turn the switch to the Off (o) position, then push inward on the rotary knob and while pushing in turn to the Right toward the Parking Light position to release the retainer tabs, then pull out toward you and the assembly will release from the dash.

Connect the White/Brown wire from the remote start harness to the White/Green wire in Pin 3 of the Headlight Switch connector.



Begin by removing the dash panel below the steering column and the plate behind it.

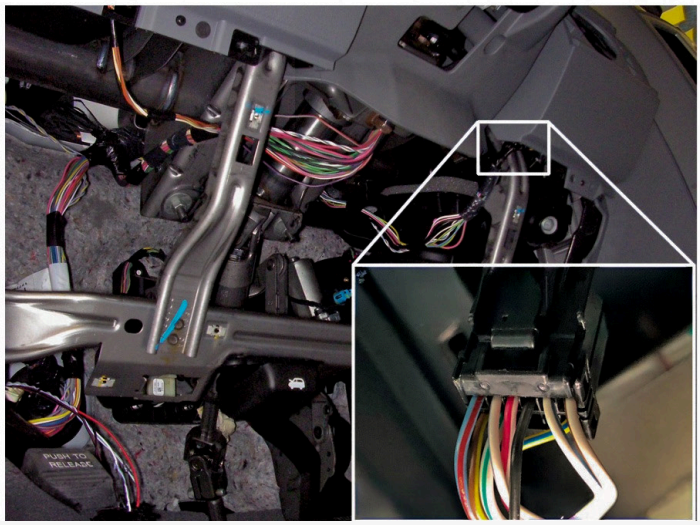
Remove the End Cap Panel from the dash by popping it free with the aid of a panel removal tool.

Remove one screw along the left side and one on the bottom edge of the Knee Panel, then pop the clips along the top free with the aid of a panel removal tool and remove the panel.

Remove four (4x) bolts from the plate behind the panel and remove the plate.

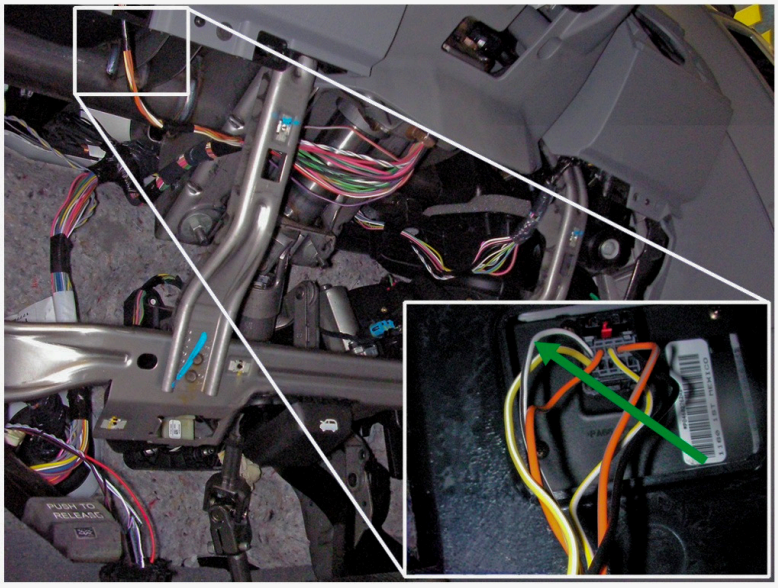
The Ignition Connector exits the bottom of the Ignition Node. Reach beneath the Ignition Node and unplug the connector. Heads up, this can be a tight squeeze getting to the connector.

Plug the OEM harness into the VS2 connector on the harness. Plug the VS1 connector back into the Ignition Node.



Optional Parking Light Connection

If you would like the vehicles parking lights to come on with remote start, this connection must be made. It is an optional connection and the remote start will operate fine without making the connection if preferred.

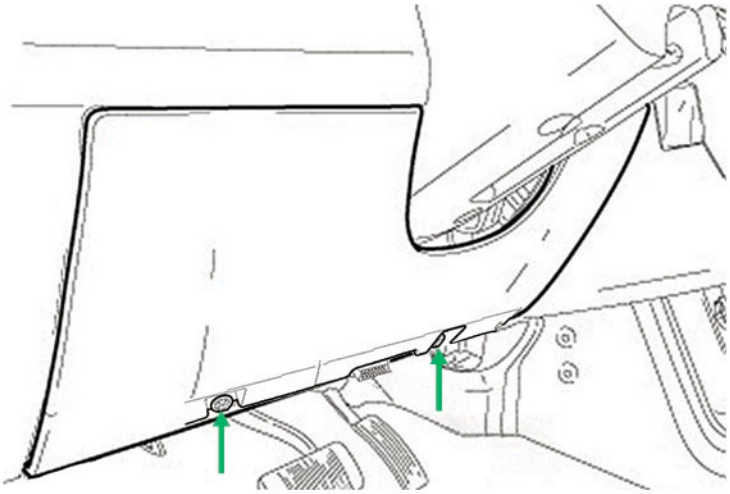


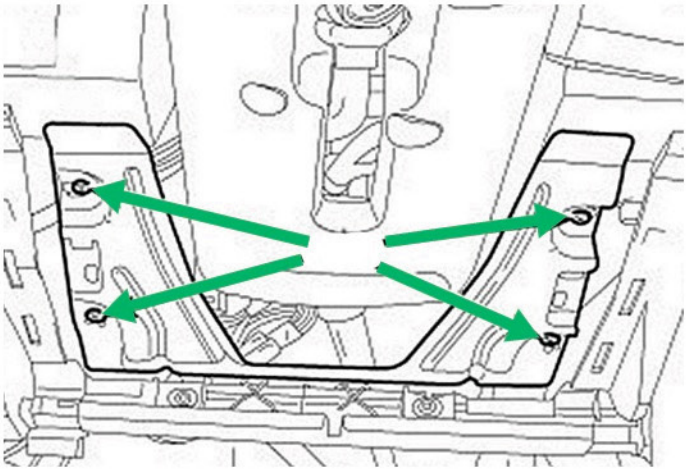
It is not necessary to remove the switch from the dash as there should be plenty of access to the wiring with the Knee Panel removed. If you want to unplug the connector, slide the red tab backwards before depressing the locking tab to unplug it.

Connect the White/Brown wire from the remote start harness to the White/Brown wire in Pin 1 of the Headlight Switch connector.

Disassembly and Accessing Connectors

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.





Remove four (4x) bolts from the Kneeblocker plate and then lift the plate up and off the hooks to remove it.

With the panel and plate removed, the Ignition Node connector will be easily accessible. Unplug the 12 pin connector from the bottom of the Ignition Node.

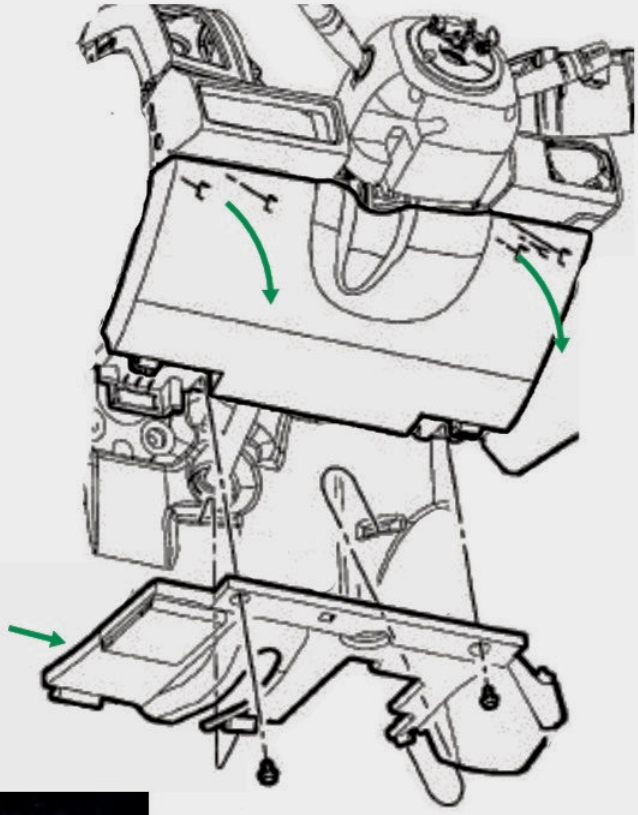
Plug the OEM harness into the VS2 connector on the harness. Plug the VS1 connector back into the Ignition Node.

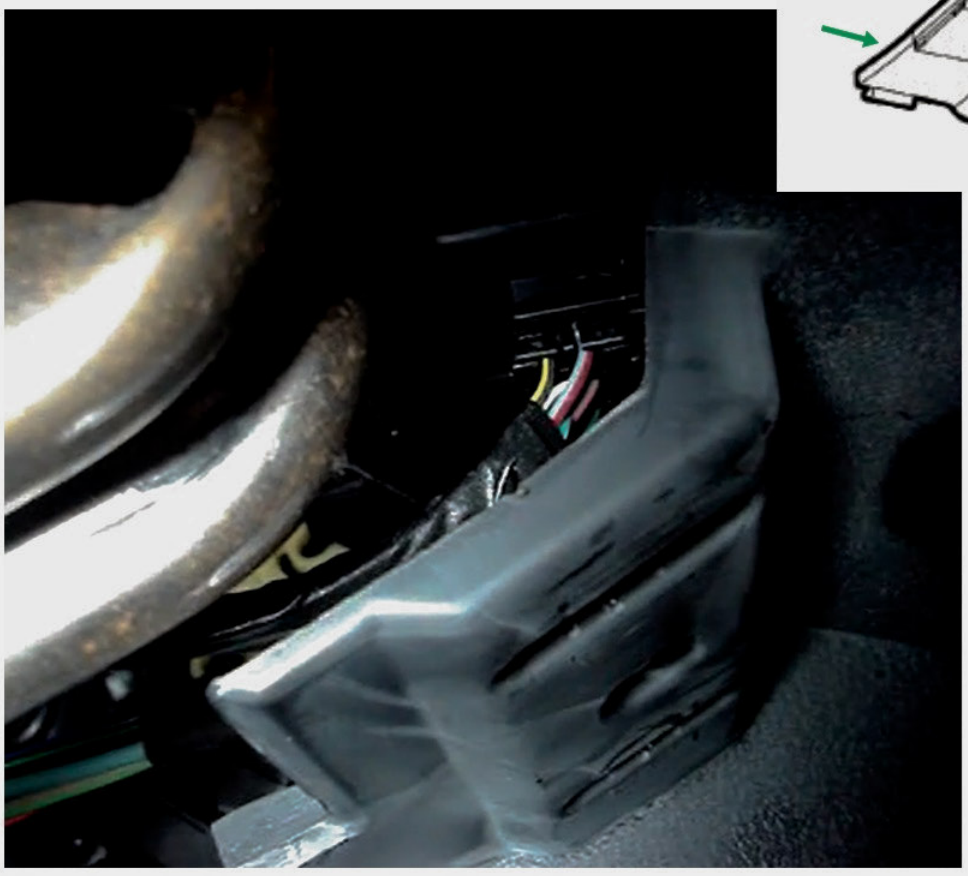


Disassembly and Accessing Connectors

Remove two (2x) bolts from the Insulator Panel below the drivers dash, lower the from of the panel and then pull away from the firewall to remove it.

With the aid of a panel removal tool, release the pop clips from the top of the Knee Panel then rotate the Knee Panel down and lift the lower hooks off of their hinge points to remove the panel from the dash.



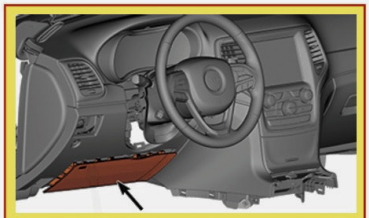


The Ignition Connector exits the bottom of the Ignition Node above the remaining dash trim. Reach in to the connector and unplug the 12 pin connector from the bottom of the Ignition Node.

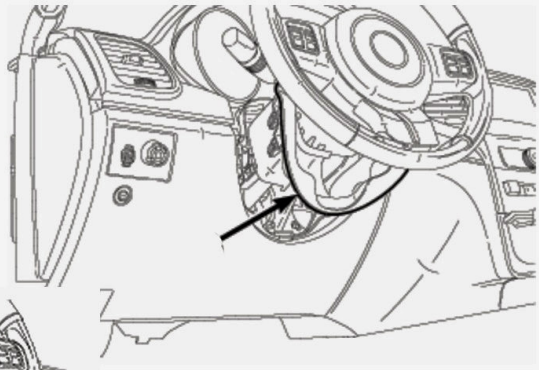
Plug the OEM harness into the VS2 connector on the harness. Plug the VS1 connector back into the Ignition Node.

Disassembly and Accessing Connectors

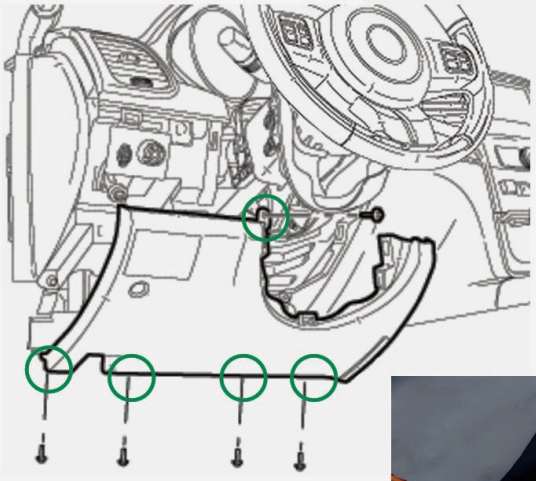
Remove the Knee Bolster Panel for the best access to the connectors and wire routing.



If vehicle is equpped with Kneeblocker Airbag in Knee Bolster Panel, use Dodge Durango instructions for steps to access connector through the Instrument Cluster opening.

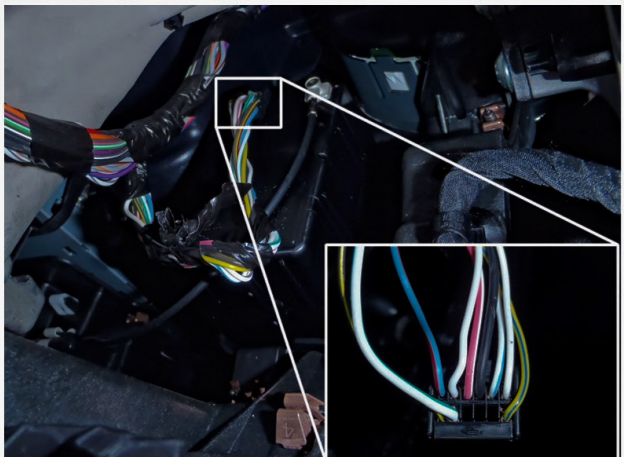


Lower and extend the steering column and then use a panel removal tool to release the Steering Column Trim Ring from the dash.



Remove one (1x) screw on the left side of the steering column opening revealed by removing the column trim ring, remove four (4x) screws along the bottom edge of the knee bolster panel. Disconnect the headlight switch and fuel door release connectors and position the panel aside.

Reach behind the Ignition Node and disconnect the 12 pin connector.

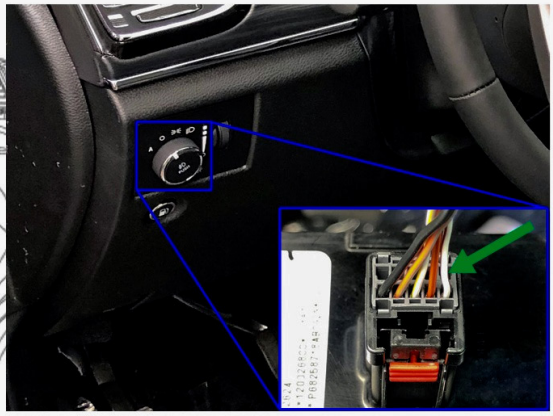


Plug the OEM harness into the VS2 connector on the harness. Plug the VS1 connector back into the Ignition Node.

Optional Parking Light Connection

If you would like the vehicles parking lights to come on with remote start, this connection must be made. It is an optional connection and the remote start will operate fine without making the connection if preferred.





The headlight switch is mounted into the Knee Bolster Panel which was likely already removed. If you did not remove the Knee Bolster Panel, the switch can be removed from the panel using a panel removal tool to pry around the edge of the switch and pop it out of the panel.

Connect the White/Brown wire from the remote start harness to the White/Green wire in Pin 1 of the Headlight Switch connector.

STEP 2.1: Optional Parking Light Wiring Connection

PARKING LIGHT WIRE CONNECTION IMPORTANT NOTE:

- This is an optional connection that triggers the parking lights while the remote start is running.
- Some models have a **10-pin** connector with the white, white/brown, or white/light green wire in **pin 1**.
- Some models have a **6-Pin** connector with a white/light-green wire in **pin 3**.

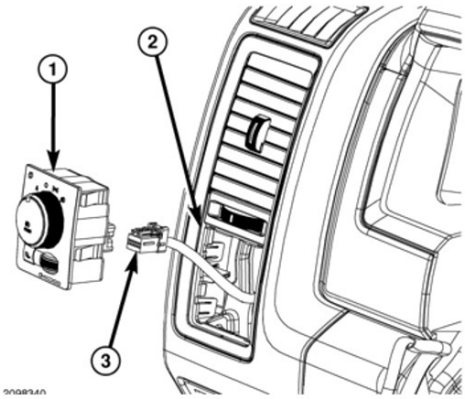
Optional Parking Light Connection

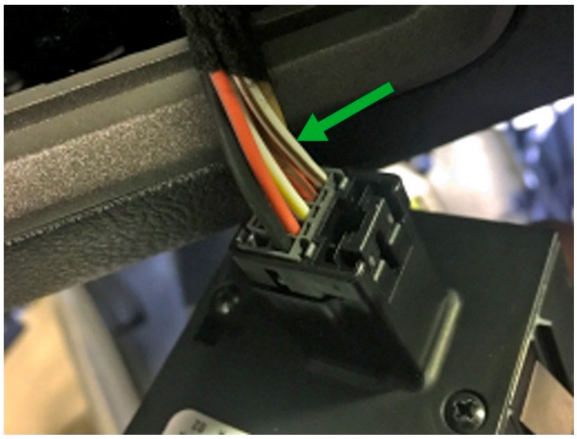
The wire color may either be white, white/brown or white/light-green depending on your model, but headlight switches with 10-pin connectors will have the parking light wire in pin position 1 as shown below.



② Headlight Switch - 10 pin connector

If you would like the vehicles parking lights to come on with remote start, this connection must be made. It is an optional connection and the remote start will operate fine without making the connection if preferred.





To remove the headlight switch from the dash, use a panel removal tool to pop the assembly free.

Connect the White/Brown wire from the remote start harness to the White (possibly White/Brown) wire in Pin 1 of the Headlight Switch connector.

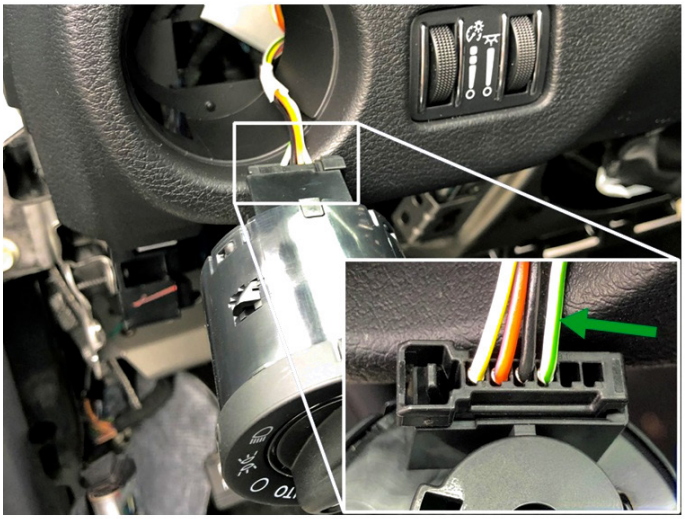
- OR -

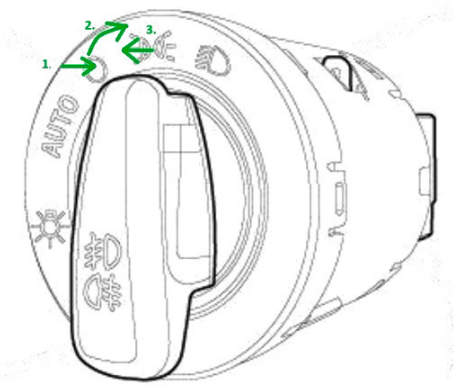
Optional Parking Light Connection

6-pin Headlight Switch Connector with wire color white with a light-green stripe in pin position #3



If you would like the vehicles parking lights to come on with remote start, this connection must be made. It is an optional connection and the remote start will operate fine without making the connection if preferred.





To remove the headlight switch from the dash, turn the switch to the Off (o) position, then push inward on the rotary knob and while pushing in turn to the Right toward the Parking Light position to release the retainer tabs, then pull out toward you and the assembly will release from the dash.

Connect the White/Brown wire from the remote start harness to the White/Green wire in Pin 3 of the Headlight Switch connector.

Step 3: Programming Your Module

01 

Close driver door and re-open drivers door to wake up data bus.

02 

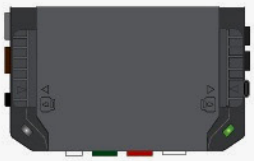
Set ignition to ON position.

03 

LED 1 will turn solid RED briefly.

04 

Within 5 seconds, LED 1 will flash GREEN rapidly.



LED 1

05 

Set ignition to OFF position.

06 

Press UNLOCK on the OEM remote.

If vehicle does not have functioning OEM keyless entry, press module programming button to skip keyless learn (keyless entry from aftermarket remotes or smartphone may not work).

07 

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



LED 1

08 

START vehicle for and allow it to idle for about 15 seconds.

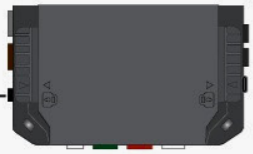
09 

Press and hold the brake pedal.

10 

Press and release the module's programming button.

PROGRAM BUTTON



11 

Release the brake pedal.

12 

Wait, LED 2 will flash GREEN twice (2x) and then turn off.

LED 2

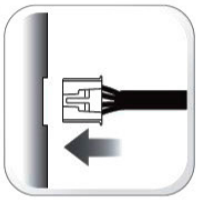




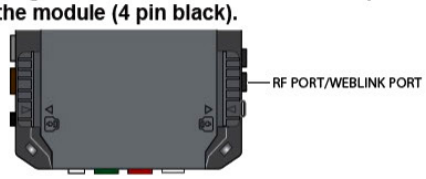
Module Programming Procedure completed.

Programming Add on RF Remote Upgrade Kits RFKIT1-2W-4

>>



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 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.

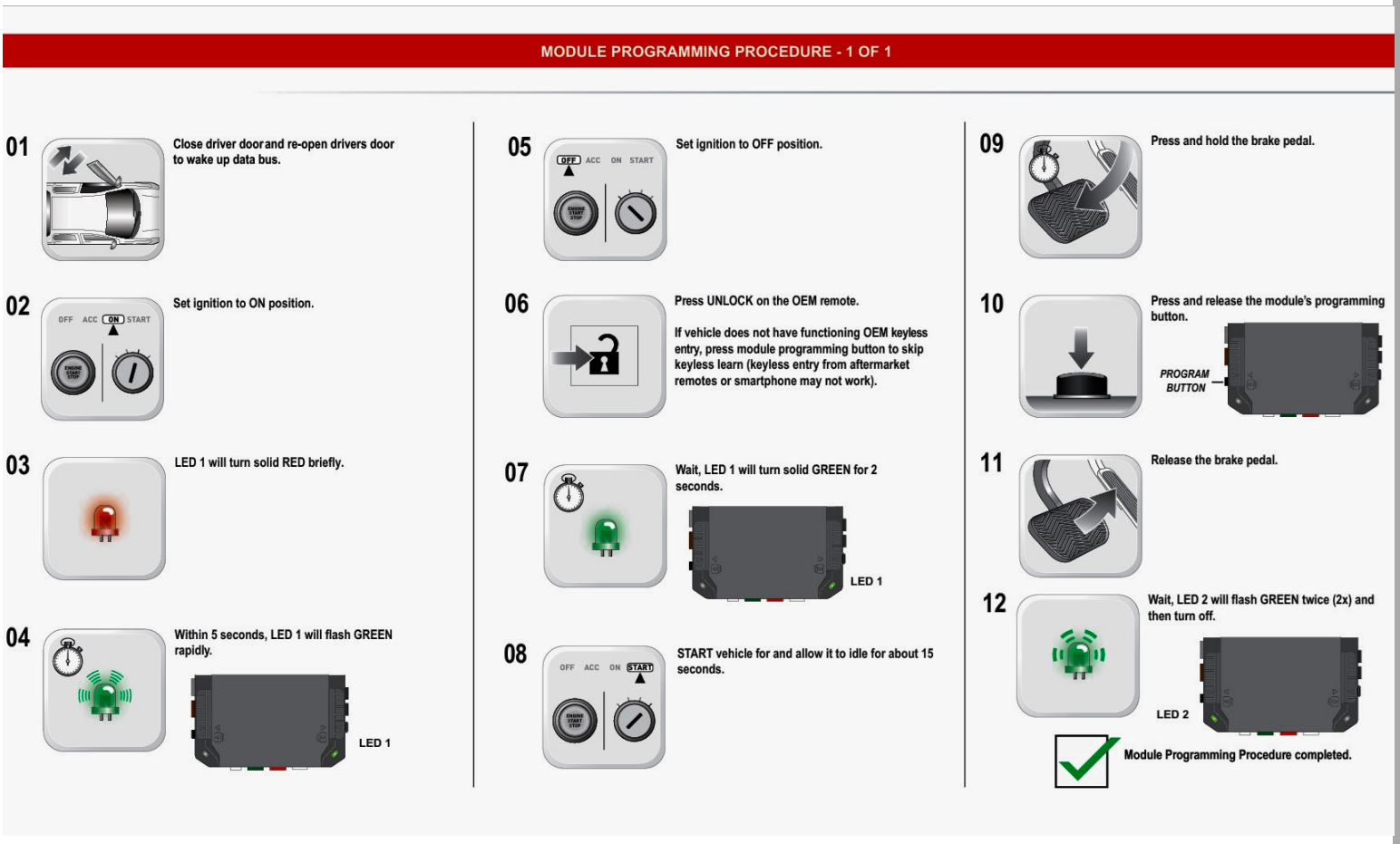
STEP 4: Finishing up!

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

Press lock 3 times to start, the vehicle will run for 15 minutes. Follow the take over procedure below.



DIESEL DELAY SETTING FOR DIESEL ONLY PART 1

***This setting is an option to delay start on Diesel Trucks.**





Warning: Disconnect the power connector last when unplugging from the vehicle. Unplug all the connectors first then unplug the M1 8-Pin Main Wiring Harness and bring to your PC or Laptop.

Click Here for WEBLINK Software

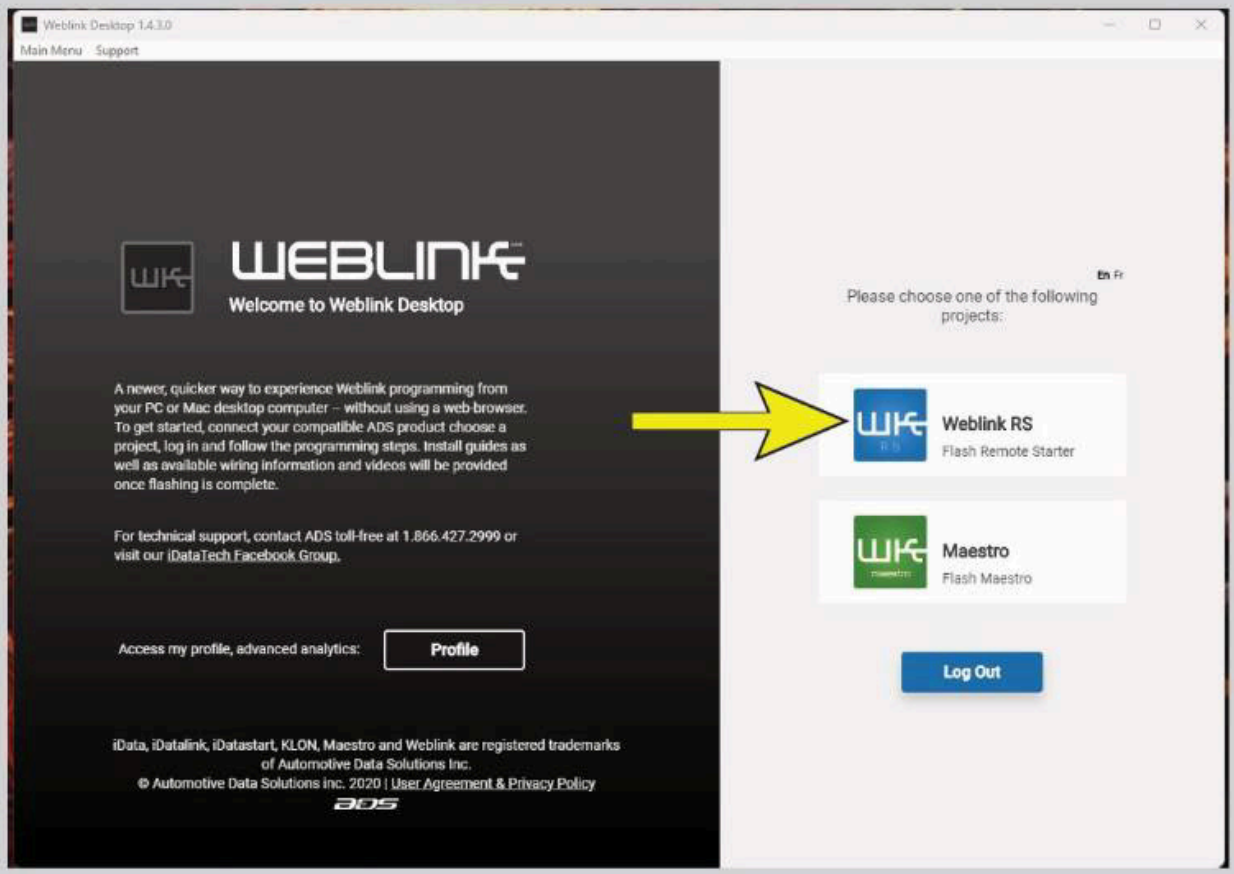
Login with this User Name: **flash@mypushcart.com**

Use This Password: **MPCFlash2025**!

Download WEBLINK updater program then save it to your Windows or MAC computer. Plug the module into the USB port of your computer using a USBA to USBC cable.

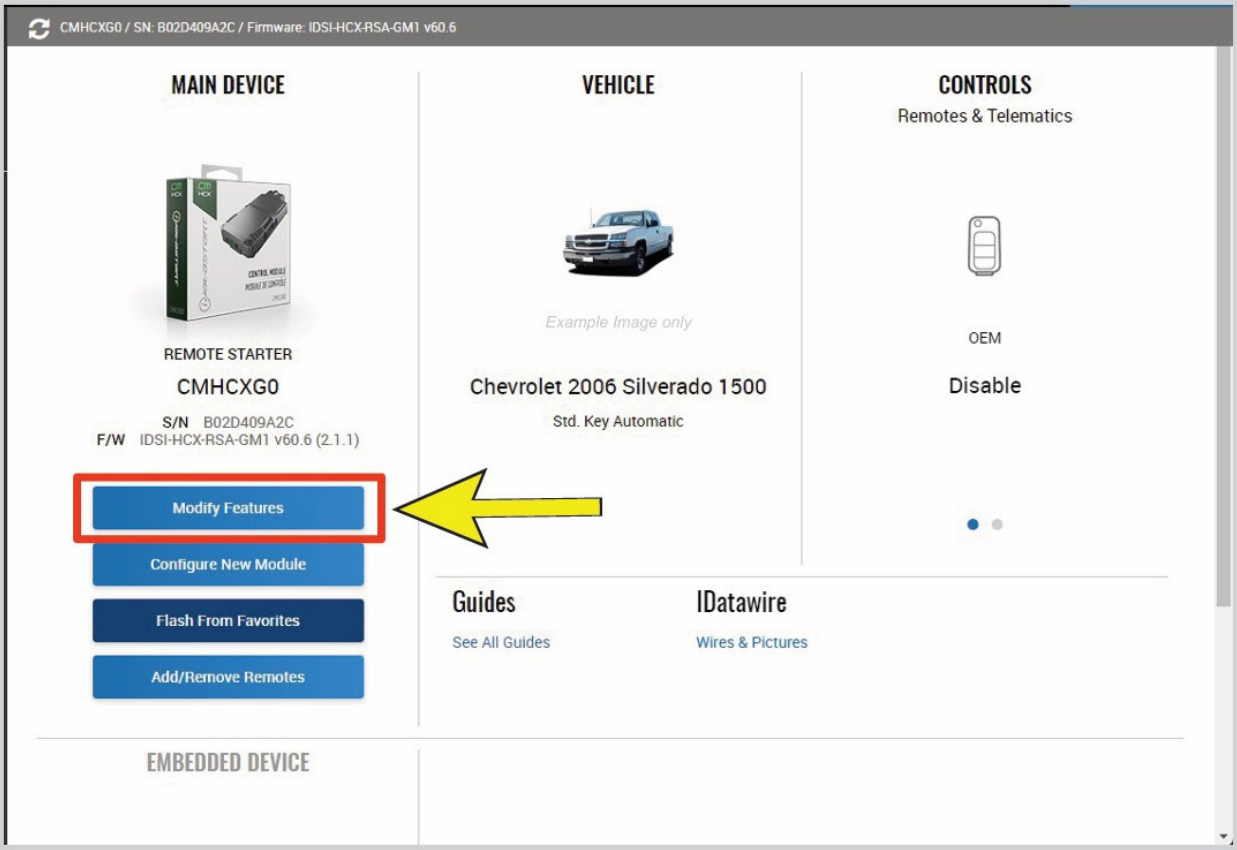
weblinkupdater.com/weblinkdesktop/en



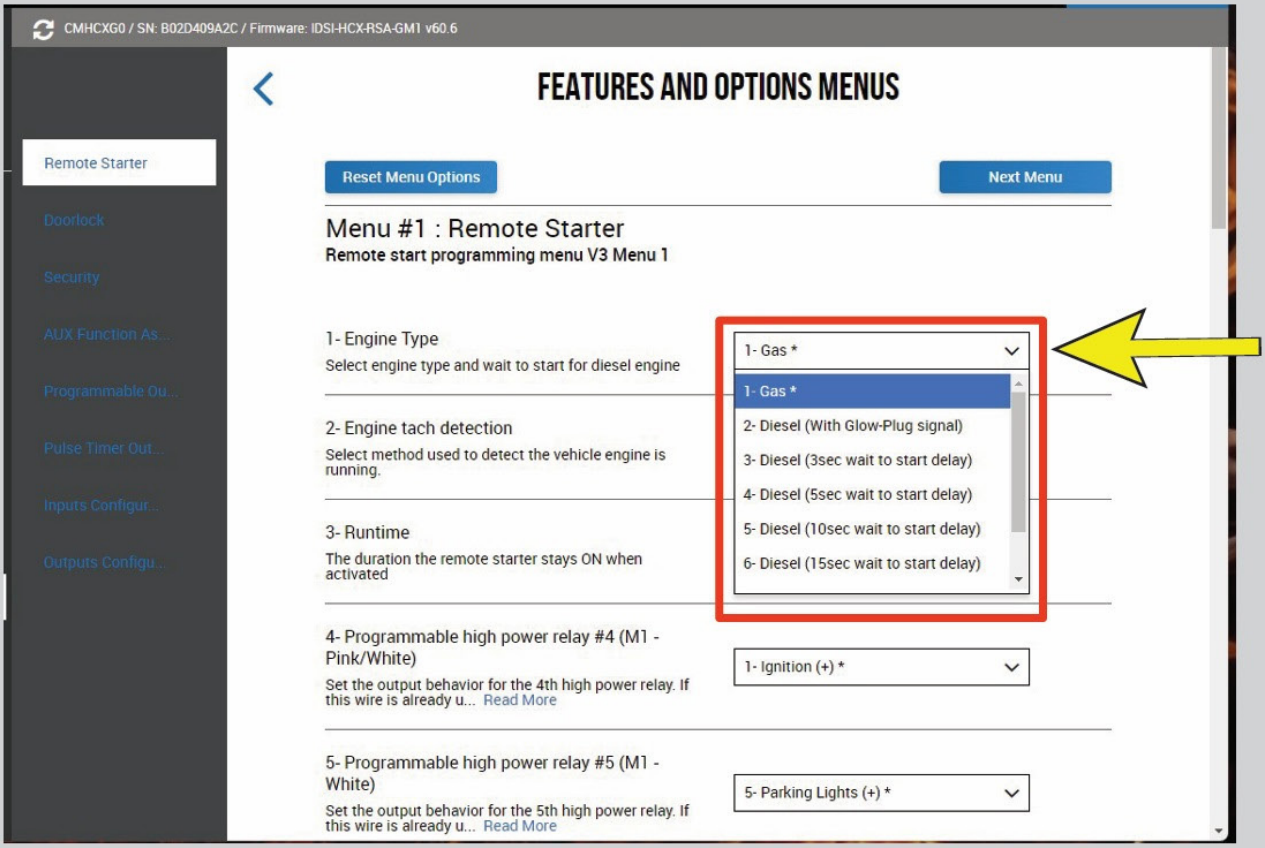


Install and Login in to WEBLINK Updater. Select Weblink RS Flash remote Starter.

DIESEL DELAY SETTING FOR DIESEL ONLY PART 2



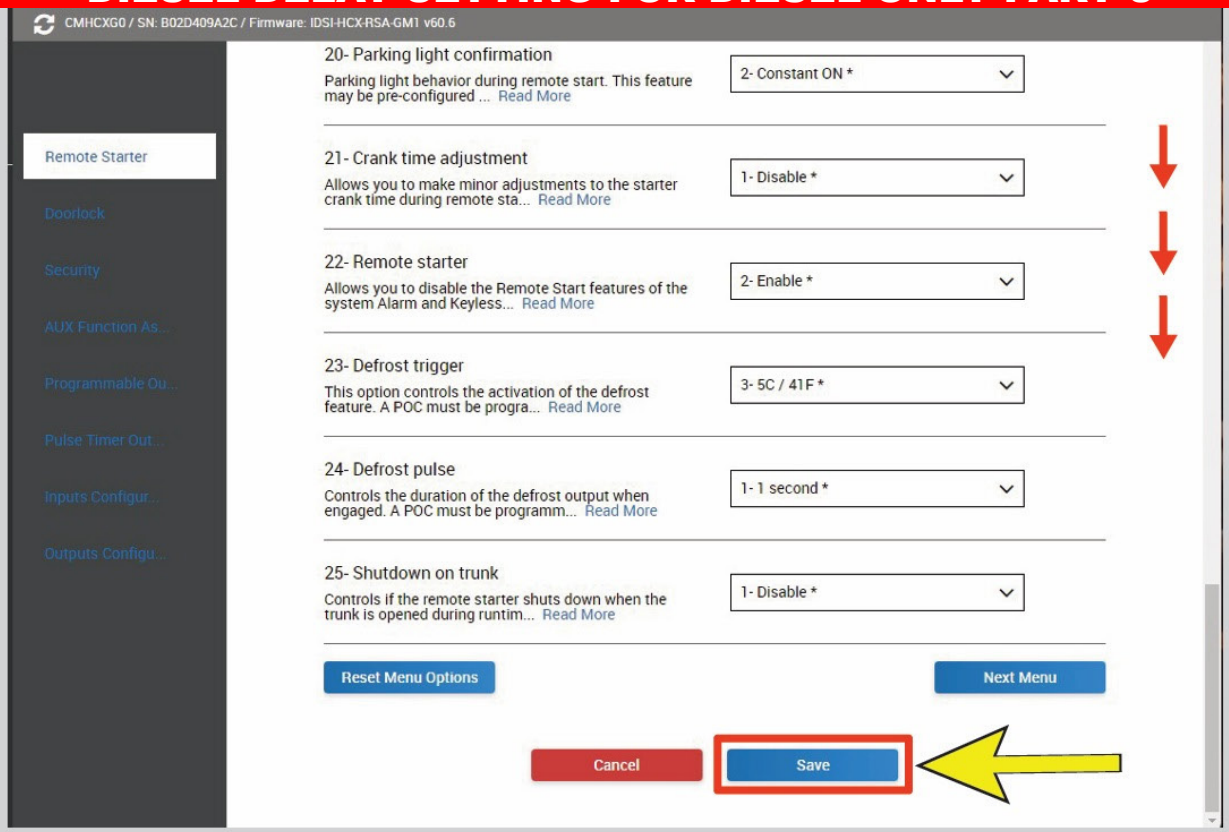
Once the device loads, select Modify Features.



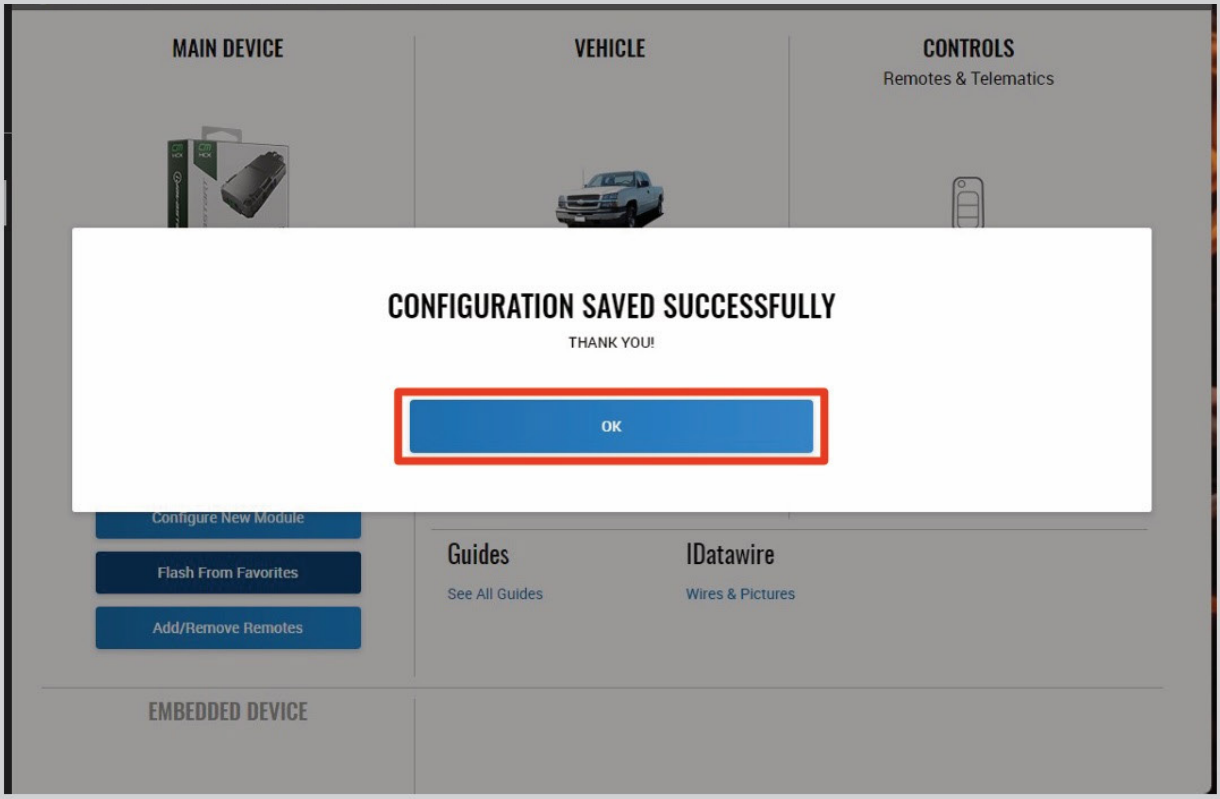
Select 1-Enigine Type drop down menu. Select your desired Diesel delay option.

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 #8 are preset Wait-to-Start times.

DIESEL DELAY SETTING FOR DIESEL ONLY PART 3

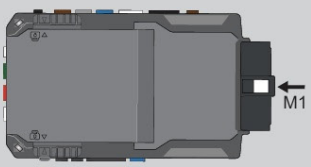


Scroll to the bottom of the page and select Save..



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.





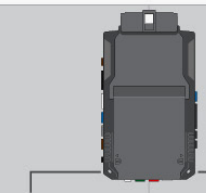
Install back in to the Vehicle

Troubleshooting Charts

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 flashes and clicks for the diagnostics code. The second number of flashes/clicks corresponds to a remote start diagnostic error code. This will tell you why the remote starter is failing to start. 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. 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.

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