INSTALLATION GUIDE

VOXX·DEI LLC
A VOXX ELECTRONICS COMPANY

403.HYUNDAI4
v4.01.106



2018 Hyundai Santa Fe (Smart Key)

Functions compatible with the 2018 Hyundai Santa Fe (Smart Key)

- 3x LOCK START (Start control using OEM Remote)
- 3x LOCK STOP (Stop control using OEM Remote)
- Arm Factory Security
- Brake Status (foot brake)
- Control of aftermarket alarm with OEM remote
- Disarm Factory Security
- Door Lock Control
- Door Unlock
- Driver Priority Unlock
- Entry Monitoring ALL Door Pins
- Entry Monitoring Hood Pin
- Entry Monitoring Trunk/Hatch Pin
- Fuel level/EV battery level
- Ignition Status
- Immobilizer Bypass-Data No Key Req'd
- Remote Start Ready
- Remote Start Takeover
- SmartStart
- Tach / RPM Output
- Trunk / Hatch Release

This product is intended for installation by a professional installer only! Attempts to install this product by a person other than a trained professional may result in severe damage to a vehicle's electrical system and components.

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Designed by Installers for Installers

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Introduction

This guide supports the installation of a DB3, which is an all-in-one door lock and override interface module in Remote Start Ready (RSR) mode. RSR is a function that enables the DB3 to remote start the vehicle completely on its own. Consequently, there is no need for an aftermarket or an OEM remote starter in order to start the vehicle from a distance.

This solution may offer up to four (4) configuration options to control your system (all sold separately):

- **3x OEM Lock Remote Start Activation:** if applicable, refer to the "Vehicle function compatibilities" section.
- **SmartStart Pro Compatible**: SmartStart Pro is equipped with D2D, which means it can be connected to an interface module and used in RSR mode without the use of a remote starter. See "Module programming" for more information.
- **Digital RF Kit Compatible**: This firmware supports D2D 2.0, which means Digital RF kits can be connected to the interface module and used when in RSR mode (*compatible with firmware version ending with .101 or higher only*).
- **XL202 & Analog RF Kit**

Notes

- This module can only be flashed and configured using DirectLink at www.directechs.com.
- RSR mode is not compatible with vehicles equipped with a manual transmission.

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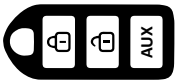
Pre-installation and application warnings



This section highlights important information for this specific firmware and will assist in pricing accordingly, as well as bringing awareness to any operational or vehicle limitations.

Compatibilities and Requirements

T-Harness compatible 	T-Harness is not compatible.		**Keys required for programming**	**1**	**Keys required for operation** **0**
Vehicle Takeover	**Yes** ☒ – Refer to the **Quick Reference Guide** section for more details.				

Firmware notes

- **Remote Start Ready (RSR) installations** are not compatible with vehicles equipped with a manual transmission.
- **Remote Start Ready (RSR)** is a function that enables the interface module to remote start the vehicle completely on its own. Consequently, there is no need for an aftermarket or an OEM remote starter in order to start the vehicle from a distance.
- **SmartStart Compatible**: SmartStart is equipped with D2D, which means it can be connected to an interface module and used in Remote Start Ready (RSR) mode without the use of a remote starter. See "Module programming" for more information.
- Unless specified otherwise, all connectors are displayed from the wire side, with the exception of the OBDII diagnostic connector.
- Refer to the "Vehicle connections" following the installation diagram.

Footnotes 1 2 3

[1] **Hood pin**: The installation of an aftermarket hood pin is only required on vehicles that are not equipped with a factory hood pin or if not supported in data.

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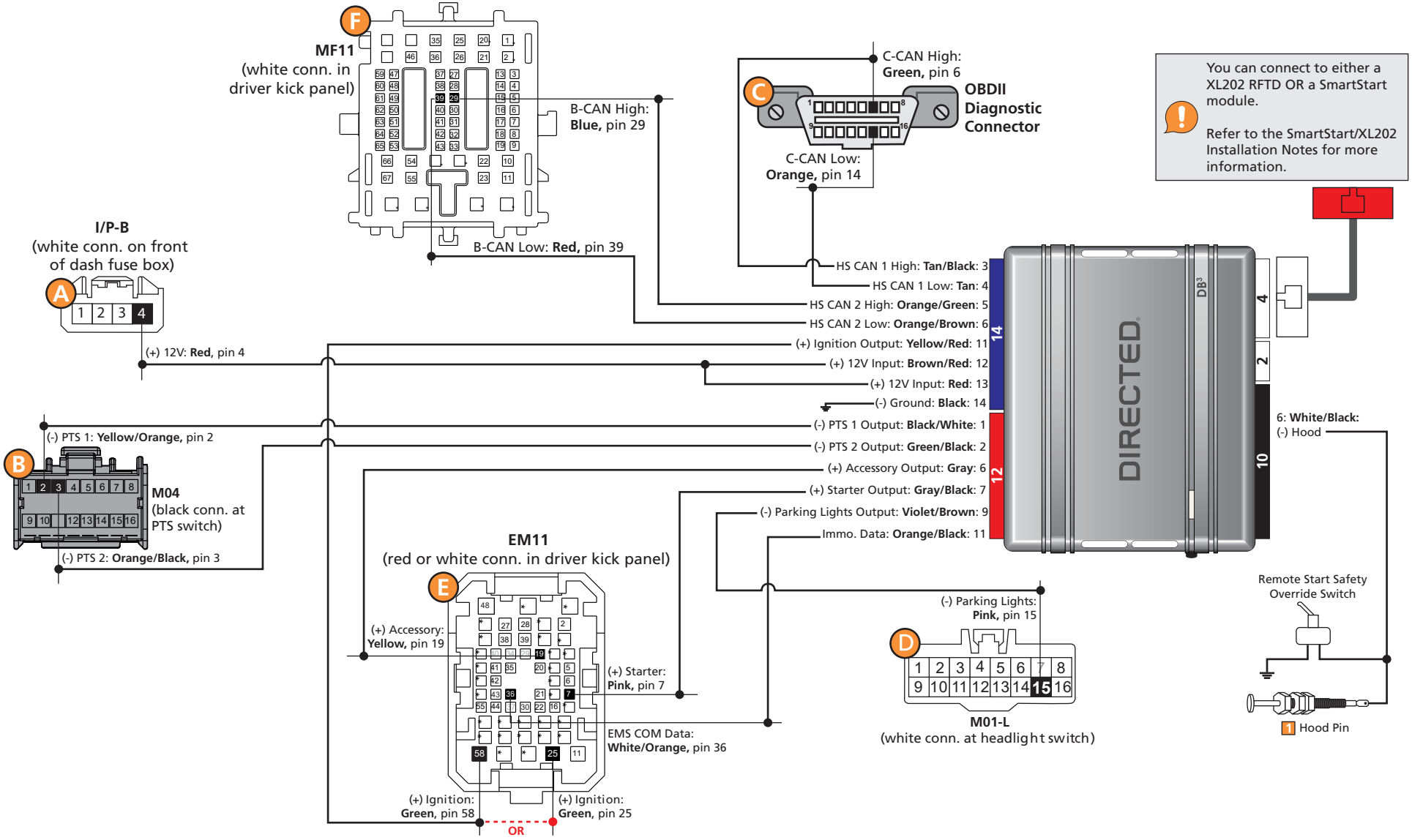
Wiring diagram

Refer to "Pre-installation and application warnings" for important information, such as the description of each special note referenced in the diagram (1 2 3).



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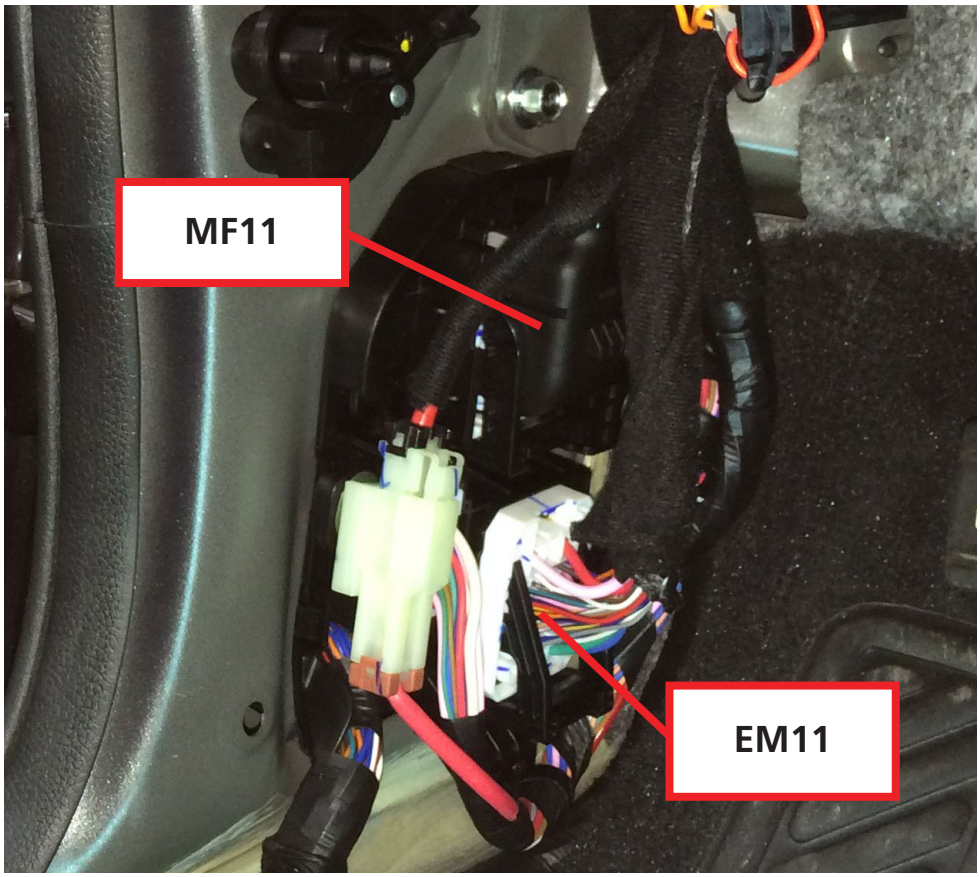
Locating components in the vehicle



Driver kick panel



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Vehicle connections

The connection information listed below is specific to the 2018 Hyundai Santa Fe (Smart Key). Refer to "Pre-installation and application warnings" for a list of important notes.

Data 14-pin blue connector (H1)

Module			Connects To		
Conn./Pin	Color	Description	Wire Location	(+/-)	Wire Color
H1/1	Light Green	No Connection	No Connection		
H1/2	Violet/Yellow	No Connection	No Connection		
H1/3	Tan/Black	(DATA) HS CAN 1 High	OBD-Data Link Connector, black 16 pin plug, pin 6	Data	Green (C-CAN)
H1/4	Tan	(DATA) HS CAN 1 Low	OBD-Data Link Connector, black 16 pin plug, pin 14	Data	Orange (C-CAN)
H1/5	Orange/Green	(DATA) HS CAN 2 High	Driver Kick, white or blue 68 pin plug (MF11), pin 29	Data	Blue (B-CAN)
H1/6	Orange/Brown	(DATA) HS CAN 2 Low	Driver Kick, white or blue 68 pin plug (MF11), pin 39	Data	Red (B-CAN)
H1/7	Brown	Relay N.O. - No Connection	No Connection		
H1/8	Yellow	Relay COM. - No Connectoin	No Connection		
H1/9	Orange/Yellow	Relay N.C. - No Connection	No Connection		
H1/10	Orange/Red	Relay N.C. - No Connection	No Connection		
H1/11	Yellow/Red	Relay COM. - (+) Ignition Output	Driver Kick, white or red 58 pin plug (EM11), pin 25 or 58	+	Green
H1/12	Brown/Red	Relay N.O. - (+) 12V Input	Smart Junction Box-Dash Fuse Box, white 4 pin plug (B), pin 4	+	Red (50A)
H1/13	Red	(+) 12 Volt Input	Smart Junction Box-Dash Fuse Box, white 4 pin plug (B), pin 4	+	Red (50A)
H1/14	Black	(-) Ground			(chassis ground)

Output 12-pin red connector (H2)

Module			Connects To		
Conn./Pin	Color	Description	Wire Location	(+/-)	Wire Color
H2/1	Black/White	(-) PTS 1 Output	Start Stop Button Switch, black 16 pin plug, pin 2	-	Yellow/Orange
H2/2	Green/Black	(-) PTS 2 Output	Start Stop Button Switch, black 16 pin plug, pin 3	-	Orange/Black
H2/3	Green/White	No Connection	No Connection		
H2/4	Red/Black	No Connection	No Connection		
H2/5	Violet/White	No Connection	No Connection		
H2/6	Gray	(+) Accessory Output	Driver Kick, white or red 58 pin plug (EM11), pin 19	+	Yellow
H2/7	Gray/Black	(+) Starter Output	Driver Kick, white or red 58 pin plug (EM11), pin 7	+	Pink
H2/8	Violet/Green	No Connection	No Connection		
H2/9	Violet/Brown	(-) Parking Lights Output	Headlight Switch, white 16 pin plug, pin 15	-	Pink
H2/10	Yellow/Black	No Connection	No Connection		
H2/11	Orange/Black	Immo. Data	Driver Kick, white or red 58 pin plug (EM11), pin 36	Data	White/Orange (EMS COM)
H2/12	Blue/Red	No Connection	No Connection		

Input 10-pin black connector (H3)

Module			Connects To		
Conn./Pin	Color	Description	Wire Location	(+/-)	Wire Color
H3/1	Green	No Connection	No Connection		

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Module			Connects To		
Conn./Pin	Color	Description	Wire Location	(+/-)	Wire Color
H3/2	Blue	No Connection	No Connection		
H3/3	Red/White	No Connection	No Connection		
H3/4	White/Violet	No Connection	No Connection		
H3/5	Violet/Black	No Connection	No Connection		
H3/6	*White/Black*	*(-) Hood Switch Input* [1]			
H3/7	Pink/White	No Connection	No Connection		
H3/8	Violet	No Connection	No Connection		
H3/9	Pink	No Connection	No Connection		
H3/10	Blue/White	No Connection	No Connection		

D2D 4-pin white connector (H4)

Module		
Conn./Pin	Color	Description
H4/1	Green	(Data) TX
H4/2	Black	(-) Ground
H4/3	Blue	(Data) RX
H4/4	Red	(+) 12 Volt

RF 2-pin white connector (H5)

Module		
Conn./Pin	Color	Description
H5/1	N/A	No Connection
H5/2	N/A	No Connection

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Module programming

Refer to “LED diagnostics and troubleshooting” for more information and for troubleshooting purposes.

For Convenience-Only programming, see next section.

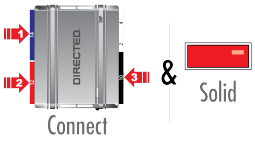
1 Ensure vehicle is in a safe location and cannot move forward during programming.



2 The harnesses must be connected in this exact order:

1. Connect the 14-pin.
2. Connect the 12-pin.
3. Connect the 10-pin.

When the LED turns ON solid red, proceed with the next step.



3 **Important!** Do NOT depress the brake pedal.

Press the Push-to-Start (PTS) button twice (2) to turn the ignition ON.



4 The LED starts flashing orange, then it turns ON green for 3 seconds, before shutting OFF.



5 Press the PTS button once (1) more to turn the ignition OFF.



You have successfully completed the module programming sequence.

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Module programming for convenience features only (skip transponder)

Refer to "LED diagnostics and troubleshooting" for more information and for troubleshooting purposes.

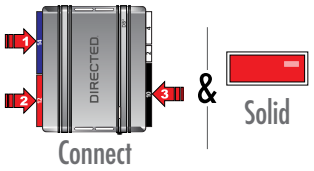
1 Ensure vehicle is in a safe location and cannot move forward during programming.



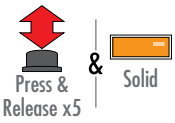
2 The harnesses must be connected in this exact order:

1. Connect the 14-pin.
2. Connect the 12-pin.
3. Connect the 10-pin.

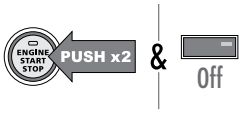
When the LED turns on solid red, proceed with the next step.



3 Press the programming button five (5) times.
The LED turns ON solid orange.



4 Press twice (2) on the Push-to-Start (PTS) button to turn the ignition ON, then the LED shuts OFF.



5 Press once (1) more on the PTS button to turn the ignition OFF.



You have successfully completed the module programming sequence.

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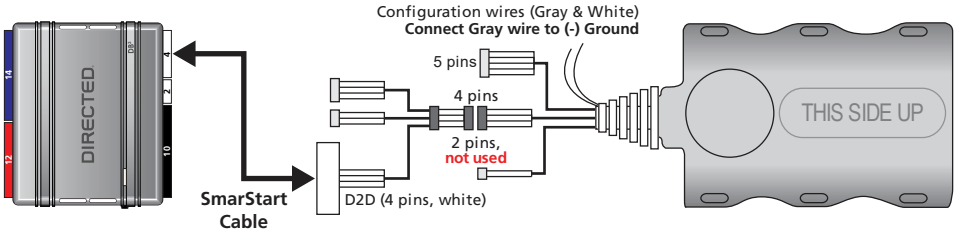
SmartStart Pro/Digital RF Kit/XL202 installation notes

The DB3 Remote Start Ready (RSR) solution offers four (4) configuration options to control your system: 3x OEM Lock Remote Start Activation (if applicable, refer to the "vehicle function compatibilities" section), SmartStart Pro, Digital RF Kit, XL202 & Analog RF Kit (all sold separatly). This section provides specific installation information for these solutions.

SmartStart Pro

Must have the Gray wire grounded before connecting to the D2D port.

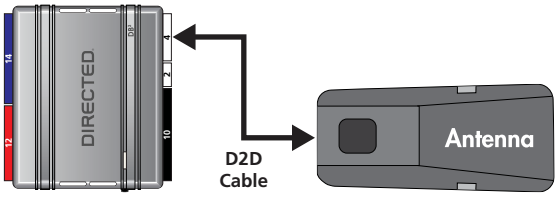


Note: The SmartStart Pro is optional and must be purchased separately.

Digital RF Kit

The DB3 must be programmed to the vehicle before pairing.

This configuration requires the remote and the antenna to be paired by following the pairing procedure provided with the Digital RF Kit.



Note: The Digital RF Kit is optional and must be purchased separately.

XL202 & Analog RF Kit

Use the D2D Crossover (XOVER) cable that is provided with XL202 (not the one in the DB3 package)

Follow the XL202 Programming Guide to pair the remote to the XL202.



Note: The XL202 and antenna are optional and must be purchased separately.

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LED diagnostics and troubleshooting

This section provides LED diagnostics and troubleshooting information to guide you through the various stages of your installation.

Module Programming

LED	Description	Troubleshooting
Off	Module has no power.	Make sure the D2D harness is connected and that 12 Volt is present between the red and black wires. If 12 Volt is present, the module may be defective.
Solid red	Waiting to begin the programming sequence.	Ensure the correct programming procedure is being followed.
Flashes green & red	Initialization failed.	Reset the module and complete the programming again. If the issue persists, please contact Technical Support.
Solid orange	Transponder functions were skipped.	(If compatible) when RXT mode is not desired or convenience features are needed, please reset the and reprogram the module.
Flashes green	All required CAN networks has been detected.	Normal operation.
Flashes orange	1 of 2 CAN networks has been detected.	Normal operation.
Flashes orange slowly	Key2GO initiated.	Please follow the steps indicated in “Module programming” to complete the Key2GO programming.
Solid green x 3 secs	Module was successfully programmed with all functions.	Normal operation.
Solid orange x 3 secs	Module was successfully programmed without transponder functions.	Normal operation.

Module Programming - Error codes

LED	Description	Troubleshooting
Flashes red x 1	CAN2 not detected.	Check the CAN2 Orange/Green and Orange/Brown wire connections. Wake up the data bus by turning the ignition on and try again. If your installation does not require this connection, skip this step by pressing the programming button 5 times.
Flashes red x 1	J1850 not detected.	Check the J1850 wire connection. Wake up the data bus by turning the ignition on and try again.
Flashes red x 2	CAN1 not detected.	Check the CAN1 Tan and Tan/Black wire connections. Wake up the data bus by turning the ignition on and try again. If your installation does not require this connection, skip this step by pressing the programming button 5 times.
Flashes red x 3	Bypass data not detected.	Check the bypass line connection. If more than one wire is used, make sure they are not inverted. Ensure the vehicle still operates correctly using the factory key.
Flashes red x 4	Bypass processing error.	The bypass calculation failed. Reset the module and try again. If the condition persists, please contact Technical Support.
Flashes red x 5	ISO 1 not detected.	The Yellow/Black wire did not detect the expected signal. Refer to “Installation (wiring diagrams & vehicle wiring reference charts)” on page “Installation (wiring diagrams & vehicle wiring reference charts)” to check the connections.
Flashes red x 6	ISO 2 not detected.	The Orange/Black wire did not detect the expected signal. Refer to “Installation (wiring diagrams & vehicle wiring reference charts)” to check the connections.
Flashes red x 7	MUX not detected.	The Violet/Green or Violet/Brown wire did not detect the expected voltage value. Refer to “Installation (wiring diagrams & vehicle wiring reference charts)” to check the connections.

External Module Synchronization

LED	Description	Troubleshooting
(Flashes red, red, then orange) x 10	OBDII feature not supported.	The diagnostic data bus was not detected, therefore the SmartStart features will be limited.

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Active Ground When Running (Status)

LED	Description	Troubleshooting
Flashes green	Ground When Running (Status) command received.	The module has initialized the remote start sequence.
Flashes red & orange	Ignition ON command received.	The module has received the Ignition ON command and is processing the remote start sequence.
Flashes green quickly	Start ON command received.	The module has received the Start ON command and is processing the remote start sequence.
Flashes red x 10	PTS shutdown error.	The PTS output from the module was not activated due to safety protection.
Flashes red x 21	CAN bus incorrectly detected.	Verify the CAN1 and CAN2 connections. Refer to "Installation (wiring diagrams & vehicle wiring reference charts)" to check the connections.

Commands

LED	Description	Troubleshooting
Flashes orange x 1	LOCK command received.	If the bypass module fails to flash, it did not receive the signal. Commands can come from RF or D2D.
Flashes orange x 2	UNLOCK command received.	If the bypass module fails to flash, it did not receive the signal. Commands can come from RF or D2D.
Flashes orange x 3	TRUNK command received.	If the bypass module fails to flash, it did not receive the signal. Commands can come from RF or D2D.
Flashes orange x 4	AUX1 command received.	If the bypass module fails to flash, it did not receive the signal. Commands can come from RF or D2D.
Flashes orange x 5	AUX2 command received.	If the bypass module fails to flash, it did not receive the signal. Commands can come from RF or D2D.
Flashes orange x 6	AUX3 command received.	If the bypass module fails to flash, it did not receive the signal. Commands can come from RF or D2D.

Shutdown Codes

LED	Description	Troubleshooting
Flashes green x 1	Takeover successful.	Normal operation.
Flashes red x 1	Runsafe was not disabled.	No UNLOCK command was received prior to opening the door, or the 45 second timer expired in takeover mode.
Flashes red x 2	Brake was not detected.	The brakes were not detected, which prevents the system from shutting down the vehicle.
Flashes red x 3	Smart key was not detected.	The smart key was not detected, which prevents the system from shutting down the vehicle.
Flashes red x 4	Speed was detected.	The vehicle was detected as moving, which prevents the system from shutting it down.

RSR Error Codes

LED	Description	Troubleshooting
Flashes red x 7	RFTD disabled.	3x OEM Lock Remote Start Activation was attempted when the RFTD feature is disabled. Make sure 3x Lock Start is selected from the web in the flashing process.
Flashes red x 9	Feature error.	An RSR feature file mismatch was detected. Please contact Technical Support.

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Parking light error codes

The parking lights on your vehicle will flash a specific number of times 3 seconds following an unscheduled shutdown. Each flashing pattern is described below.

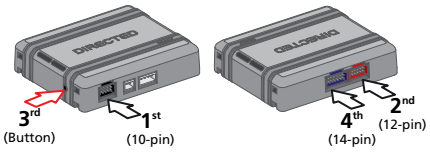
Flashes	Diagnostic
1	Runtime expired.
2	Over-rev shutdown.
3	Low or no RPM.
4	Shutdown without remote.
5	Brake shutdown.
6	Hood shutdown/Remote start safety override switch is ON.*
7	Remote start safety override switch is ON.*

* If the vehicle hood status is supported through data, the safety override switch input will report 7 flashes.

Soft reset

A module reset will only erase the steps perfomed in “Module Programming”. The firmware and settings flashed to the module will not be affected.

1 Connect the 10-pin & 12-pin harnesses to the module. Press and hold the programming button, then connect the 14-pin harness to the module.



2 Wait 3 seconds until the LED turns ON solid orange then release the programming button. The LED turns ON solid red.

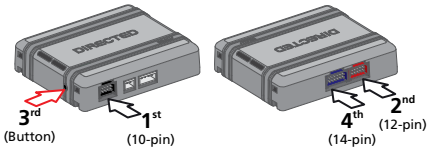


Hard reset

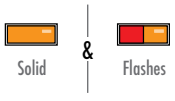
Warning Against Executing a Hard Reset!

A hard reset will revert the flashed firmware back to its default factory settings. Depending on the installation, some settings may need to be reconfigured. Connect your module to a computer and use the web configuration tool to edit its programmable features.

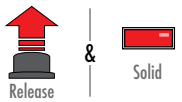
1 Connect the 10-pin & 12-pin harnesses to the module.
Press and hold the programming button, then connect the 14-pin harness to the module.



2 Wait 3 seconds until the LED turns ON solid orange, and wait 10 more seconds until the LED starts to flash orange and red.



3 Release the programming button. The LED turns ON solid red.



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Limited 12 Months Consumer Warranty

VOXX DEI LLC (the Company) warrants to the original purchaser of this product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 12 months from the date of original purchase, such defect(s) will be repaired or replaced with new or reconditioned product, (at the Company's option) without charge for parts or repair labor. A transmitter for a vehicle security or remote start system is warranted for 12 months from he date of original purchase.

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), authorization number, specification of defect(s), transportation prepaid, to an approved warranty station. This warranty is not transferable.

This Warranty does not cover damage to the vehicle's electrical system or costs incurred for the installation, removal or reinstallation of the product. This Warranty does not cover batteries, broken LCD transmitter display screens, nor apply to any product or part thereof which, in the opinion of the Company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, abuse, neglect, accident, or by removal or defacement of the factory serial number/bar code label(s).

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 24 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL
OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

The company does not warrant that this product cannot be compromised or circumvented. THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT WITHOUT INSTALLATION LABOR.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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Vehicle Takeover

1 Press the remote start button on the transmitter to start the vehicle.*

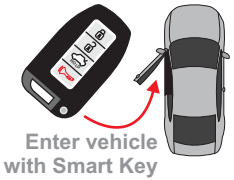


2 Press the Unlock button on the factory or aftermarket remote.*



Complete the following steps within 45 seconds or the vehicle will shut down.

3 Enter the vehicle, while making sure the factory remote is inside with you.



4 Press the PTS button twice to turn the ignition ON.



5 Press the brake pedal, put the car in gear and drive off.



* Your aftermarket remote may differ from the model shown in the illustrations.

Pit Stop Mode

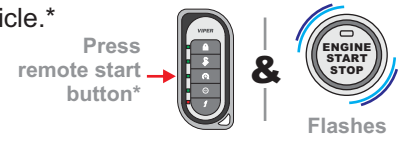
The Pit Stop Mode feature is practical when you need to stop and run an errand, but wish to keep the engine running.

1 Stop the vehicle in a safe parking spot and put the gear in Park (P).



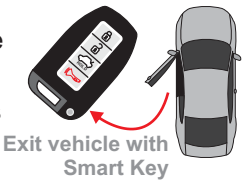
2 Press the button to remote start the vehicle.*

The PTS button will flash once to indicate the vehicle is now in Pit Stop Mode.



3 It is now safe to leave the engine running and exit the vehicle with the factory remote in hand.

Note: We recommend that you always lock the doors of your vehicle when leaving it unattended.



* Your aftermarket remote may differ from the model shown in the illustrations.

Parking Light Error Codes

The parking lights on your vehicle will flash a specific number of times 3 seconds following an unscheduled shutdown or failure to start. Each flashing pattern is described below.

Flashes	Diagnostic
1	Runtime expired.
2	Over-rev shutdown.
3	Low/No RPM.
4	Transmitter shutdown.
5	Brake shutdown.
6	Hood shutdown/Remote start safety override switch is ON*.
7	Remote start safety override switch is ON*.

* If the vehicle hood status is supported through data, safety override switch input will report 7 flashes.

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Remote Start Ready (RSR)

Remote Start Ready (RSR) is a function that enables the interface module to remote start the vehicle completely on its own. Consequently, there is no need for an aftermarket or an OEM remote starter in order to start the vehicle from a distance.

List of Available Commands

Note that the information below is for Viper, Clifford and Python models. Icons and commands may differ depending on the remote brand and model purchased. Refer to your authorized installation center for more information.

Button(s)	Actions
	Press & hold for 1 second to lock.
	Press & hold for 1 second to unlock.
	Press & hold for 1 second to remote start.
AUX	Press & hold for 5 seconds to activate the trunk release (optional).
ƒ x1 + AUX	Press ƒ once, then AUX to activate the rear hatch/tail glass release (optional).*
ƒ x3 + AUX	Press ƒ 3 times, then AUX to activate the panic mode.
ƒ x1 +	Press ƒ once, then to reset the remote starter runtime.

* This output is configurable. see your authorized installation center for more information.

SmartStart Compatible

This system is compatible with Directed SmartStart 3.0. For a complete list of supported features, please visit www.mysmartstart.com.

What is SmartStart?

Now you can remote start, lock and unlock your car just by pushing a button on your smartphone; using the SmartStart App from Directed, the leader in vehicle security and remote start. The simple graphical interface gives you control over the following features of your installed remote start or security with remote start system:

- Lock/Arm
- Unlock/Disarm
- Remote Car Starter
- Trunk Release
- Panic
- Aux Channels

You can also control multiple vehicles – great for families – and assign more than one user to control a vehicle. It's easy with SmartStart!

But, this is only the beginning! SmartStart is loaded with additional features including GPS tracking, SmartSchedule, vehicle status, roadside assistance, home control, parked car finder and more.

3.0 enables a "Cloud-Connected Car" like never before, providing an entirely new level of 2-way interaction with your vehicle. Connectivity is managed through the Directed Cloud Services (DCS) network linking car, app, end user, and the Internet.

For more information, visit www.mysmartstart.com.

3x OEM Lock Remote Start Activation

This solution includes the option to remote start your vehicle by pressing the Lock button 3 times consecutively. If your vehicle allows the OEM remote to remain active while the engine is running, you may shut down your remote starter by pressing the Lock button 3 times once more.

Note: The range offered by OEM remotes is limited and typically requires you to be within eyesight of the vehicle to control it.

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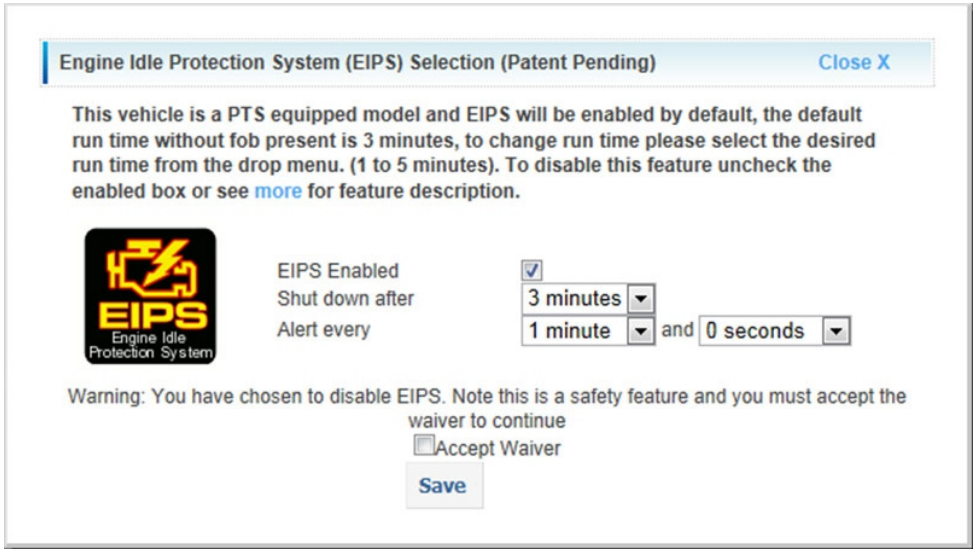
Engine Idle Protection System (EIPS)

Vehicles equipped with RFID-type Push-to-Start ignition systems work by detecting a proximity key in the vehicle. They will run indefinitely if the key is removed, which could potentially lead users to exiting the vehicle while the engine is still running and the car is left idling on its own in a garage or a confined space.

To mitigate risk, we have designed a feature that is now available on the DBALL. It will detect the presence of the RFID fob in the vehicle, through the CAN bus. If left idling for more than the pre-defined runtime (i.e. 1 to 5 minutes) without detecting the fob, DBALL will send a signal to the vehicle in order to shut off the engine.

EIPS (Engine Idle Protection System) will:

- Notify the user about the idling engine by sounding the horn with a series of short beeps.
- Shut down the engine after a pre-defined period of time (i.e. 1 to 5 minutes). EIPS is configured using XpressVIP. The following window is displayed whenever a DBALL module is flashed.



- If the engine fails to shut down due to some malfunction, EIPS will go into alarm mode and will notify the user by all means possible (e.g. horn or siren).

Activating/deactivating EIPS:

- To activate EIPS, remove all keys from the vehicle and close all doors while the engine is running.
- To deactivate EIPS, do one of the following actions:
  - Open one of the doors.
  - Remote start the vehicle.
  - Turn the engine off.
  - Drive the vehicle.*

* The EIPS feature is disabled if the vehicle is in motion so there is no risk that the vehicle will shut off while driving, regardless of the fob being present in the vehicle or not.

Notes

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