INSTALLATION GUIDE | DB3

2017 Audi Q7 (Smart Key). 403.VW08 1.16 RSR

DIRECTECHS
Designed by Installers for Installers

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Contents

Warning! Safety first

⚠️ The following safety warnings must be observed at all times:
- Due to the complexity of this system, installation of this product must only be performed by an authorized Directed dealer.
- When properly installed, this system can start the vehicle via a command signal from the remote control. Therefore, never operate the system in an area that does not have adequate ventilation.

The following precautions are the sole responsibility of the user; however, authorized Directed dealers should:
- Never use a test light or logic probe when installing this unit. Always use a multimeter.
- Never operate the system in an enclosed or partially enclosed area without ventilation (such as a garage).
- When parking in an enclosed or partially enclosed area or when having the vehicle serviced, the remote start system must be disabled using the installed toggle switch. It is the user's sole responsibility to properly handle and keep out of reach from children all remote controls to assure that the system does not unintentionally remote start the vehicle.
- USER MUST INSTALL A CARBON MONOXIDE DETECTOR IN OR ABOUT THE LIVING AREA ADJACENT TO THE VEHICLE. ALL DOORS LEADING FROM ADJACENT LIVING AREAS TO THE ENCLOSED OR PARTIALLY ENCLOSED VEHICLE STORAGE AREA MUST REMAIN CLOSED AT ALL TIMES.

Use of this product in a manner contrary to its intended mode of operation may result in property damage, personal injury, or death. Except when performing the Safety Check outlined in this installation guide, (1) Never remotely start the vehicle with the vehicle in gear, and (2) Never remotely start the vehicle with the keys in the ignition. The user is responsible for having the neutral safety feature of the vehicle periodically checked, wherein the vehicle must not remotely start while the car is in gear. This testing should be performed by an authorized Directed dealer in accordance with the Safety Check outlined in this product installation guide. If the vehicle starts in gear, cease remote start operation immediately and consult with the user to fix the problem immediately.

OPERATION OF THE REMOTE START MODULE IF THE VEHICLE STARTS IN GEAR IS CONTRARY TO ITS INTENDED MODE OF OPERATION. OPERATING THE REMOTE START SYSTEM UNDER THESE CONDITIONS MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY. IMMEDIATELY CEASE THE USE OF THE UNIT AND REPAIR OR DISCONNECT THE INSTALLED REMOTE START MODULE. DIRECTED WILL NOT BE HELD RESPONSIBLE OR PAY FOR INSTALLATION OR REINSTALLATION COSTS.

Remote starters for manual transmission pose significant risks if not properly installed and operated. When testing to ensure the installation is working properly, only remote start the vehicle in neutral gear, on a flat surface and with a functional, fully engaged parking brake. Do not allow anyone to stand in front of or behind the vehicle.

This product should not be installed in any convertible vehicles, soft or hard top with a manual transmission. Installation in such vehicles may pose certain risk.

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Introduction

DB3 is an all-in-one door lock and override module. This guide supports the installation of a DB3 in Remote Start Ready (RSR) mode. This solution offers three (3) configuration options to control your system: 3x OEM Lock Remote Start Activation, RF System or SmartStart (all sold separately).

⚠️ **Warning!**

This module can only be flashed and configured using DirectLink at www.directechs.com or using the Directechs Mobile application for smartphones. Refer to "Connecting the module" for more information.

Vehicle function compatibilities

Compatible functions ➤ This section lists all the functions compatible with this vehicle for the installation illustrated in this guide.

- ⊘ Parking Lights Control
- ⊘ Arm Factory Security
- ⊘ Disarm Factory Security
- ⊘ Door Lock Control
- ⊘ Door Unlock
- ⊘ Driver Priority Unlock
- ⊘ Trunk / Hatch Release
- ⊘ Control of aftermarket alarm with OEM remote
- ⊘ 3x LOCK START (Start control using OEM Remote)
- ⊘ 3x LOCK STOP (Stop control using OEM Remote)

- ⊘ RAP Shut Down (Retained ACC Power)
- ⊘ Remote Start Ready
- ⊘ SmartStart
- ⊘ Tach / RPM Output
- ⊘ Entry Monitoring ALL Door Pins
- ⊘ Entry Monitoring Hood Pin
- ⊘ Entry Monitoring Trunk/Hatch Pin
- ⊘ Brake Status (foot brake)
- ⊘ Door Locks Status
- ⊘ E-Brake Status
- ⊘ Ignition Status

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Pre-installation and application warnings

Firmware notes: 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.

T-Harness compatible	No ☒		Keys required for programming	1	Keys required for operation	1

- **Important!** 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.
- This firmware does not support transponder override. One (1) programmed OEM key must be wired into the vehicle to complete installation of a remote starter.
- No takeover feature is available. The vehicle will shut down as soon as a door is opened.
- To remote start the engine, the hood, the hatch, and all doors must be closed.
- Refer to "Vehicle connections" following the wiring diagram.

General notes: This section highlights important information for this specific firmware.

[1] For Key Wrap instructions, refer to "Immobilizer interface with OEM immobilizer receiver".
[2] The correct brake activation wire will test as 0.6V with the ignition ON, and 12V with the brake pedal depressed while the ignition is ON. Failure to identify the correct wire may cause permanent damage to the remote starter.
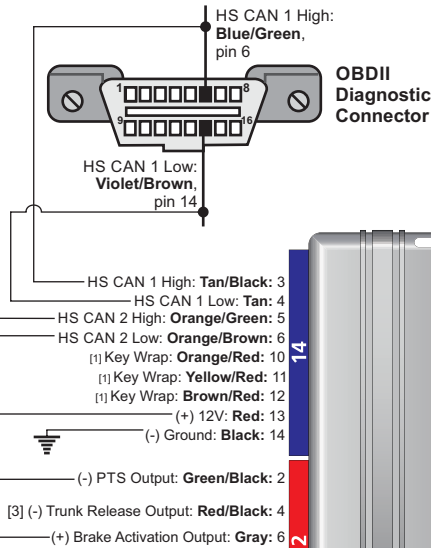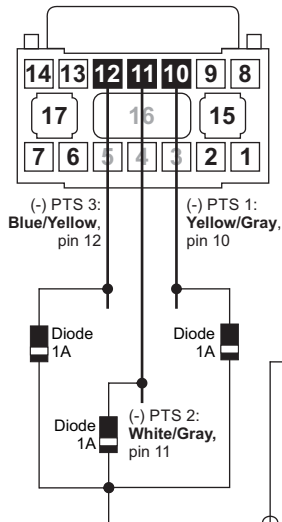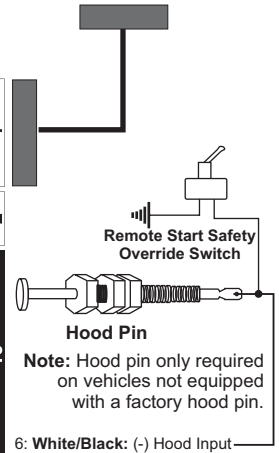[3] Direct connection for trunk release when it is not available through data.

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Wiring diagram

Junction Connector Driver Kick panel
(blue 17-pin bottom connector)

14	13	12	11	10	9	8
17			16			15
7	6	5	4	3	2	1

(-) PTS 3: **Blue/Yellow**, pin 12
(-) PTS 1: **Yellow/Gray**, pin 10

Diode 1A
Diode 1A

Diode 1A
(-) PTS 2: **White/Gray**, pin 11

HS CAN 1 High: **Blue/Green**, pin 6
OBDII Diagnostic Connector
HS CAN 1 Low: **Violet/Brown**, pin 14

HS CAN 1 High: **Tan/Black**: 3
HS CAN 1 Low: **Tan**: 4
HS CAN 2 High: **Orange/Green**: 5
HS CAN 2 Low: **Orange/Brown**: 6
[1] Key Wrap: **Orange/Red**: 10
[1] Key Wrap: **Yellow/Red**: 11
[1] Key Wrap: **Brown/Red**: 12
(+) 12V: **Red**: 13
(-) Ground: **Black**: 14

(-) PTS Output: **Green/Black**: 2
[3] (-) Trunk Release Output: **Red/Black**: 4
(+) Brake Activation Output: **Gray**: 6

Connect to Brake wire
Refer to the Vehicle Wiring Reference chart on next page for more information.
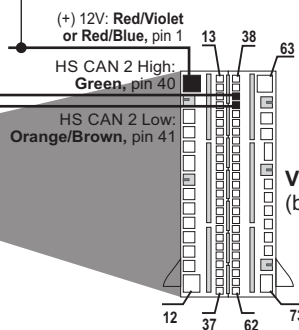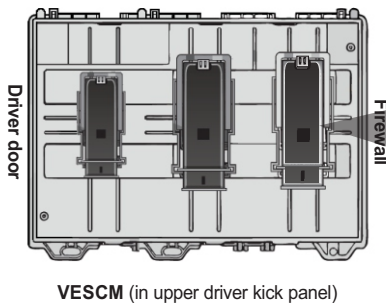
DB³
DIRECTED
14
2
12
10

⚠️ You can connect to either a XL202 RFTD **OR** a SmartStart module.
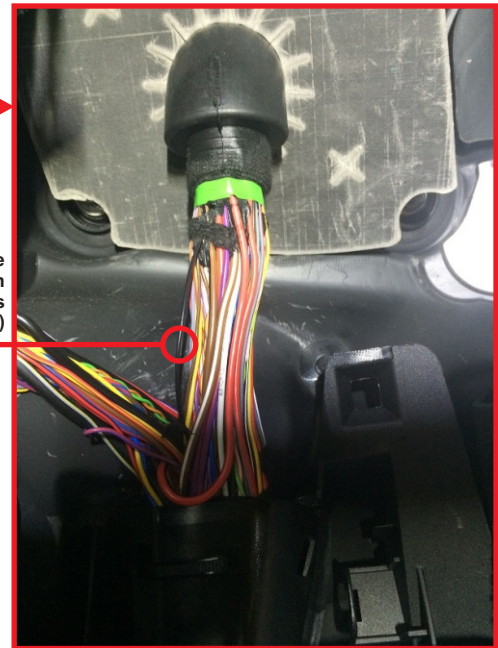Refer to the **SmartStart/XL202 Installation Notes** for more information.

Remote Start Safety Override Switch

Hood Pin
Note: Hood pin only required on vehicles not equipped with a factory hood pin.

6: **White/Black:** (-) Hood Input

(+) 12V: **Red/Violet or Red/Blue**, pin 1
HS CAN 2 High: **Green**, pin 40
HS CAN 2 Low: **Orange/Brown**, pin 41

13 38 63

12 37 62 73

VESCM Right Connector
(black &white 73-pin conn.)

Driver door
Firewall

VESCM (in upper driver kick panel)

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Locating components in the vehicle

Main harness in Firewall

**(+) Brake
(Black wire in
main harness
on firewall)**

VESCM in Driver kick panel

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Locating components in the vehicle

Main harness in Firewall

**(+) Brake
(Black/Red wire
in main harness
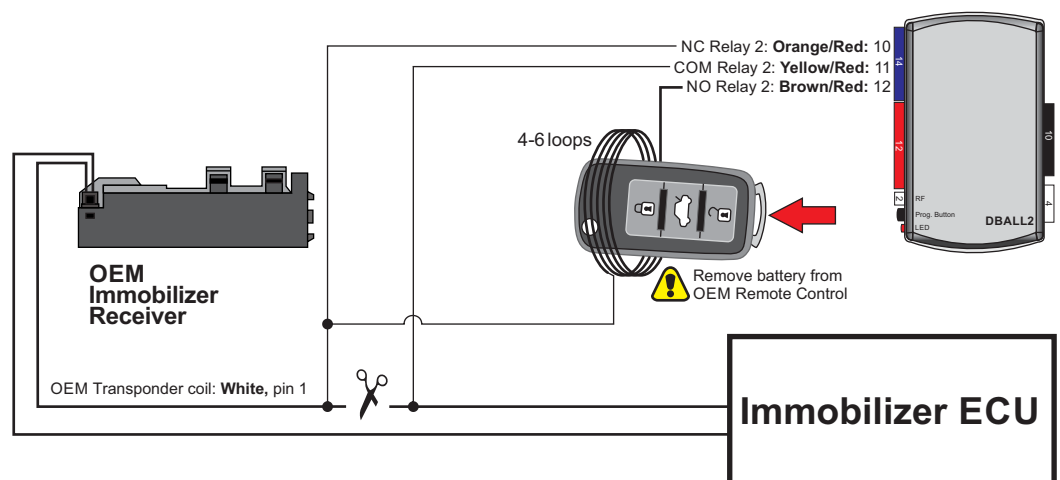on firewall)**

VESCM in Driver kick panel

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Immobilizer interface with OEM immobilizer receiver

Method 1: Key wrap for Push-To-Start (PTS)

COM Relay 2: **Yellow/Red:** 11
NO Relay 2: **Brown/Red:** 12

DBALL2

OEM Immobilizer Receiver

4-6 loops

4-6 loops

* **4-6 loops**

Remove battery from OEM Remote Control

NOTE:
- Make 4-6 loops and place them as close to the front of the OEM Immobilizer Receiver as possible.
- Make 4-6 loops and place them around the front of the plastic body of the vehicle's coded key as shown above.
- Test and secure mounted loops before reassembling the vehicle.

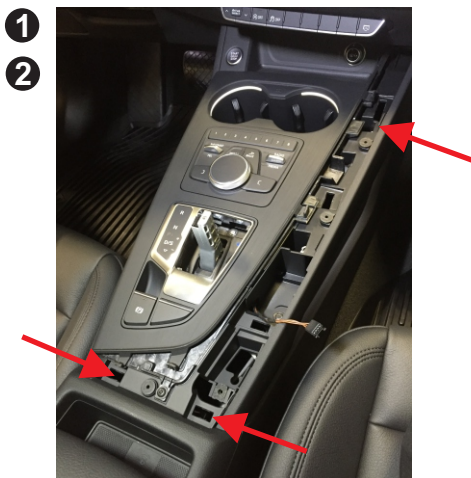***** When possible use valet key for key wrap: battery must be removed.

Method 2: Key wrap for Push-To-Start (PTS)

NC Relay 2: **Orange/Red:** 10
COM Relay 2: **Yellow/Red:** 11
NO Relay 2: **Brown/Red:** 12

DBALL2

4-6 loops

Remove battery from OEM Remote Control

OEM Immobilizer Receiver

OEM Transponder coil: **White,** pin 1

Immobilizer ECU

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OEM Immobilizer - Removing the center console in Audi A4

A4 Receiver located in center console near the arm rest.

Step 1: Remove Shifter knob.

Step 2: Remove right side trim.

Step 3: Remove left side trim.

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4

Step 4: Move the side trim while paying close attention to the connectors that are still connected.

5

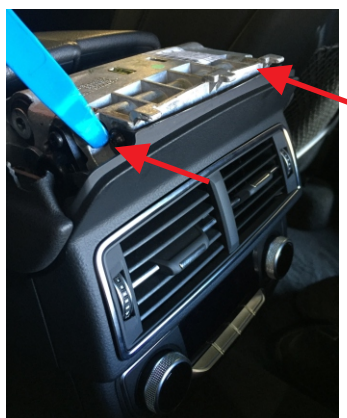**Step 5:** Remove black 2 pin connector from Immobilizer receiver.

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OEM Immobilizer - Removing the center console in Audi Q7

❶

Step 1: Gently pry and lift rear plate of center console.

❷

Step 2: Remove Torx screws on both ends.

❸

Step 3: Pull out rear trim of center console.

❹

Step 4: Remove Black 6 pin connector.
Use **White** wire pin 1 for OEM Transponder coil.

Vehicle connections

The connection information listed below is specific to the 2017 Audi Q7 (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	Ref.
H1/1	Light Green	No Connection	No Connection			
H1/2	Violet/Yellow	No Connection	No Connection			
H1/3	Tan/Black	(DATA) HS CAN High	OBD-Data Link Connector, black 16 pin plug, pin 6	Data	Blue/Green	
H1/4	Tan	(DATA) HS CAN Low	OBD-Data Link Connector, black 16 pin plug, pin 14	Data	Violet/Brown	
H1/5	Orange/Green	(DATA) HS CAN High	VESCM above driver kick, right black/white 73 pin plug, pin 40	Data	Green	
H1/6	Orange/Brown	(DATA) HS CAN Low	VESCM above driver kick, right black/white 73 pin plug, pin 41	Data	Orange/Brown	
H1/7	Brown	Relay N.O. No Connection	No Connection			
H1/8	Yellow	Relay COM No Connection	No Connection			
H1/9	Orange/Yellow	Relay N.C. No Connection	No Connection			
H1/10	Orange/Red	Relay N.C. Key Wrap				
H1/11	Yellow/Red	Relay COM Key Wrap				
H1/12	Brown/Red	Relay N.O. Key Wrap				
H1/13	Red	(+) 12 Volt	VESCM above driver kick, right black/white 73 pin plug, pin 1	+	Red/Gray (35A)	
H1/14	Black	(-) Ground	Not Applicable			

Output 12-pin red connector (H2)

Module			Connects To			
Conn./Pin	Color	Description	Wire Location	(+/-)	Wire Color	Ref.
H2/1	Black/White	No Connection	No Connection			
H2/2	Green/Black	(-) PTS	Driver Kick, blue 17 pin plug, pin 10 Driver Kick, blue 17 pin plug, pin 11 Driver Kick, blue 17 pin plug, pin 12	- - -	Yellow/Gray White/Gray Blue/Yellow	
H2/3	Green/White	No Connection	No Connection			
H2/4	Red/Black	(-) Trunk Output	Driver Door Module, blue 32 pin plug, pin 23; Comfort System Module in left rear quarter panel, blue 32 pin plug, pin 30	-	Red/Green (door switch); Brown/Yellow (rear handle switch)	
H2/5	Violet/White	No Connection	No Connection			
H2/6	Gray	(+) Brake Output	Driver Firewall, harness to engine compartment	+	Black/Red	
H2/7	Gray/Black	No Connection	No Connection			
H2/8	Violet/Green	No Connection	No Connection			
H2/9	Violet/Brown	No Connection	No Connection			
H2/10	Yellow/Black	No Connection	No Connection			
H2/11	Orange/Black	No Connection	No Connection			

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Module				Connects To				
Conn./Pin	Color	Description		Wire Location		(+/-)	Wire Color	Ref.
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	Ref.
H3/1	Green	No Connection		No Connection				
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*						
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	
H4/2	Black	
H4/3	Blue	
H4/4	Red	

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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SmartStart/XL202 installation notes

The DB3 Remote Start Ready (RSR) solution offers three (3) configuration options to control your system: 3x OEM Lock Remote Start Activation, RF Kit or SmartStart (both sold separately). This section provides specific installation information for SmartStart and XL202.

SmartStart revision A

SmartStart is **optional** and not included. It MUST be purchased separately.

⚠ The modules must be connected in a specific order. Refer to "Module programming" for more information.

SmartStart revision B

SmartStart is **optional** and not included. It MUST be purchased separately.

⚠ 1. Use the D2D Crossover (XOVER) cable that is provided with XL202, and NOT the one in the DB3 package.
2. The modules must be connected in a specific order. Refer to "Module programming" for more information.

RF System

The **optional** XL202 and antenna are not included and MUST be purchased separately.

⚠ The modules must be connected in a specific order. Refer to "Module programming" for more information.

RF System & PKE combination

Refer to the Passive Keyless Entry (PKE) Installation Guide (N2102T) for detailed wiring information.

RF System, PKE & SmartStart BT combination

Refer to the Passive Keyless Entry (PKE) Installation Guide (N2102T) for detailed wiring information.

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Connecting the module

⚠️ Important!

Make all the required connections to the vehicle, as described in this guide, and double check to ensure everything is correct prior to moving onto programming.

Note: Before connecting either the XL202 or SmartStart module to DB3, it is important to ensure that the proper feature and function programming is selected using DirectLink (version 4.5 or higher). Visit www.directechs.com to download the latest version of the application.

Warning! To take advantage of advanced features, you must use DirectLink 4.5 (and higher) or the Directechs Mobile application.

Flashing a module using your computer:
1. **Connect** the interface module to your computer using the **XKLoader2**.
2. **Go** to www.directechs.com using Internet Explorer, and **select** the Flash Module button.
3. **Follow** the instructions to **select** your vehicle, installation type, and configure your options.
4. Once you have configured the firmware options, **click** on the FLASH button.

Flashing a module using your smartphone or tablet:
1. **Connect** the interface module to your **XKLoader3**.
2. **Launch** the Directechs Mobile app on your smartphone or tablet.
3. **Select** FLASH YOUR MODULE and **follow** the on screen instructions.

When the flashing operation is successful, you can proceed with the instructions below.

SmartStart installation

⚠️ The DB3 module **must** be disconnected from any power source before SmartStart can be connected to it. Failing to do so could damage DB3.
1. To ensure that the D2D communication between SmartStart and DB3 works properly, **connect** the Gray wire to a ground source (Rev B SmartStart), and **cut** the Brown or Blue loop (Rev A SmartStart).
2. Do **NOT** connect the 2-pin harness (on SmartStart). Power and ground will be provided by the DB3 D2D connector.
3. **Connect** SmartStart to DB3 using the D2D port.
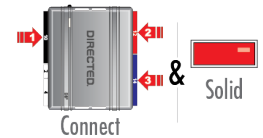
OR

XL202 installation

Connect XL202 to DB3 using the D2D port.

Module programming

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

1   **Connect** the 10-pin, 12-pin and 14-pin harnesses to DB3, then **wait** until the LED turns ON solid red.

Connect   &   Solid

2   **Important!** Do NOT depress the brake pedal.
Press the Push-to-Start (PTS) button <u>once</u> to turn the ignition ON. The LED starts flashing orange.

Do NOT depress the brake pedal   &   PUSH x1   &   Flashes

3   The LED turns ON solid green for 3 seconds, then shuts OFF.

Solid x3 Secs   &   Off

4   Press the PTS button <u>once</u> more to turn the ignition OFF.

PUSH x1

You have successfully completed the module programming sequence.

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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 (such as RFTD and D2D options) may have to be reconfigured. Refer to "Feature and option list".

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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Feature programming

To enter feature programming routine:
1. **Turn** the ignition ON, then OFF.
2. Within 5 seconds, **press** and **hold** the programming button until the LED turns ON orange (after 3 seconds).
3. **Release** the Programming button.
4. The LED will flash green once slowly to indicate the feature number is 1. After a short delay, the LED flashes red rapidly to indicate the current option of feature 1 (e.g. 1 x green followed by 1 x red indicates feature 1 is set to option 1). The flashing sequence will repeat until a new command is entered.

Changing feature options:
1. **Press** the lock/arm or unlock/disarm button on aftermarket transmitter to change the option of the selected feature. When installing the DB3 in RSR using 3x OEM Lock Remote Start Activation only, there is no aftermarket transmitter on which to press lock/unlock to change the options of the selected feature. Tapping the green or blue lock/unlock wires on the black 10-pin harness to ground will change the option for the selected feature.
2. The LED flashes red rapidly the number of times equal to the current option number. After a short delay, the LED flashes green slowly the number of times to indicate the current feature. The flashing sequence will repeat until a new command is entered.

Accessing another feature:
1. **Press** and **release** the programming button a number of times to advance from the current feature to the next desired feature.
2. The LED flashes green slowly the number of times equal to the feature number. After a short delay, the LED flashes red rapidly to indicate the current option of the current feature. The flashing sequence will repeat until a new command is entered.

When the maximum number of features or options is reached, the LED will start flashing again from the first feature or option.

Exiting feature programming:
To exit feature programming, **press** and **hold** the programming button for 3 seconds or ensure there is no activity on the interface for 30 seconds. The LED will turn ON orange for 2 seconds to confirm the end of the programming sequence.

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Feature and option list

It is recommended to configure all the features and options listed below using the configuration tool found on the module flashing page at www.directechs.com. The web offers more options; however, manual configuration of the features is possible using the information on this page.

* Default option

Feat.	Operation	Flashes / Option	Description
1	RFTD Output Type	**1. No RF Output***	Module is connected to a remote starter using a standard installation.
		2. RFTD Output	Module is connected to an XL202 using an RSR or RXT installation (when available).
		3. SmartStart	Module is connected to SmartStart using an RSR or RXT installation (when available).
2	Unlock Driver Priority	**1. Driver priority***	Unlocks only the driver door when the button is first pressed, and unlocks all doors when it is pressed a second time within 5 seconds.
		2. All	Unlocks all doors when the button is first pressed.
3			

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Limited one year consumer warranty

For a period of ONE YEAR from the date of purchase of a Directed Electronics remote start or security product, Directed Electronics. ("DIRECTED") promises to the original purchaser, to repair or replace with a comparable reconditioned piece, the security or remote start accessory piece (hereinafter the "Part"), which proves to be defective in workmanship or material under normal use, provided the following conditions are met: the Part was purchased from an authorized DIRECTED dealer; and the Part is returned to DIRECTED, postage prepaid, along with a clear, legible copy of the receipt or bill of sale bearing the following information: consumer's name, address, telephone number, the authorized licensed dealer's name and complete product and Part description.

This warranty is nontransferable and is automatically void if the Part has been modified or used in a manner contrary to its intended purpose or the Part has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defect in materials or construction.

TO THE MAXIMUM EXTENT ALLOWED BY LAW, EXCEPT AS STATED ABOVE, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NONINFRINGEMENT OF INTELLECTUAL PROPERTY, ARE EXPRESSLY EXCLUDED; AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY DUTY, OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS. DIRECTED HEREBY DISCLAIMS AND HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING DEALERS OR INSTALLERS. DIRECTED IS NOT OFFERING A GUARANTEE OR INSURANCE AGAINST VANDALISM, DAMAGE, OR THEFT OF THE AUTOMOBILE, ITS PARTS OR CONTENTS, AND DIRECTED HEREBY DISCLAIMS ANY LIABILITY WHATSOEVER, INCLUDING WITHOUT LIMITATION, LIABILITY FOR THEFT, DAMAGE, OR VANDALISM. IN THE EVENT OF A CLAIM OR A DISPUTE INVOLVING DIRECTED OR ITS SUBSIDIARY, THE PROPER VENUE SHALL BE SAN DIEGO COUNTY IN THE STATE OF CALIFORNIA. CALIFORNIA STATE LAWS AND APPLICABLE FEDERAL LAWS SHALL APPLY AND GOVERN THE DISPUTE. THE MAXIMUM RECOVERY UNDER ANY CLAIM AGAINST DIRECTED SHALL BE STRICTLY LIMITED TO THE AUTHORIZED DIRECTED DEALER'S PURCHASE PRICE OF THE PART. DIRECTED SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGES FOR THE LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE. NOTWITHSTANDING THE ABOVE, THE MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR AT DIRECTED'S OPTION THE PART AS DESCRIBED ABOVE.

This warranty only covers Parts sold within the United States of America and Canada. Parts sold outside of the United States of America or Canada are sold "AS-IS" and shall have NO WARRANTY, express or implied. Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights and you may also have other rights that vary from State to State. DIRECTED does not and has not authorized any person or entity to create for it any other obligation, promise, duty or obligation in connection with this Part. For further details relating to warranty information of Directed products, please visit the support section of DIRECTED's website at: www.directed.com

920-10012-01 2013-07

This Interface kit / Data Bus Interface part has been tested on the listed vehicles. Other vehicles will be added to the select vehicle list upon completion of compatibility testing. Visit website for latest vehicle application guide. DISCLAIMER: Under no circumstances shall the manufacturer or the distributors of the bypass kit / data bus interface part(s) be held liable for any consequential damages sustained in connection with the part(s) installation. The manufacturer and it's distributors will not, nor will they authorize any representative or any other individual to assume obligation or liability in relation to the interface kit / data bus interface part(s) other than its replacement. N.B.: Under no circumstances shall the manufacturer and distributors of this product be liable for consequential damages sustained in connection with this product and neither assumes nor authorizes any representative or other person to assume for it any obligation or liability other than the replacement of this product only.

Protected by U.S. Patents: 5,719,551; 6,011,460 B1 *; 6,243,004 B1; 6,249,216 B1; 6,275,147 B1; 6,297,731 B1; 6,346,876 B1; 6,392,534 B1; 6,529,124 B2; 6,696,927 B2; 6,756,885 B1; 6,756,886 B2; 6,771,167 B1; 6,812,829 B1; 6,924,750 B1; 7,010,402 B1; 7,015,830 B1; 7,031,826 B1; 7,046,126 B1; 7,061,137 B1; 7,068,153 B1; 7,205,679 B1; Cdn. Patent: 2,320,248; 2,414,991; 2,415,011; 2,415,023; 2,415,027; 2,415,038; 2,415,041; 2,420,947; 2,426,670; 2,454,089; European Patent: 1,053,128; Pat. Pending: 2,291,306. Made in Canada.

Quick Reference Guide

Vehicle Takeover & Pit Stop mode

Note: There is no vehicle takeover & pit stop mode in this firmware. The vehicle will shut down as soon as a door is opened.

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.

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.

Parking Light Error Codes
The turn signal 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 or no RPM.
4	Shut down without remote.
5	Brake shutdown.
6	Hood shutdown*.
7	Remote start safety override switch is ON*.

*If your installation requires an aftermarket hood pin, 6 flashes can also mean **Remote Start Safety Override Switch ON**.

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.

Quick Reference Guide

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.

Notes

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