




**Update Alert:** Firmware updates are posted on the web on a regular basis. We recommend that you check for firmware and/or install guide updates prior to installing this product.

## Installation Guide

The NISS3HT firmware for DBALL2 is an all-in-one door lock and override module compatible with specific Infiniti, and Nissan vehicles. This guide supports the installation of a DBALL2 in Remote Start Ready (RSR) mode with or without a Plug & Play THNISS3/THNISS3D T-Harness (optional). This solution offers three (3) configuration options to control your system: 3x OEM Lock Remote Start Activation, RF System or SmartStart (all sold separately).



 This module can only be flashed and configured using XpressVIP at [www.directechs.com](http://www.directechs.com) or using the Directechs Mobile application for smartphones. Refer to the Module Programming section on page 11 for more information.



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.



### Important!

This product is **NOT** compatible with vehicles equipped with a manual transmission.



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## 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 the **Module Programming** section for more information.

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## Vehicle Application Guide

The following table lists the vehicles and features which are compatible with this product. The number assigned to each year allows you to determine which installation type should be used for your vehicle.

Vehicles	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	PK-Immobilizer Bypass-Data No Key Req'd	AV-Parking Lights Control	DL-Trunk / Hatch Release	FOB-Control of aftermarket alarm with OEM remote	RS-3x LOCK START (Start control using OEM Remote)	RS-3x LOCK STOP (Stop control using OEM Remote)	RS-RAP Shut Down (Retained ACC Power)	RS-Remote Start Ready	RS-SmartStart	RS-Tach / RPM Output	SS-Entry Monitoring ALL Door Pins	SS-Entry Monitoring Hood Pin	SS-Entry Monitoring Trunk/Hatch Pin	ST-Brake Status (foot brake)	ST-Door Locks Status
<b>Infiniti</b>																											
EX35 (Smart Key)						1	1	1	1	1			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
EX37 (Smart Key)					1	1	1	1	1				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
FX35 (Smart Key)						1	1	1	1				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
FX50 (Smart Key)					1	1	1	1	1				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
G25 (Smart Key)						1	1						•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
G35 (Smart Key)										1	1		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
G37 (Smart Key)					1	1	1	1	1	1			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
M35 (Smart Key) <sup>[1]</sup>								2	2	2	2	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Q60 (Smart Key)			1	1									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
QX50 (Smart Key)	1	1	1	1									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
QX70 (Smart Key)	1	1	1	1									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<b>Nissan</b>																											
370Z (Smart Key)		1	1	1	1	1	1	1	1				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Altima (Smart Key)						1	1	1	1				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Altima (Smart Key)										1	1		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Altima Coupe (Smart Key)					1								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
GT-R (Smart Key)					1	1	1	1	1				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Maxima (Smart Key)				1	1	1	1	1	1				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Murano (Smart Key)				1	1	1	1	1	1				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

**Legend:**

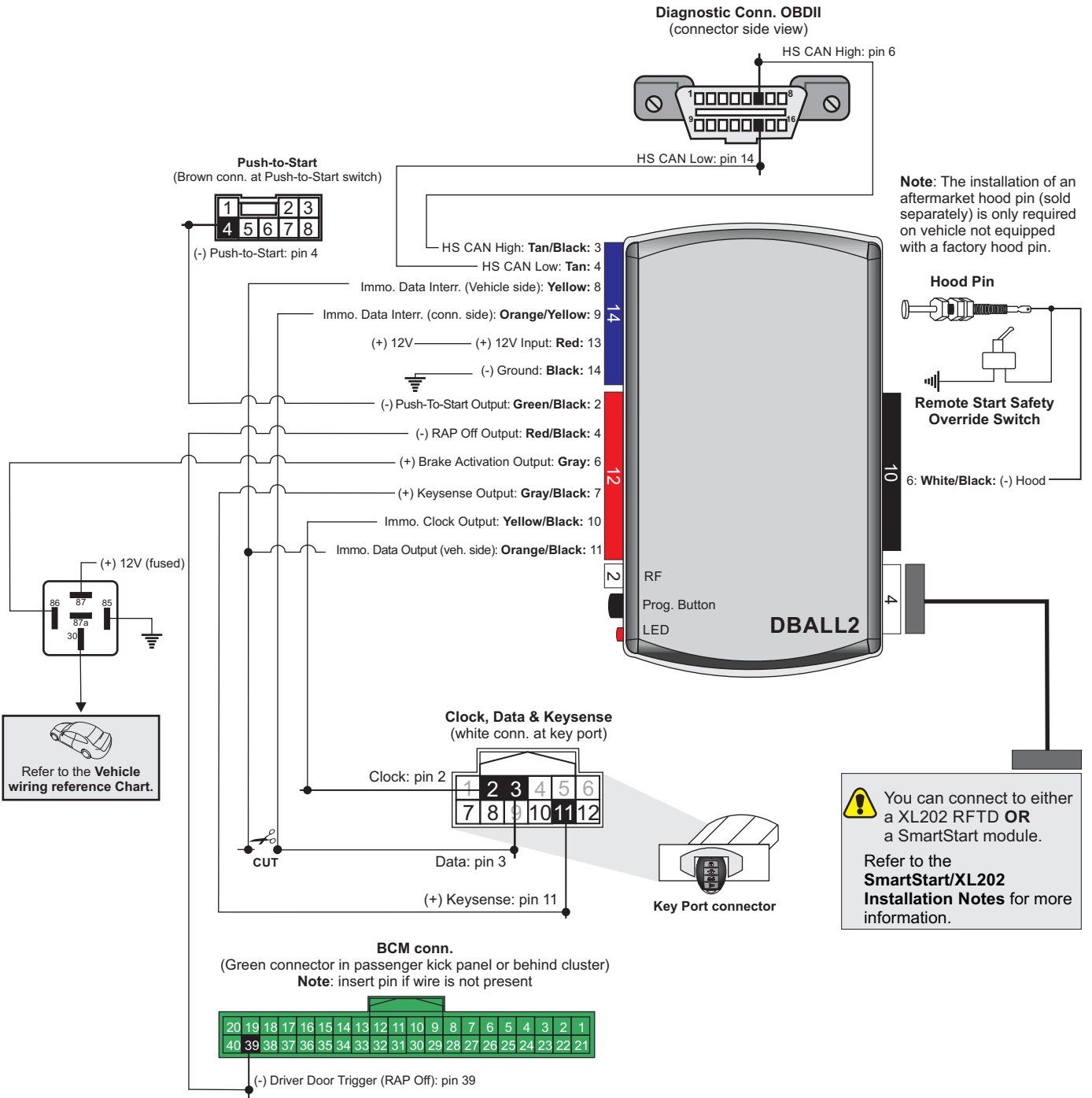
- AV: Horn & Lights Controls
- DL: OE Door Lock & Alarm Controls
- FOB: Sync CAN Interface w/ FOB Remote
- PK: Transponder & Immobilizer Override
- RS: Remote Start & Engine Controls
- SS: Integrated Security & Monitoring
- ST: Function/Feature Status

[1] Special programming required (see Module Programming section). It is also NOT COMPATIBLE with the optional T-harness THNISS3/THNISS3D.



## Type 1 Wiring Diagram without T-Harness

**Important!** The Hood Pin and Remote Start Safety Override Switch are mandatory safety devices, but are NOT supplied with the DBALL.



**Warning!** With the exception of the OBDII Diagnostic connector, all adapters are displayed from the wire side (unless specified otherwise).

## Type 1 - Vehicle Wiring Reference Chart

Wire Information				Connector Information		
Function	Color	Pin	Polarity	Location	Color	Pins
<b>Infiniti EX35 (Smart Key) 2008-2012</b>						
Push-To-Start	Brown	4	(-)	PTS Connector.	Brown	8
Keysense	Brown	11	(+)	Key Port Connector.	White	12
Clock	Gray	2	Data	Key Port Connector.	White	12
Data	White	3	Data	Key Port Connector.	White	12
Driver Door Trigger	Lt. Green	39	(-)	BCM in passenger kick panel.	Green	40
Brake	White	2 or 4	(+)	Brake Switch.	White	4
HS CAN High	Blue	6	Data	Diagnostic Conn (OBDII).	White	16
HS CAN Low	Pink	14	Data	Diagnostic Conn (OBDII).	White	16
<b>Infiniti EX37 (Smart Key) 2009-2013</b>						
Push-To-Start	Brown	4	(-)	PTS Connector.	Brown	8
Keysense	Brown	11	(+)	Key Port Connector.	White	12
Clock	Gray	2	Data	Key Port Connector.	White	12
Data	White	3	Data	Key Port Connector.	White	12
Driver Door Trigger	Lt. Green	39	(-)	BCM in passenger kick panel.	Green	40
Brake	White	2 or 4	(+)	Brake Switch.	White	4
HS CAN High	Blue	6	Data	Diagnostic Conn (OBDII).	White	16
HS CAN Low	Pink	14	Data	Diagnostic Conn (OBDII).	White	16
<b>Infiniti FX35 (Smart Key) 2009-2012</b>						
Push-To-Start	Lt. Blue	4	(-)	PTS Connector.	Brown	8
Keysense	Brown	11	(+)	Key Port Connector.	White	12
Clock	Gray	2	Data	Key Port Connector.	White	12
Data	White	3	Data	Key Port Connector.	White	12
Driver Door Trigger	Gray	39	(-)	BCM in passenger kick panel.	Green	40
Brake	White	2 or 4	(+)	Brake Switch.	White	4
HS CAN High	Blue	6	Data	Diagnostic Conn (OBDII).	White	16
HS CAN Low	Pink	14	Data	Diagnostic Conn (OBDII).	White	16
<b>Infiniti FX50 (Smart Key) 2009-2013</b>						
Push-To-Start	Lt. Blue	4	(-)	PTS Connector.	Brown	8
Keysense	Brown	11	(+)	Key Port Connector.	White	12
Clock	Gray	2	Data	Key Port Connector.	White	12
Data	White	3	Data	Key Port Connector.	White	12
Driver Door Trigger	Gray	39	(-)	BCM in passenger kick panel.	Green	40
Brake	White	2 or 4	(+)	Brake Switch.	White	4
HS CAN High	Blue	6	Data	Diagnostic Conn (OBDII).	White	16
HS CAN Low	Pink	14	Data	Diagnostic Conn (OBDII).	White	16
<b>Infiniti G25 (Smart Key) 2011-2012</b>						
Push-To-Start	Brown	4	(-)	PTS Connector.	Brown	8
Keysense	Lt. Blue	11	(+)	Key Port Connector.	White	12
Clock	Gray	2	Data	Key Port Connector.	White	12
Data	White	3	Data	Key Port Connector.	White	12
Driver Door Trigger	Gray	39	(-)	BCM in passenger kick panel.	Green	40
Brake	White	2	(+)	Brake Switch.	White	4
HS CAN High	Blue	6	Data	Diagnostic Conn (OBDII).	White	16
HS CAN Low	Pink	14	Data	Diagnostic Conn (OBDII).	White	16
<b>Infiniti G35 (Smart Key) 2007-2008</b>						
Push-To-Start	Brown	4	(-)	PTS Connector.	Brown	8
Keysense	Lt. Blue	11	(+)	Key Port Connector.	White	12
Clock	Gray	2	Data	Key Port Connector.	White	12
Data	White	3	Data	Key Port Connector.	White	12
Driver Door Trigger	Gray or Red	39	(-)	BCM in passenger kick panel.	Green	40
Brake	White	2	(+)	Brake Switch.	White	4
HS CAN High	Blue	6	Data	Diagnostic Conn (OBDII).	White	16
HS CAN Low	Pink	14	Data	Diagnostic Conn (OBDII).	White	16

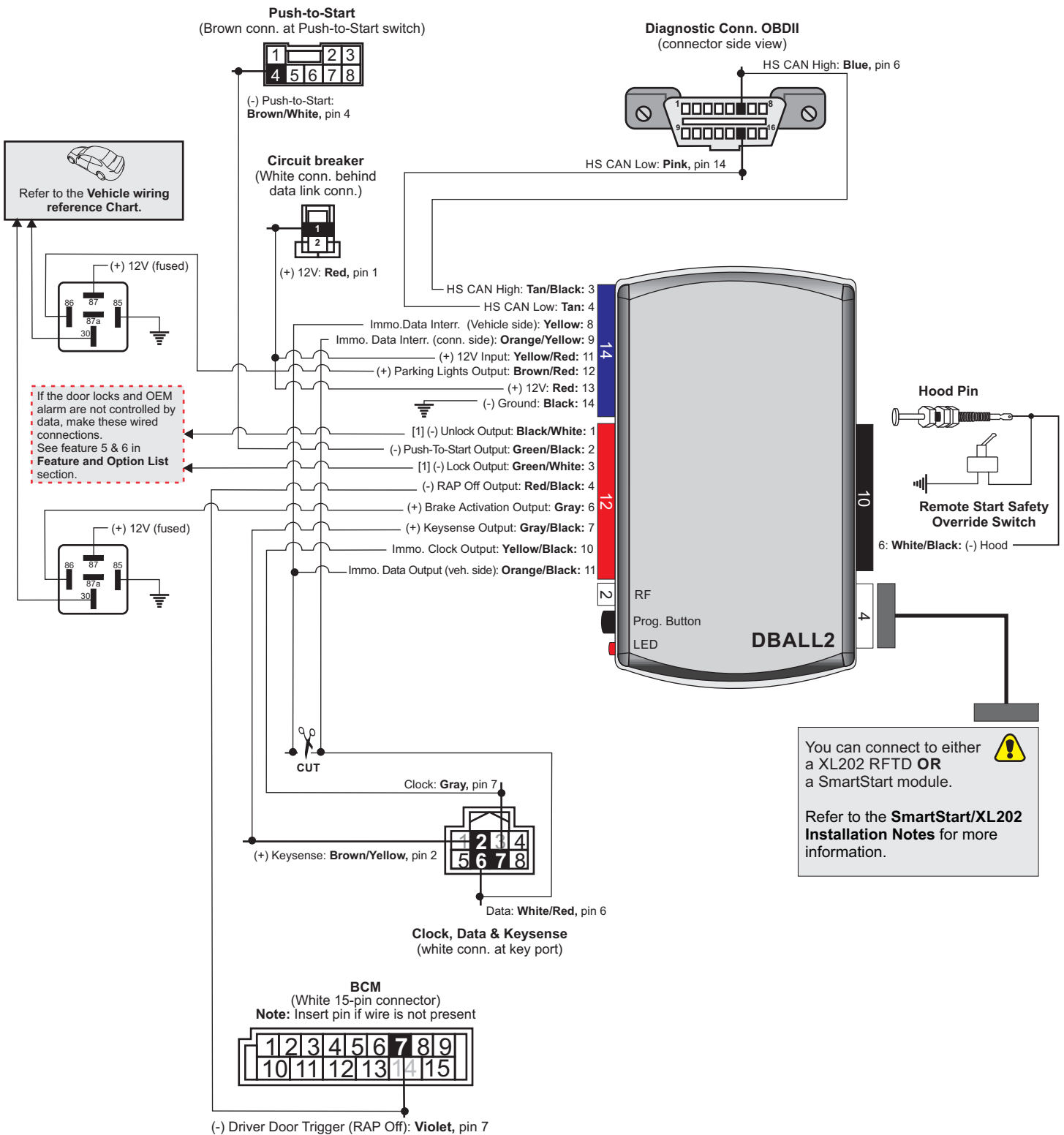
## Type 1 - Vehicle Wiring Reference Chart

Wire Information				Connector Information		
Function	Color	Pin	Polarity	Location	Color	Pins
<b>Infiniti G37 (Smart Key) 2008-2013</b>						
Push-To-Start	Brown	4	(-)	PTS Connector.	Brown	8
Keysense	Lt. Blue	11	(+)	Key Port Connector.	White	12
Clock	Gray	2	Data	Key Port Connector.	White	12
Data	White	3	Data	Key Port Connector.	White	12
Driver Door Trigger	Gray or Red	39	(-)	BCM in passenger kick panel.	Green	40
Brake	White	2 or 4	(+)	Brake Switch.	White	4
HS CAN High	Blue	6	Data	Diagnostic Conn (OBDII).	White	16
HS CAN Low	Pink	14	Data	Diagnostic Conn (OBDII).	White	16
<b>Infiniti Q60 (Smart Key) 2014-2015</b>						
Push-To-Start	Brown	4	(-)	PTS Connector.	Brown	8
Keysense	Lt. Blue	11	(+)	Key Port Connector.	White	12
Clock	Gray	2	Data	Key Port Connector.	White	12
Data	White	3	Data	Key Port Connector.	White	12
Driver Door Trigger	Gray or Red	39	(-)	BCM in passenger kick panel.	Green	40
Brake	Violet	2	(+)	Brake Switch.	White	4
HS CAN High	Blue	6	Data	Diagnostic Conn (OBDII).	White	16
HS CAN Low	Pink	14	Data	Diagnostic Conn (OBDII).	White	16
<b>Infiniti QX50 (Smart Key) 2014-2017</b>						
Push-To-Start	Brown	4	(-)	PTS Connector.	Brown	8
Keysense	Brown	11	(+)	Key Port Connector.	White	12
Clock	Gray	2	Data	Key Port Connector.	White	12
Data	White	3	Data	Key Port Connector.	White	12
Driver Door Trigger	Lt. Green	39	(-)	BCM in passenger kick panel.	Green	40
Brake	White	2 or 4	(+)	Brake Switch.	White	4
HS CAN High	Blue	6	Data	Diagnostic Conn (OBDII).	White	16
HS CAN Low	Pink	14	Data	Diagnostic Conn (OBDII).	White	16
<b>Infiniti QX70 (Smart Key) 2014-2017</b>						
Push-To-Start	Lt. Blue	4	(-)	PTS Connector.	Brown	8
Keysense	Brown	11	(+)	Key Port Connector.	White	12
Clock	Gray	2	Data	Key Port Connector.	White	12
Data	White	3	Data	Key Port Connector.	White	12
Driver Door Trigger	Gray	39	(-)	BCM in passenger kick panel.	Green	40
Brake	White	2 or 4	(+)	Brake Switch.	White	4
HS CAN High	Blue	6	Data	Diagnostic Conn (OBDII).	White	16
HS CAN Low	Pink	14	Data	Diagnostic Conn (OBDII).	White	16
<b>Nissan 370Z (Smart Key) 2009-2016</b>						
Push-To-Start	Brown	4	(-)	PTS Connector.	Brown	8
Keysense	Red or Lt. Blue	11	(+)	Key Port Connector.	White	12
Clock	Gray	2	Data	Key Port Connector.	White	12
Data	White	3	Data	Key Port Connector.	White	12
Driver Door Trigger	Gray or Red	39	(-)	BCM in passenger kick panel.	Green	40
Brake	White	2	(+)	Brake Switch.	White	4
HS CAN High	Blue	6	Data	Diagnostic Conn (OBDII).	White	16
HS CAN Low	Pink	14	Data	Diagnostic Conn (OBDII).	White	16
<b>Nissan Altima (Smart Key) 2009-2012, Nissan Altima Coupe (Smart Key) 2013</b>						
Push-To-Start	Brown	4	(-)	PTS Connector.	Brown	8
Keysense	Yellow	11	(+)	Key Port Connector.	White	12
Clock	Green/Orange	2	Data	Key Port Connector.	White	12
Data	Orange	3	Data	Key Port Connector.	White	12
Driver Door Trigger	Lt. Blue	39	(-)	BCM behind instrument cluster.	Green	40
Brake	Lt. Green or Red/Green	2	(+)	Brake Switch.	White	4
HS CAN High	Blue	6	Data	Diagnostic Conn (OBDII).	White	16
HS CAN Low	Pink	14	Data	Diagnostic Conn (OBDII).	White	16

## Type 1 - Vehicle Wiring Reference Chart

Wire Information				Connector Information		
Function	Color	Pin	Polarity	Location	Color	Pins
<b>Nissan Altima (Smart Key) 2007-2008</b>						
Push-To-Start	Brown	4	(-)	PTS Connector.	Brown	8
Keysense	Yellow	11	(+)	Key Port Connector.	White	12
Clock	Green/Orange	2	Data	Key Port Connector.	White	12
Data	Orange	3	Data	Key Port Connector.	White	12
Driver Door Trigger	Lt. Blue	39	(-)	BCM behind instrument cluster.	Green	40
Brake	Lt. Green or Red/Green	2	(+)	Brake Switch.	White	4
HS CAN High	Blue	6	Data	Diagnostic Conn (OBDII).	White	16
HS CAN Low	Pink	14	Data	Diagnostic Conn (OBDII).	White	16
<b>Nissan Altima (Smart Key) 2009-2012, Nissan Altima Coupe (Smart Key) 2013</b>						
Push-To-Start	Brown	4	(-)	PTS Connector.	Brown	8
Keysense	Yellow	11	(+)	Key Port Connector.	White	12
Clock	Green/Orange	2	Data	Key Port Connector.	White	12
Data	Orange	3	Data	Key Port Connector.	White	12
Brake	Orange/Blue or Lt. Green	2	(+)	Brake Switch	White	4
Driver Door Trigger	Lt. Blue	39	(-)	BCM behind instrument cluster.	Green	40
HS CAN High	Blue	6	Data	Diagnostic Conn (OBDII).	White	16
HS CAN Low	Pink	14	Data	Diagnostic Conn (OBDII).	White	16
<b>Nissan GT-R (Smart Key) 2009-2013</b>						
Push-To-Start	Brown	4	(-)	PTS Connector.	Brown	8
Keysense	Red	11	(+)	Key Port Connector.	White	12
Clock	Gray	2	Data	Key Port Connector.	White	12
Data	Blue	3	Data	Key Port Connector.	White	12
Driver Door Trigger	Gray	39	(-)	BCM passenger kick panel.	Green	40
Brake	White	2	(+)	Brake Switch.	White	4
HS CAN High	Blue	6	Data	Diagnostic Conn (OBDII).	White	16
HS CAN Low	Pink	14	Data	Diagnostic Conn (OBDII).	White	16
<b>Nissan Maxima (Smart Key) 2009-2014</b>						
Push-To-Start	Brown	4	(-)	PTS Connector.	Brown	8
Keysense	Yellow	11	(+)	Key Port Connector.	White	12
Clock	Green/Orange	2	Data	Key Port Connector.	White	12
Data	Orange	3	Data	Key Port Connector.	White	12
Driver Door Trigger	Lt. Blue	39	(-)	BCM behind instrument cluster.	Green	40
Brake	Lt. Green	4	(+)	Brake Switch.	White	4
HS CAN High	Blue	6	Data	Diagnostic Conn (OBDII).	White	16
HS CAN Low	Pink	14	Data	Diagnostic Conn (OBDII).	White	16
<b>Nissan Murano (Smart Key) 2009-2014</b>						
Push-To-Start	Brown	4	(-)	PTS Connector.	Brown	8
Keysense	Yellow	11	(+)	Key Port Connector.	White	12
Clock	Lt. Blue	2	Data	Key Port Connector.	White	12
Data	Orange	3	Data	Key Port Connector.	White	12
Driver Door Trigger	Lt. Blue	39	(-)	BCM behind instrument cluster.	Green	40
Brake	Lt. Green	2 or 4	(+)	Brake Switch.	White	4
HS CAN High	Blue	6	Data	Diagnostic Conn (OBDII).	White	16
HS CAN Low	Pink	14	Data	Diagnostic Conn (OBDII)	White	16

## Type 2 Wiring Diagram without T-Harness



[1] These wires are optional connections and are only required if features 'OEM Security Disarm on Data' & 'Door Lock Control On Data' are disabled. See Feature & Option List section.



## Type 2 - Vehicle Wiring Reference Chart

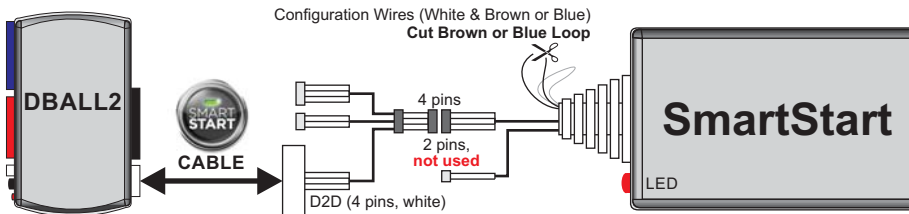
Wire Information				Connector Information		
Function	Color	Pin	Polarity	Location	Color	Pins
<b>Infiniti M35 (Smart Key) 2006-2010</b>						
Push-To-Start	Brown/White	4	(-)	PTS Connector.	Brown	8
Keysense	Brown/Yellow	2	(+)	Key Port Connector.	White	8
Clock	Gray	7	Data	Key Port Connector.	White	8
Data	White/Red	6	Data	Key Port Connector.	White	8
Brake	Pink/Blue	2	(+)	Brake Switch.	White	4
Driver Door Trigger	Violet	7	(-)	BCM behind glove box.	White	15
Lock	(Empty pin)	5	(-)	BCM behind glove box.	White	15
Unlock	(Empty pin)	6	(-)	BCM behind glove box.	White	15
Parking Lights	Red/Blue	1	(+)	Dimmer Switch.	White	3
HS CAN High	Blue	6	Data	Diagnostic Conn (OBDII)	Black	16
HS CAN Low	Pink	14	Data	Diagnostic Conn (OBDII)	Black	16
12V	Red	1	(+)	Circuit breaker behind Diagnostic Conn.	White	2

## SmartStart/XL202 Installation Notes

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

### SmartStart Revision A

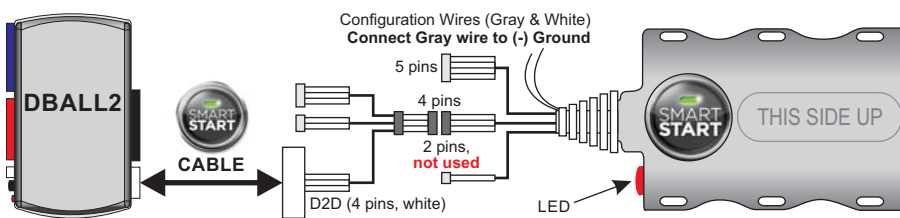
SmartStart is **optional** and not included. It **MUST** be purchased separately.



**!** The modules must be connected in a specific order. Refer to the **Module Programming** section for more information.

### SmartStart Revision B

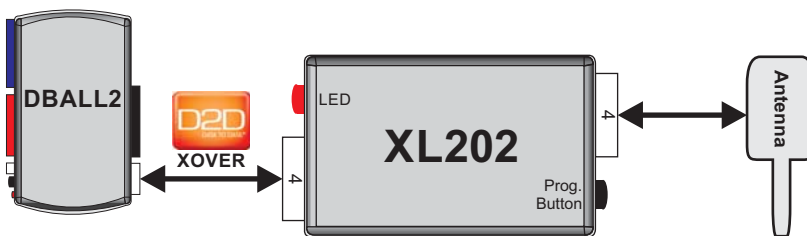
SmartStart is **optional** and not included. It **MUST** be purchased separately.



**!** The modules must be connected in a specific order. Refer to the **Module Programming** section for more information.

### RF Kit

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



- !** 1. Use the D2D Crossover (XOVER) cable that is provided with XL202, and **NOT** the one in the DBALL package.
- !** 2. The modules must be connected in a specific order. Refer to the **Module Programming** section for more information.

### RF Kit & PKE Combination

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

### RF Kit, PKE & SmartStart BT Combination

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

## Module Programming

 Refer to the LED Diagnostics section on page 15 for more information and for troubleshooting purposes.

### Important

Make all the required connections to the vehicle, as described in the wiring diagram(s) found in this guide, and double check to ensure everything is correct prior to moving onto the next step.

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

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

#### Flashing a module using your computer:


1. Connect the interface module to your computer using the XKLoader2.
2. Go to [www.directechs.com](http://www.directechs.com) using Internet Explorer, and select the **Config for RSR** 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

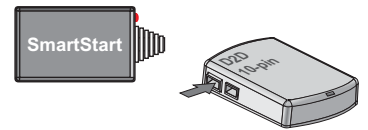
1. Connect the interface module to your XKLoader3.
2. Launch the Directechs Mobile app on your smartphone or tablet.
3. Select **FLASH YOUR MODULE** and follow the on screen instructions.

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

#### SmartStart Installation

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

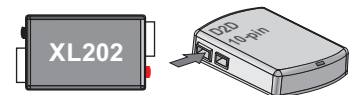
Connect SmartStart to DBALL using the D2D port.



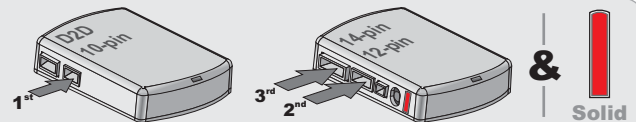
**OR**

#### XL202 Installation

Connect XL202 to DBALL using the D2D port.



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



-  Ensure that every key fob except one is located at a minimum of 10 feet (3 meters) away from the vehicle **BEFORE** proceeding with the following programming sequence. (for Infiniti M35 skip to next page)



- 2** Press the Unlock button on the OEM key fob. The LED flashes orange.



- 3** Insert the OEM key fob into the key port. The LED will continue to flash orange.



Go to the next page to complete the module programming. 

You have successfully completed the module programming sequence.

## Module Programming

4

Press and hold the brake pedal until LED flashes green 3 seconds then goes off.

The module is now programmed.

Press  
brake pedal



&



### Troubleshooting:

If the LED continues to flash orange after 15 seconds at step 4, press and hold the programming button until the LED flashes red. When you release the programming button, the LED starts flashing orange again. Repeat step 4.



5

Remove the OEM key fob from the key port.

Remove key fob  
from key port



You have successfully completed the module programming sequence.

## Module Programming: Infiniti M35

(step 1 is identical for all vehicles in this firmware - see previous page.)

2

Remove battery from OEM key fob.

Remove  
battery



3

Insert the OEM key fob into the key port.

Insert key fob  
into key port



4

**Important:** Do NOT press the brake pedal. Cycle ignition ON and OFF **two** times.



Do NOT  
press the  
brake pedal



PUSH X2

&



PUSH X1

) X2

5

LED flashes green 3 seconds then goes off. The module is now programmed.



&

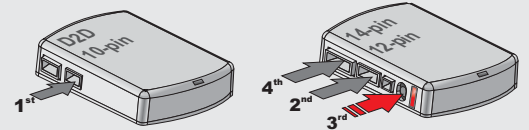


You have successfully completed the module programming sequence.

## Module Reset

A module reset will only erase programming performed in the previous steps. All settings (firmware) and settings flashed to the module using the web config tool will not be affected.

- 1 If required for your installation, 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.

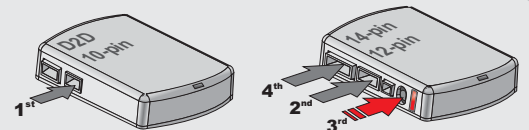


## Hard Reset

### Warning Against Executing a Hard Reset!

A hard reset will revert the flashed firmware back to its default settings. Depending on the installation, some settings (such as RFTD and D2D options) may have to be reconfigured. See the **Feature & Option List** section of this guide.

- 1 If required for your installation, 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.



## Feature & Option List

It is recommended to configure all the features and options listed below using the configuration tool found on the module flashing page on [www.directechs.com](http://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	Automatic Controlled Door Lock	1. Disabled*	The vehicle doors will not lock automatically.
		2. Ignition	The vehicle doors will lock when ignition is turned ON and unlock when ignition is OFF.
		3. Brake	The vehicle doors will lock when the brake pedal is applied and unlock when ignition is OFF.
		4. Speed	The vehicle doors will lock when speed is sensed and unlock when ignition is OFF.
3	Smart OEM Alarm Control	1. Disabled	The OEM alarm will not be controlled by the interface upon remote start. No disarm or arm command will be executed at the beginning or end of the sequence; it must be controlled by the Remote Starter.
		2. Safelock	Smart OEM Alarm Control will behave like a standard Safelock feature on a remote starter. It will unlock at the beginning of the sequence, and relock after start and shutdown.
		3. Enabled*	Smart OEM Alarm Control will synchronize with the OEM alarm so that it will disarm and rearm the vehicle in the remote start sequence, only when required. Smart OEM Alarm Control will monitor the alarm and door lock status to detect if the disarm or rearm is required. If the vehicle is unlocked or is not equipped with factory alarm, the disarm/rearm will not be executed.
4	Parking Light Control On	1. Disabled	The remote starter parking lights wire must be connected in the vehicle.
		2. Enabled*	The parking lights will be controlled by CAN wires.
5	OEM Security Disarm On Data	1. Disabled	The vehicle is not equipped with an OEM alarm.
		2. Enabled*	This feature must be enabled when the vehicle is equipped with an OEM security alarm. The alarm original to the vehicle is disarmed using the bypass and Push-to-Start (PTS) button.
6	Door Lock Control On Data	1. Disabled	The remote starter door lock wires must be connected in the vehicle.
		2. Enabled - Type1 (EU)	Works for most European vehicles.
		3. Enabled - Type2 (US)*	Works for most North American vehicles. (We've noticed that some North American vehicles need to be set to "Type 1 (EU)" to work properly.)

## Feature Programming

Programming Button



### To enter feature programming routine

- Turn the ignition ON, then OFF.
- **Within 5 seconds**, press and HOLD the programming button until the LED turns ON orange (after 3 seconds). Release the Programming button.
- 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 (i.e. 1x green followed by 1x red indicates feature 1 is set to option 1). The flashing sequence will repeat until a new command is entered.

### Changing feature options

- Press the lock/arm or unlock/disarm button on aftermarket transmitter to change the option of the selected feature.
- 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

- Press and release the programming button a number of times to advance from the current feature to the next desired feature.
- 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.**


















### Once a feature is programmed




















- Other features can be programmed.
- The feature programming can be exited.

### Exiting feature programming

- No activity for 30 seconds; after 30 seconds, the LED will turn ON orange for 2 seconds to confirm the end of the programming sequence.  
OR
- Press and HOLD the programming button for 3 seconds. After 3 seconds, the LED will turn ON orange for 2 seconds to confirm the end of the programming sequence.

## LED Diagnostics & Troubleshooting

LED	Description	Troubleshooting
<b>Module Programming</b>		
 Off	Module has no power.	Make sure the D2D harness is connected or that the 12 Volt is present between the red and black wires. If the 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 red & green	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 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.
<b>Module Programming - Error Codes</b>		
 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)" 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.

LED	Description	Troubleshooting
<b>External module synchronization</b>		
 (Flashes red, red then orange) x 10	OBDDII feature is not supported.	The diagnostic data bus was not detected, therefore the SmartStart features will be limited.
<b>Activation Ground When Running (Status)</b>		
 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.
<b>Commands</b>		
 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.	
 Flashes orange x 3	TRUNK command received.	
 Flashes orange x 4	AUX1 command received.	
 Flashes orange x 5	AUX2 command received.	
 Flashes orange x 6	AUX3 command received.	
<b>Shutdown codes</b>		
 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.
<b>RSR codes</b>		
 Flashes red x 7	3x OEM Lock Remote Start Activation was attempted when RFTD feature is disabled.	Activated from Web automatically when using RSR flash tool or can be done manually. Refer to feature programming section for more information.
 Flashes red x 9	Feature error.	An RSR feature file mismatch was detected. Please contact Technical Support.



## 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, it will also report a 7 flash safety override code.

## 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](http://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 its 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.

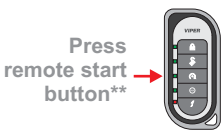
Protected by U.S. Patents: 5,719,551; 6,011,460 B1 \*; 6,243,004 B1; 6,249,216 B1; 6,275,147 B1; 6,297,731 B1; 6,346,876 B1; 6,392,534 B1; 6,529,124 B2; 6,696,927 B2; 6,756,885 B1; 6,756,886 B2; 6,771,167 B1; 6,812,829 B1; 6,924,750 B1; 7,010,402 B1; 7,015,830 B1; 7,031,826 B1; 7,046,126 B1; 7,061,137 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

## DBALL2-NISS3HT Remote Start Ready (RSR) Installation

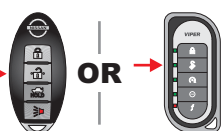
### Vehicle Takeover with Get In and Go

- 1** Close the vehicle doors, hood and trunk, then press the Remote Start button on the transmitter to start the vehicle.\*\*




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




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

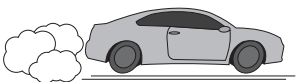
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- 3** Enter the vehicle, while making sure the factory remote is inside with you.




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- 4** Press the brake pedal, put the car in gear and drive off.



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

### Get In and Go

 Get In and Go is designed to provide users with easy takeover when entering their Push-to-Start (PTS) equipped vehicle, once it has been remote started.

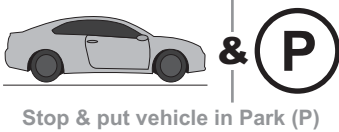
Typically, users would have to remote start their vehicle, then get inside and press the vehicle start button to perform a takeover. There is therefore a physical action required to drive away. With Get In and Go technology, you simply remote start the vehicle, unlock the doors, get in and go... Nothing to do but put the gear in drive and enjoy your vehicle.

This unique feature monitors a variety of parameters such as the key fob, vehicle speed sensor and door sensor, in order to perform takeover securely.

### 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.

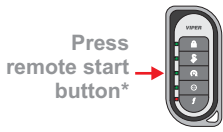
- 1** Stop the vehicle in a safe parking spot and put the gear in Park (P).



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- 2** Press the button to remote start the vehicle.\*

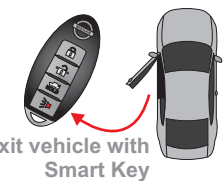
The parking lights will flash once to indicate the vehicle is now in Pit Stop Mode.



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- 3** It is now safe to leave the engine running and exit the vehicle with the Smart Key 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.

## Quick Reference Guide

### DBALL2-NISS3HT Remote Start Ready (RSR) Installation

## 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.

 The horn beep feature must be enabled for the 3x OEM Lock Remote Start Activation feature to work properly. To enable the horn beep feature: Press and hold the Lock and Unlock buttons from the OEM remote for at least 2 seconds.

## 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.
	Press & hold for 5 seconds to activate the trunk release (optional).
$f$ x1 + 	Press $f$ once, then  to activate the rear hatch/tail glass release (optional).*
$f$ x3 + 	Press $f$ 3 times, then  to activate the panic mode.
$f$ x1 + 	Press $f$ once, then  to reset the remote starter runtime.

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

# Quick Reference Guide

## DBALL2-NISS3HT Remote Start Ready (RSR) Installation

### SmartStart Compatible



This system is compatible with Directed SmartStart 3.0. For a complete list of supported features, please visit [www.mysmartstart.com](http://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](http://www.mysmartstart.com).

### Notes

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