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 HONDA56 firmware for DBALL2 is an all-in-one door lock and override module compatible with specific Acura and Honda vehicles.

This module can only be flashed and configured using XpressVIP at www.directechs.com or using the Directechs Mobile application for smartphones. Refer to the Module Programming section on pages 16 for more information.

No takeover feature is available on Push-to-Start vehicles.

Index

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	2016	2015	2014	2013	2012	2011	2010	2009	2008	PK-Immobilizer Bypass-Data No Key Req'd	DL-Arm Factory Security	DL-Disarm Factory Security	DL-Door Lock Control	DL-Door Unlock	DL-Driver Priority Unlock	DL-Sliding Door Control Driver	DL-Sliding Door Control Passenger	DL-Trunk / Hatch Release	FOB-Control of aftermarket alarm with OEM remote	RS-RAP Shut Down (Retained ACC Power)	RS-Tach / RPM Output	SS-Entry Monitoring ALL Door Pins	SS-Entry Monitoring Hood Pin	SS-Entry Monitoring Trunk/Hatch Pin	SS-Factory Alarm Trigger Monitoring	ST-Brake Status (foot brake)	ST-Door Locks Status	ST-E-Brake Status	ST-Ignition Status
Acura																													
ILX (Smart Key)		6	6	6						•	•	•	•	•	•			•	D	•	•	•	•	•	D	•	D	•	•
RDX (Smart Key)		6	6	6						•	•	•	•	•	•			•	D	•	•	•	•	•	D	•	D	•	•
TL				1	1	1	1	1		•	•	•	•	•	•			•	D	•	•	•	•	•	D	•	D	•	•
TL (Smart Key)				2	2	2	2	2		•	•	•	•	•	•			•	D	•	•	•	•	•	D	•	D	•	•
TSX				1	1	1	1	1		•	•	•	•	•	•			•	D	•	•	•	•	•	D	•	D	•	•
ZDX					1	1	1			•	•	•	•	•	•			•	D	•	•	•	•	•	D	•	D	•	•
ZDX (Smart Key)*				3	3	3	3			•	•	•	•	•	•			•	D	•	•	•	•	•	D	•	D	•	•
Honda																													
Accord					1	1	1	1	1	•	•	•	•	•	•			•	D	•	•	•	•	•	D	•	D	•	•
Accord Crosstour					1	1	1			•	•	•	•	•	•			•	D	•	•	•	•	•	D	•	D	•	•
Civic		4	4	4	4					•	•	•	•	•	•			•	D	•	•	•	•	•		•	D	•	•
CR-V	5	5	5	5	5					•	•	•	•	•	•			•	D	•	•	•	•	•		•	D	•	•
Odyssey	1	1	1	1	1	1				•	•	•	•	•	•	•	•	•	D	•	•	•	•	•	D	•	D	•	•
Pilot		1	1	1	1	1	1	1		•	•	•	•	•	•			•	D	•	•	•	•	•	D	•	D	•	•

Legend:

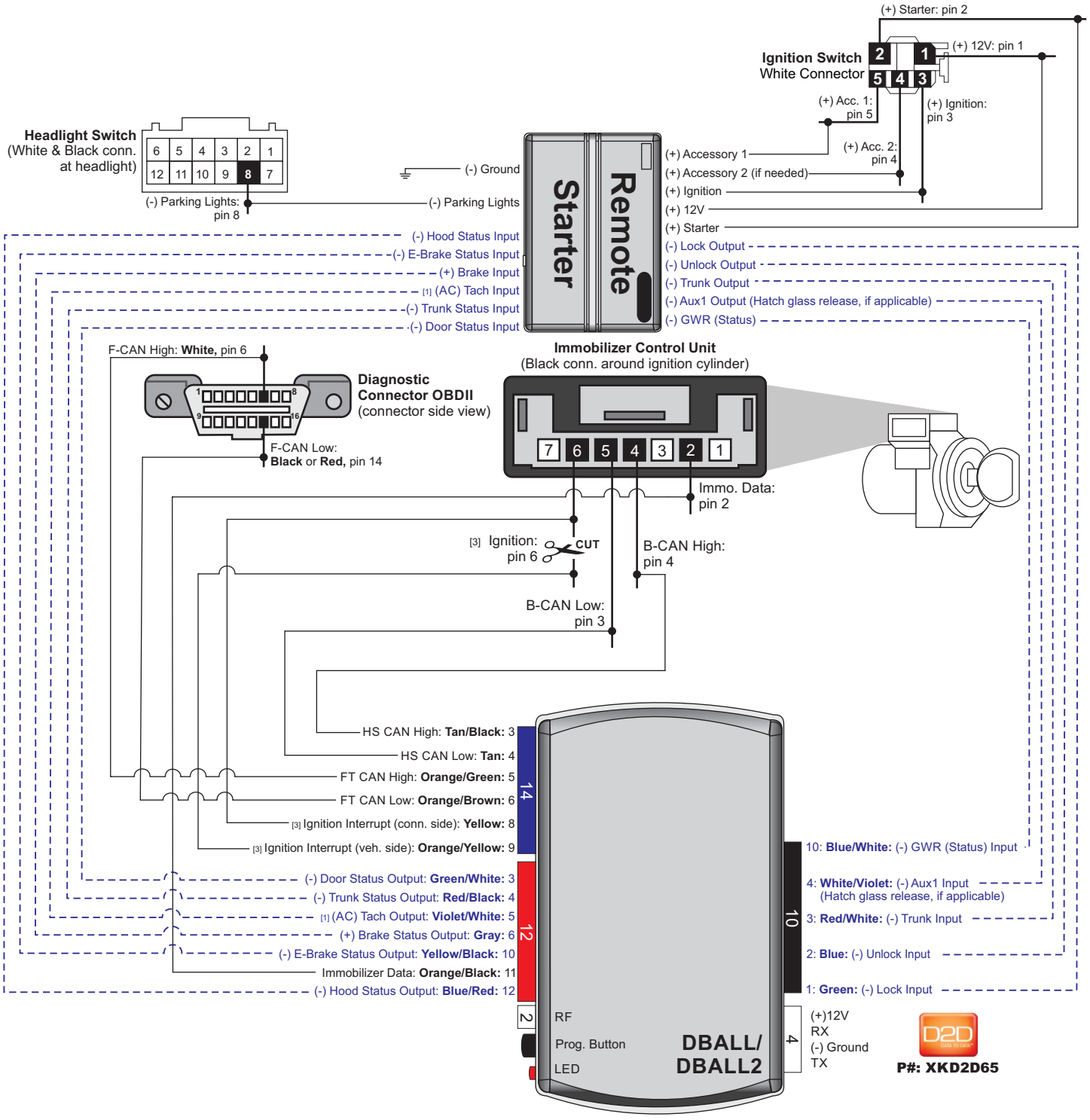
D: Data-to-Data (D2D) only

•: D2D and Wire-to-Wire (W2W)

AV: Horn & Lights Controls
CC: Comfort & Convenience 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

* OEM Remote Keyless Entry does not operate when vehicle is remote started.

Installation Type 1



Not required in D2D mode.

[1] Tach wire is an optional connection required on some remote starters, which do not support a tach signal in D2D.

[2] Connect the Rearm wire **only** if the vehicle is equipped with automatic headlights.

[3] Optional but required for OEM Remote Keyless Entry to operate when vehicle is remote started.

⚠ 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

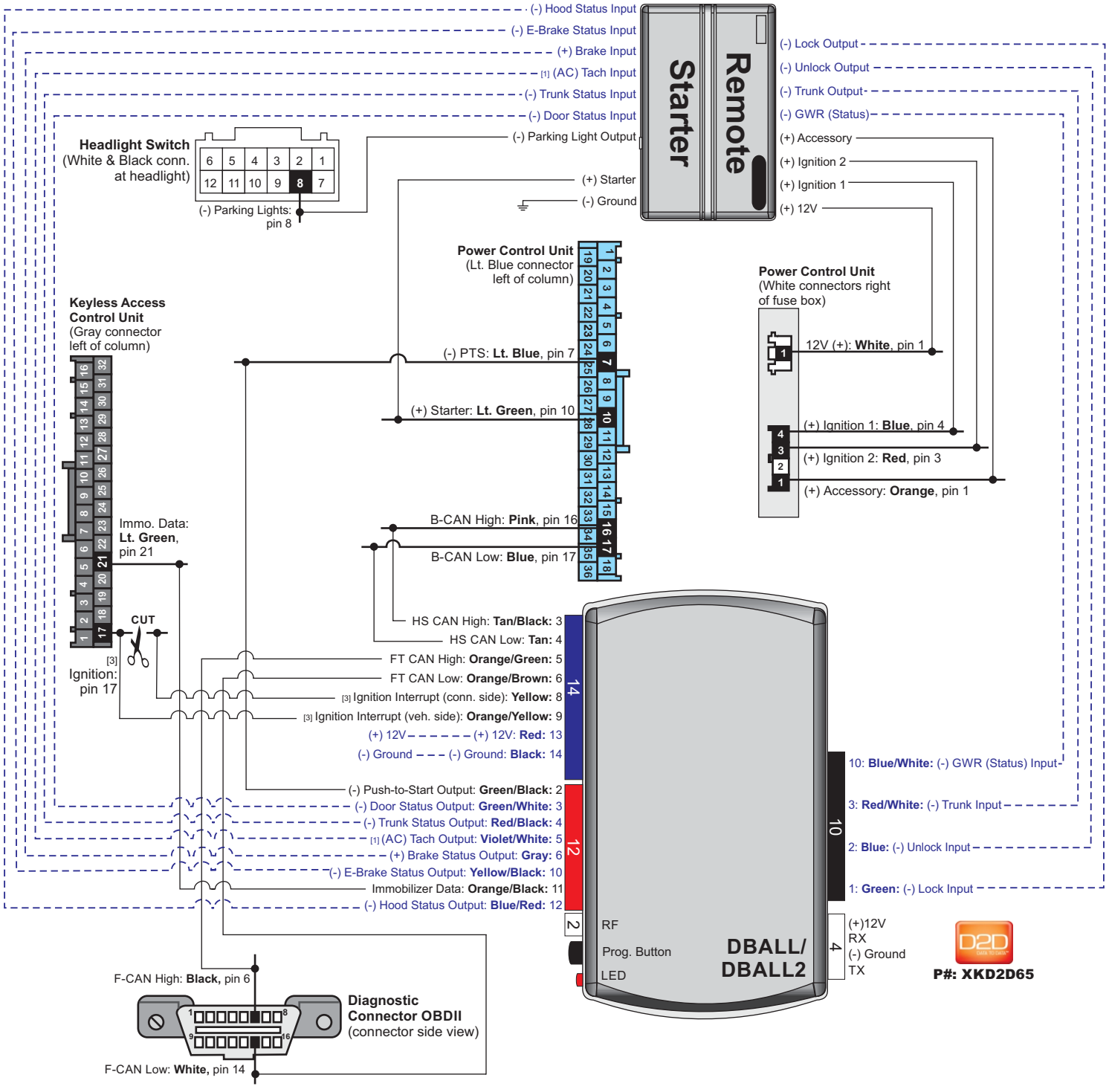
Wire Information				Connector Information		
Function	**Color**	**Pin**	**Polarity**	**Location**	**Color**	**Pins**
Acura TL 2009-2013						
12V	White	1	(+)	Ignition switch.	White	5
Starter	Yellow	2	(+)	Ignition switch.	White	5
Ignition	Blue	3	(+)	Ignition switch.	White	5
Accessory 1	Green	5	(+)	Ignition switch.	White	5
Accessory 2	Yellow	4	(+)	Ignition switch.	White	5
Immobilizer Data	Lt. Green	2	Data	Immobilizer control unit around ignition cylinder.	White	7
Ignition Interrupt	Yellow	6	(+)	Immobilizer control unit around ignition cylinder.	White	7
B-CAN High	Pink	4	Data	Immobilizer control unit around ignition cylinder.	White	7
B-CAN Low	Blue	5	Data	Immobilizer control unit around ignition cylinder.	White	7
Parking Lights	Gray	8	(-)	Headlight Switch.	Black & White	12
F-CAN High	White	6	Data	OBDII diagnostic connector.	Black	16
F-CAN Low	Red or Black	14	Data	OBDII diagnostic connector.	Black	16
Acura TSX 2009-2013						
12V	White	1	(+)	Ignition switch.	White	5
Starter	Yellow	2	(+)	Ignition switch.	White	5
Ignition	Blue	3	(+)	Ignition switch.	White	5
Accessory 1	Orange	5	(+)	Ignition switch.	White	5
Accessory 2	Red	4	(+)	Ignition switch.	White	5
Immobilizer Data	Lt. Green	2	Data	Immobilizer control unit around ignition cylinder.	Black	7
Ignition Interrupt	Yellow	6	(+)	Immobilizer control unit around ignition cylinder.	Black	7
B-CAN High	Pink	4	Data	Immobilizer control unit around ignition cylinder.	Black	7
B-CAN Low	Blue	5	Data	Immobilizer control unit around ignition cylinder.	Black	7
Parking Lights	Gray	8	(-)	Headlight switch.	Black & White	12
Autolights	Red	9	(-)	Headlight switch.	Black & White	12
F-CAN High	White	6	Data	OBDII diagnostic connector.	Black	16
F-CAN Low	Red or Black	14	Data	OBDII diagnostic connector.	Black	16
Acura ZDX 2010-2012						
12V	White	1	(+)	Ignition switch.	White	5
Starter	Yellow	2	(+)	Ignition switch.	White	5
Ignition	Blue	3	(+)	Ignition switch.	White	5
Accessory 1	Green	5	(+)	Ignition switch.	White	5
Accessory 2	Yellow	4	(+)	Ignition switch.	White	5
Immobilizer Data	Lt. Green	2	Data	Immobilizer control unit around ignition cylinder.	White	7
Ignition Interrupt	Yellow	6	(+)	Immobilizer control unit around ignition cylinder.	White	7
B-CAN High	Pink	4	Data	Immobilizer control unit around ignition cylinder.	White	7
B-CAN Low	Blue	5	Data	Immobilizer control unit around ignition cylinder.	White	7
Parking Lights	Gray	8	(-)	Headlight switch.	Black & White	12
F-CAN High	White	6	Data	OBDII diagnostic connector.	Black	16
F-CAN Low	Red or Black	14	Data	OBDII diagnostic connector.	Black	16
Honda Accord 2008-2012						
12V	White	1	(+)	Ignition switch.	White	5
Starter	Yellow	2	(+)	Ignition switch.	White	5
Ignition	Blue	3	(+)	Ignition switch.	White	5
Accessory 1	Orange	5	(+)	Ignition switch.	White	5
Accessory 2	Red	4	(+)	Ignition switch.	White	5
Immobilizer Data	Lt. Green	2	Data	Immobilizer control unit around ignition cylinder.	White	7
Ignition Interrupt	Yellow	6	(+)	Immobilizer control unit around ignition cylinder.	White	7
B-CAN High	Pink	4	Data	Immobilizer control unit around ignition cylinder.	White	7
B-CAN Low	Blue	5	Data	Immobilizer control unit around ignition cylinder.	White	7
Parking Lights	Gray	8	(-)	Headlight switch.	Black & White	12
F-CAN High	White	6	Data	OBDII diagnostic connector.	Black	16
F-CAN Low	Red or Black	14	Data	OBDII diagnostic connector.	Black	16

Type 1 - Vehicle Wiring Reference Chart

Wire Information				Connector Information		
Function	**Color**	**Pin**	**Polarity**	**Location**	**Color**	**Pins**
Honda Accord Crosstour 2010-2012						
12V	White	1	(+)	Ignition switch.	White	5
Starter	Yellow	2	(+)	Ignition switch.	White	5
Ignition	Blue	3	(+)	Ignition switch.	White	5
Accessory 1	Orange	5	(+)	Ignition switch.	White	5
Accessory 2	Red	4	(+)	Ignition switch.	White	5
Immobilizer Data	Lt. Green	2	Data	Immobilizer control unit around ignition cylinder.	Black	7
Ignition Interrupt	Yellow	6	(+)	Immobilizer control unit around ignition cylinder.	Black	7
B-CAN High	Pink	4	Data	Immobilizer control unit around ignition cylinder.	Black	7
B-CAN Low	Blue	5	Data	Immobilizer control unit around ignition cylinder.	Black	7
Parking Lights	Gray	8	(-)	Headlight switch.	Black & White	12
F-CAN High	White	6	Data	OBDII diagnostic connector.	Black	16
F-CAN Low	Red or Black	14	Data	OBDII diagnostic connector.	Black	16
Honda Pilot 2009-2015						
12V	White	1	(+)	Ignition switch.	White	5
Starter	Yellow	2	(+)	Ignition switch.	White	5
Ignition	Pink	3	(+)	Ignition switch.	White	5
Accessory 1	Orange	5	(+)	Ignition switch.	White	5
Accessory 2	Red	4	(+)	Ignition switch.	White	5
Immobilizer Data	Pink	2	Data	Immobilizer control unit around ignition cylinder.	Green	7
Ignition Interrupt	Brown	6	(+)	Immobilizer control unit around ignition cylinder.	Green	7
B-CAN High	White	4	Data	Immobilizer control unit around ignition cylinder.	Green	7
B-CAN Low	Lt. Green	5	Data	Immobilizer control unit around ignition cylinder.	Green	7
Parking Lights	Gray	8	(-)	Headlight switch.	Black & White	12
F-CAN High	White	6	Data	OBDII diagnostic connector.	Black	16
F-CAN Low	Red or Black	14	Data	OBDII diagnostic connector.	Black	16
Honda Odyssey 2011-2016						
12V	White	1	(+)	Ignition switch.	White	5
Starter	Yellow	2	(+)	Ignition switch.	White	5
Ignition	Blue	3	(+)	Ignition switch.	White	5
Accessory 1	Orange	5	(+)	Ignition switch.	White	5
Accessory 2	Red	4	(+)	Ignition switch.	White	5
Immobilizer Data	Violet	2	Data	Immobilizer control unit around ignition cylinder.	White	7
Ignition Interrupt	Yellow	6	(+)	Immobilizer control unit around ignition cylinder.	White	7
B-CAN High	Pink	4	Data	Immobilizer control unit around ignition cylinder.	White	7
B-CAN Low	Blue	5	Data	Immobilizer control unit around ignition cylinder.	White	7
Parking Lights	Gray	8	(-)	Headlight switch.	Black & White	12
F-CAN High	White	6	Data	OBDII Diagnostic connector.	Gray or White	16
F-CAN Low	Black	14	Data	OBDII Diagnostic connector.	Gray or White	16

Installation Type 2

WARNING
No takeover feature is available. The engine will stop when a door is opened. To remote start the engine, all doors must be closed.



---- Not required in D2D mode.

[1] Tach wire is an optional connection required on some remote starters, which do not support a tach signal in D2D.

[2] Connect the Autolight OFF wire only if the vehicle is equipped with automatic headlights.

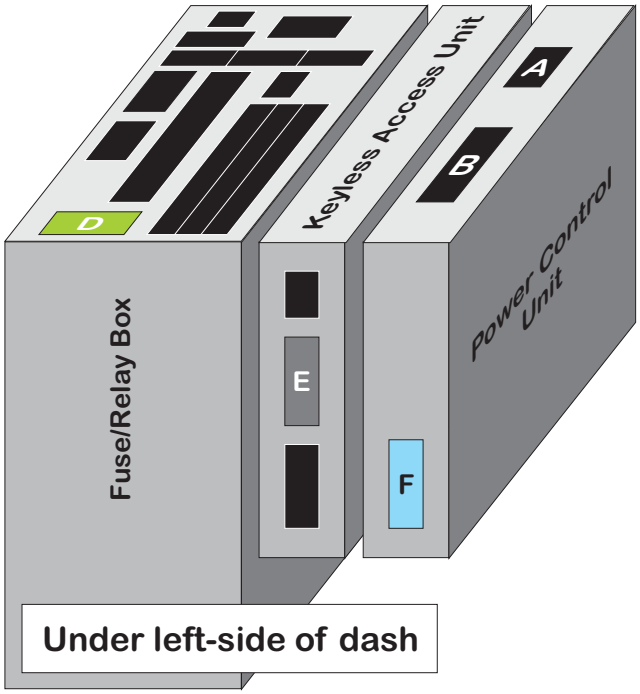
[3] Optional but required for OEM Remote Keyless Entry to operate when vehicle is remote started.

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

Type 2 - Vehicle Wiring Reference Chart

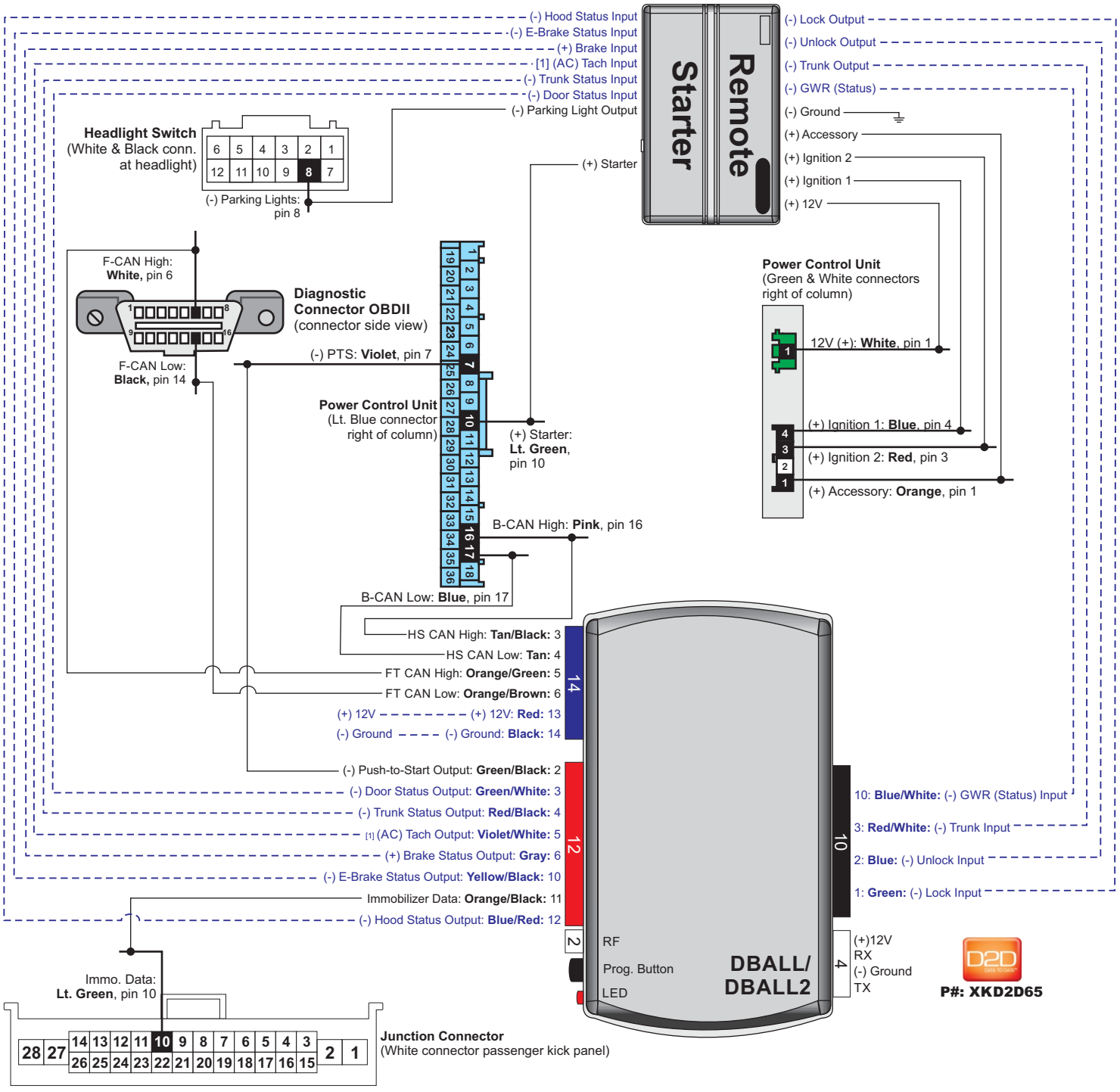
Wire Information				Connector Information		
Function	**Color**	**Pin**	**Polarity**	**Location**	**Color**	**Pins**
Acura TL (Smart Key) 2009-2013						
12V	White	1	(+)	PCU (Power Control Unit), right of driver dash fuse box, bottom connector.	White	1
Ignition 1	Blue	4	(+)	PCU, right of driver dash fuse box, bottom connector.	White	4
Ignition 2	Red	3	(+)	PCU, right of driver dash fuse box, bottom connector.	White	4
Accessory	Orange	1	(+)	PCU, right of driver dash fuse box, bottom connector.	White	4
Parking Lights	Gray	8	(-)	Headlight switch.	Black & White	12
F-CAN High	White	6	Data	OBDII diagnostic connector.	Gray	16
F-CAN Low	Black	14	Data	OBDII diagnostic connector.	Gray	16
Immobilizer Data	Lt. Green	21	Data	Keyless Access Control Unit right of driver dash fuse box left of PCU, bottom connector.	Gray	32
Ignition Interrupt	Yellow	17	Data	Keyless Access Control Unit right of driver dash fuse box left of PCU, bottom connector.	Gray	32
PTS	Lt. Blue	7	(-)	PCU, right of driver dash fuse box, bottom connector.	Lt. Blue	36
Starter	Lt. Green	10	(+)	PCU, right of driver dash fuse box, bottom connector.	Lt. Blue	36
B-CAN High	Pink	16	Data	PCU, right of driver dash fuse box, bottom connector.	Lt. Blue	36
B-CAN Low	Blue	17	Data	PCU, right of driver dash fuse box, bottom connector.	Lt. Blue	36

Locating Component



Installation Type 3

WARNING
No takeover feature is available. The engine will stop when a door is opened. To remote start the engine, all doors must be closed.



---- Not required in D2D mode.

[1] Tach wire is an optional connection required on some remote starters, which do not support a tach signal in D2D.

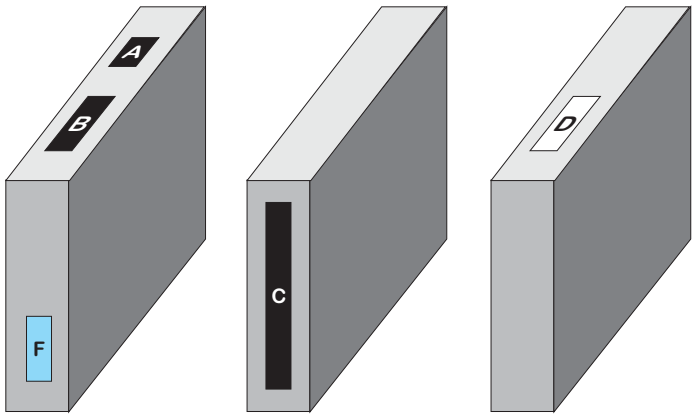
[2] Connect the Autolight OFF wire only if the vehicle is equipped with automatic headlights.

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

Type 3 - Vehicle Wiring Reference Chart

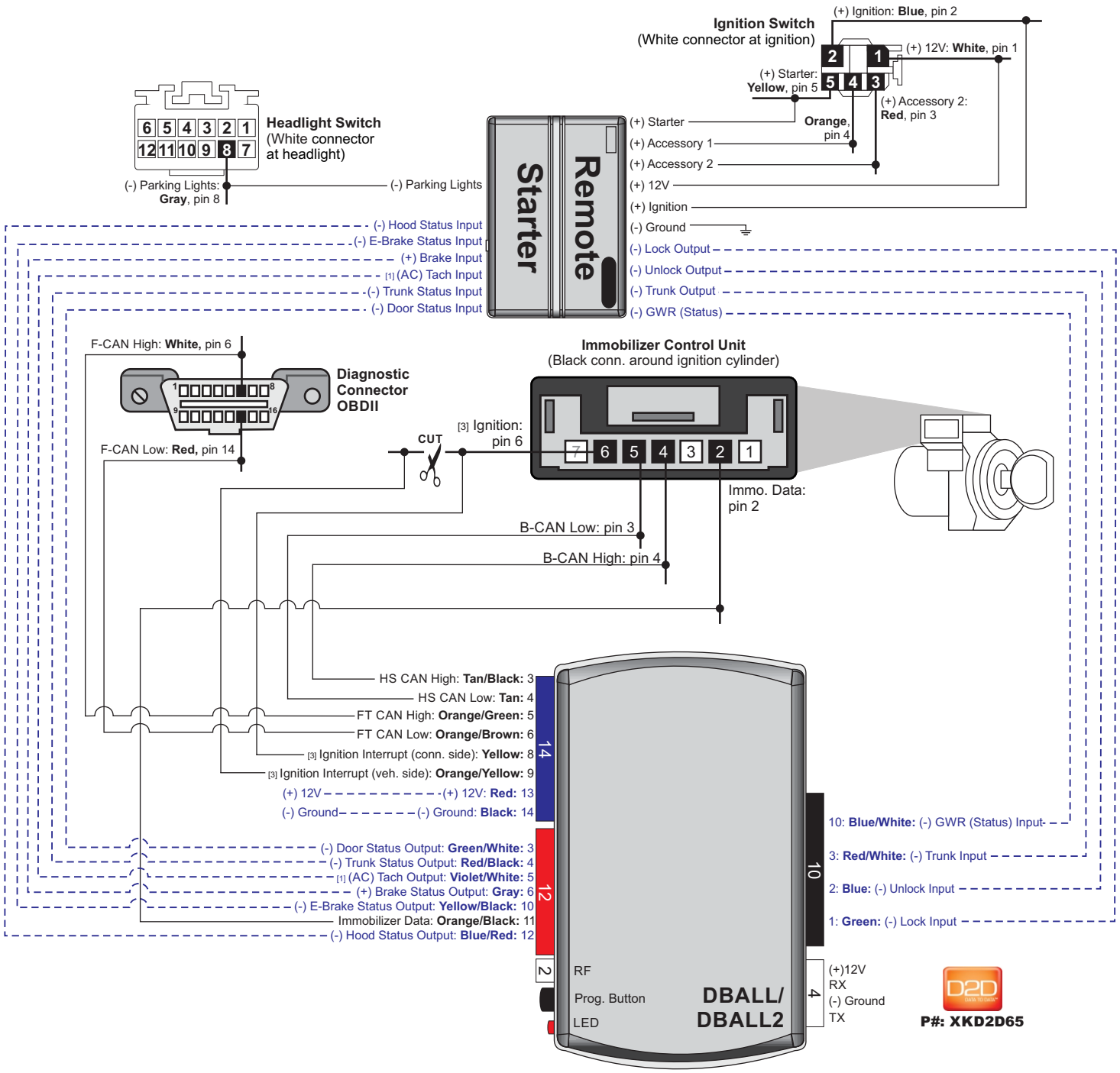
Wire Information				Connector Information		
Function	**Color**	**Pin**	**Polarity**	**Location**	**Color**	**Pins**
Acura ZDX (Smart Key) 2010-2013						
12V	White	1	(+)	PCU (Power Control Unit), right steering column, bottom connector.	Green	1
Ignition 1	Blue	4	(+)	PCU, right steering column, bottom connector.	White	4
Ignition 2	Red	3	(+)	PCU, right steering column, bottom connector.	White	4
Accessory	Orange	1	(+)	PCU, right steering column, bottom connector.	White	4
Parking Light	White	8	(-)	Headlight switch.	Black	12
F-CAN High	White	6	Data	OBDII diagnostic connector.	White	16
F-CAN Low	Black	14	Data	OBDII diagnostic connector.	White	16
Immobilizer Data	Lt. Green	10	Data	Junction connector above passenger kick panel fusebox.	White	28
PTS	Violet	7	(-)	PCU, right steering column.	Lt. Blue	36
Starter	Lt. Green	10	(+)	PCU, right steering column.	Lt. Blue	36
B-CAN High	Pink	16	Data	PCU, right steering column.	Lt. Blue	36
B-CAN Low	Blue	17	Data	PCU, right steering column.	Lt. Blue	36

Locating Component



Power Control Unit | Combination Light Switch | Fuse Box

Installation Type 4



Not required in D2D mode.

[1] Tach wire is an optional connection required on some remote starters, which do not support a tach signal in D2D.

[2] Connect the Rearm wire **only** if the vehicle is equipped with automatic headlights.

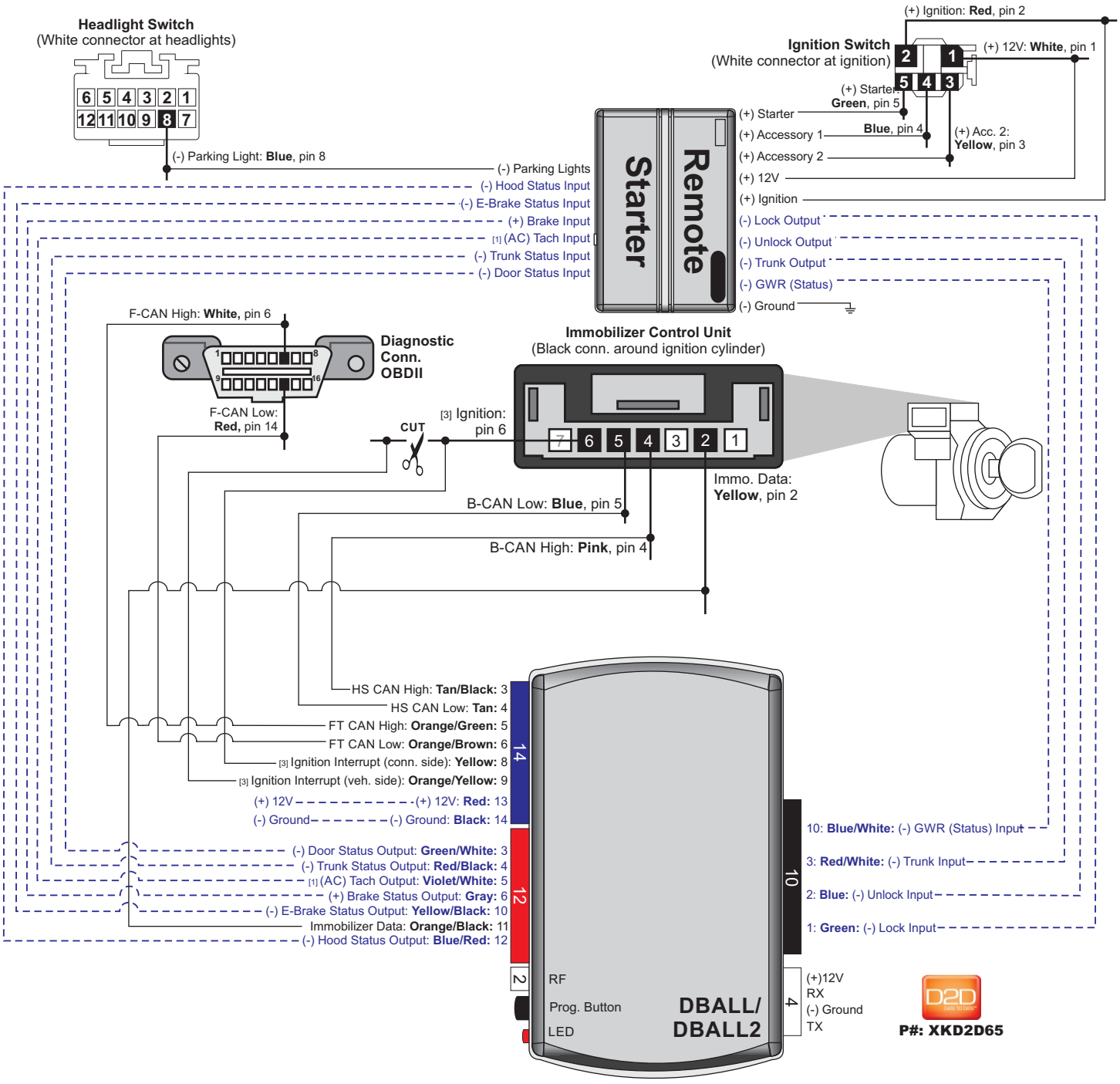
[3] Optional but required for OEM Remote Keyless Entry to operate when vehicle is remote started.

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

Type 4 - Vehicle Wiring Reference Chart

Wire Information				Connector Information		
Function	**Color**	**Pin**	**Polarity**	**Location**	**Color**	**Pins**
Honda Civic 2012-2015						
12V	White	1	(+)	Ignition Switch.	White	5
Ignition	Blue	2	(+)	Ignition Switch.	White	5
Starter	Yellow	5	(+)	Ignition Switch.	White	5
Accessory 2	Red	3	(+)	Ignition Switch.	White	5
Accessory 1	Orange	4	(+)	Ignition Switch.	White	5
Immobilizer Data	Lt Green	2	Data	Immobilizer connector, at steering column around ignition cylinder.	Black	7
Ignition Interrupt	Yellow	6	(+)	Immobilizer control unit around ignition cylinder.	Gray	7
B-CAN High	Pink	4	Data	Immobilizer connector, at steering column around ignition cylinder.	Black	7
B-CAN Low	Blue	5	Data	Immobilizer connector, at steering column around ignition cylinder.	Black	7
Parking Lights	Gray	8	(-)	Light Switch, in the steering column.	White	12
F-CAN High	White	6	Data	OBDII Diagnostic connector.	White	16
F-CAN Low	Red	14	Data	OBDII Diagnostic connector.	White	16

Installation Type 5



Not required in D2D mode.

[1] Tach wire is an optional connection required on some remote starters, which do not support a tach signal in D2D.

[2] Connect the Autolight OFF wire only if the vehicle is equipped with automatic headlights.

[3] Optional but required for OEM Remote Keyless Entry to operate when vehicle is remote started.

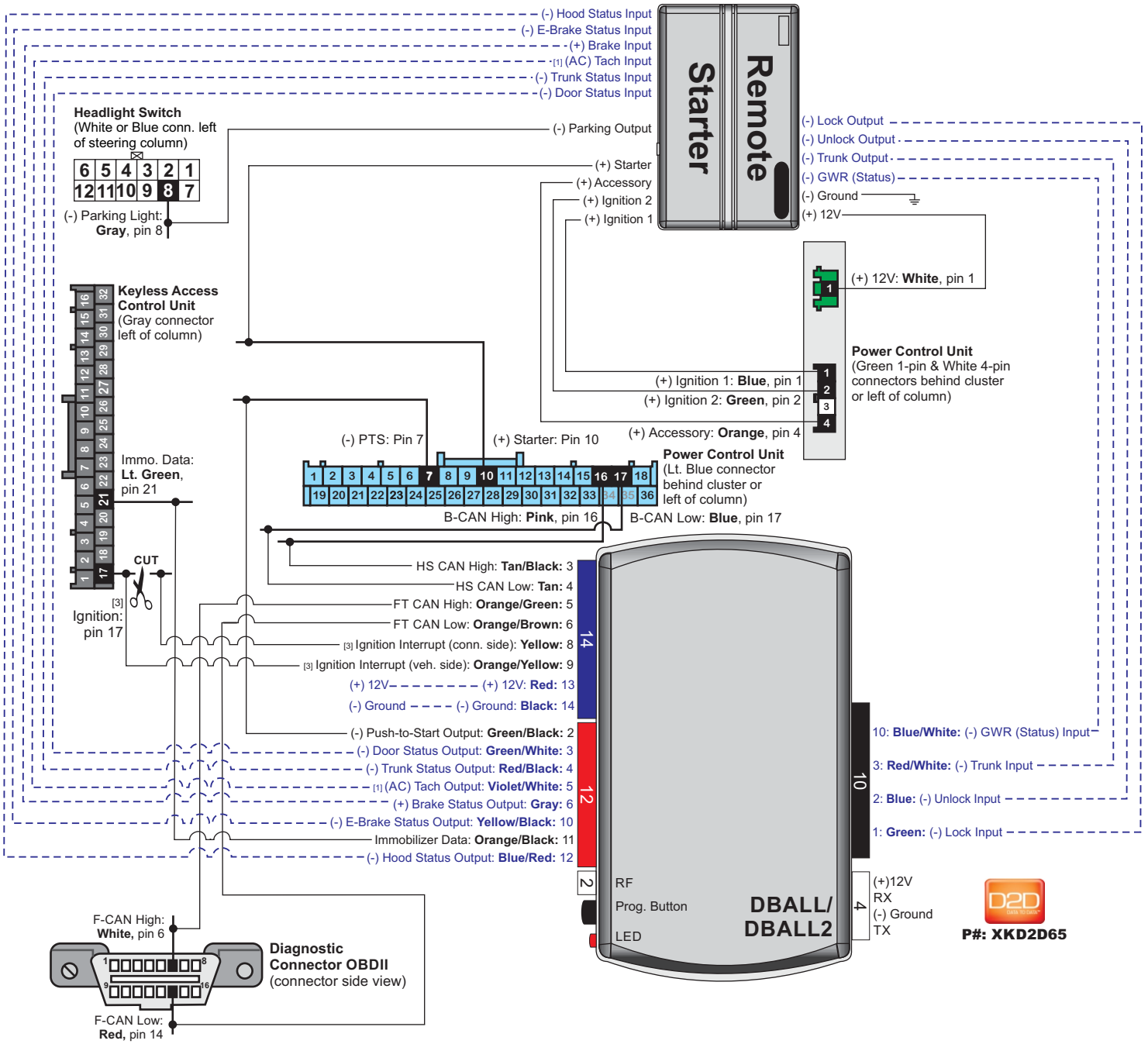
⚠ With the exception of the OBDII Diagnostic connector, all adapters are displayed from the wire side (unless specified otherwise).

Type 5 - Vehicle Wiring Reference Chart

Wire Information				Connector Information		
Function	**Color**	**Pin**	**Polarity**	**Location**	**Color**	**Pins**
Honda CR-V 2012-2016						
12V	White	1	(+)	Ignition Switch.	White	5
Ignition	Red	2	(+)	Ignition Switch.	White	5
Starter	Green	5	(+)	Ignition Switch.	White	5
Accessory 2	Yellow	3	(+)	Ignition Switch.	White	5
Accessory 1	Blue	4	(+)	Ignition Switch.	White	5
Immobilizer Data	Yellow	2	Data	Immobilizer connector at steering column around ignition cylinder.	Black	7
Ignition Interrupt	Blue	6	(+)	Immobilizer control unit around ignition cylinder.	Black	7
B-CAN High	Pink	4	Data	Immobilizer connector at steering column around ignition cylinder.	Black	7
B-CAN Low	Blue	5	Data	Immobilizer connector at steering column around ignition cylinder.	Black	7
Auto Headlamp Shutoff	Orange	1	(-)	Light Switch, in the steering column.	White	12
Parking Light	Blue	8	(-)	Light Switch, in the steering column.	White	12
F-CAN High	White	6	Data	OBDII Diagnotic connector	White	16
F-CAN Low	Red	14	Data	OBDII Diagnotic connector	White	16

Installation Type 6

WARNING
No takeover feature is available. The engine will stop when a door is opened. To remote start the engine, all doors must be closed.



---- Not required in D2D mode.

[1] Tach wire is an optional connection required on some remote starters, which do not support a tach signal in D2D.

[2] Connect the Autolight OFF wire only if the vehicle is equipped with automatic headlights.

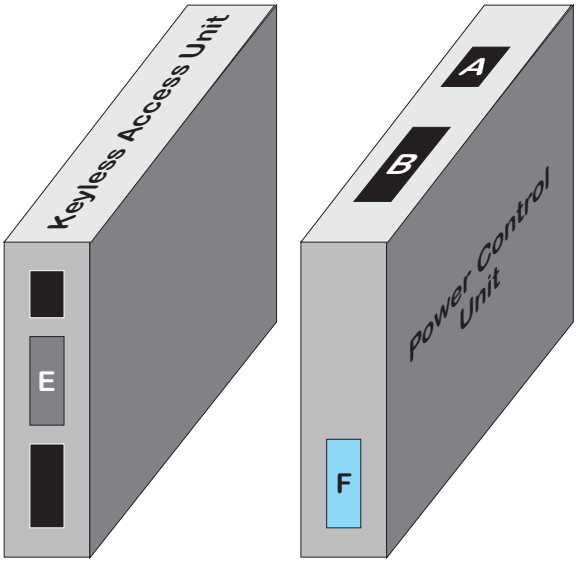
[3] Optional but required for OEM Remote Keyless Entry to operate when vehicle is remote started.

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

Type 6 - Vehicle Wiring Reference Chart

Wire Information				Connector Information		
Function	**Color**	**Pin**	**Polarity**	**Location**	**Color**	**Pins**
Acura ILX (Smart Key) 2013-2015						
12V	White	1	(+)	Power Control Unit, behind cluster.	Green	1
Ignition 1	Blue	1	(+)	Power Control Unit, Connector B, behind cluster.	White	4
Ignition 2	Green	2	(+)	Power Control Unit, Connector B, behind cluster.	White	4
Accessory	Orange	4	(+)	Power Control Unit, Connector B, behind cluster.	White	4
Parking Light	Gray	8	(-)	Combination Light Switch (left side of steering column)	White	12
F-CAN High	White	6	Data	OBDII diagnostic connector.	White	16
F-CAN Low	Red	14	Data	OBDII diagnostic connector.	White	16
Immobilizer Data	Lt. Green	28	Data	Keyless Access Control Unit (Keyless Access), Conn. E, left side of steering column.	Gray	32
Ignition Interrupt	Yellow	17	Data	Keyless Access Control Unit right side of steering column.	Gray	32
Starter	Orange	10	(+)	Power Control Unit (Keyless Access), Connector F, behind cluster.	Lt Blue	36
Push-to-Start	Gray	7	(-)	Power Control Unit (Keyless Access), Connector F, behind cluster.	Lt Blue	36
B-CAN Low	Blue	17	Data	Power Control Unit (Keyless Access), Connector F, behind cluster.	Lt Blue	36
B-CAN High	Pink	16	Data	Power Control Unit (Keyless Access), Connector F, behind cluster.	Lt Blue	36
Acura RDX (Smart Key) 2013-2015						
12V	White	1	(+)	Power Control Unit, left side of steering column.	Green	1
Ignition 1	Blue	1	(+)	Power Control Unit, Connector B, behind cluster, left side of steering column.	White	4
Ignition 2	Red	2	(+)	Power Control Unit, Connector B, behind cluster, left side of steering column.	White	4
Accessory	Orange	4	(+)	Power Control Unit, Connector B, behind cluster, left side of steering column.	White	4
Parking Light	Gray	8	(-)	Combination Light Switch (left side of steering column).	White	12
F-CAN High	White	6	Data	OBDII diagnostic connector.	White	16
F-CAN Low	Red	14	Data	OBDII diagnostic connector.	White	16
Immobilizer Data	Lt. Green	28	Data	Keyless Access Control Unit (Keyless Access), Conn. E, left side of steering column.	Gray	32
Ignition Interrupt	Yellow	17	Data	Keyless Access Control Unit right side of steering column.	Gray	32
Starter	Gray	10	(+)	Power Control Unit (Keyless Access), Connector F, behind cluster.	Lt Blue	36
Push-to-Start	Brown	7	(-)	Power Control Unit (Keyless Access), Connector F, behind cluster.	Lt Blue	36

Locating Component



On the ILX, the ***Keyless Access Control Unit*** is to the right of the steering column, and the ***Power Control Unit*** is behind the instrument cluster.

On the RDX, the ***Keyless Access Control Unit*** and the ***Power Control Unit*** are both to the right of the steering column.

Module Programming for Types 1, 4, 5

Refer to the LED Diagnostics section on pages 25-26 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.

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 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.

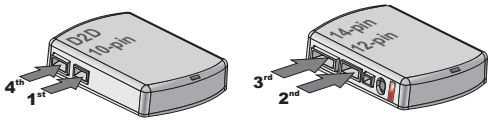
Flashing a module using your smartphone or tablet

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 programming instructions below.

D2D Installation

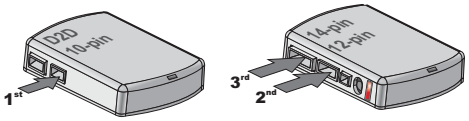
If required for your installation, connect the 10-pin, 12-pin and 14-pin harnesses to the module, then connect the 4-pin D2D harness.



OR

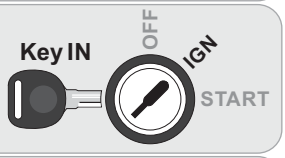
W2W Installation

If required for your installation, connect the 10-pin and 12-pin harnesses to the module, then connect the 14-pin harness to the module.



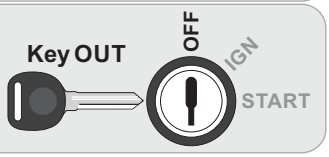
1 Wait until the LED turns ON solid red.

2 **Turn** the key to the ignition position.



3 The LED turns ON green for 3 seconds then shuts off.

4 Turn vehicle ignition off once the module is successfully programmed.



Module Programming for Types 2 & 3 (Takeover feature is Unavailable)

Refer to the LED Diagnostics section on pages 25-26 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.

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 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.

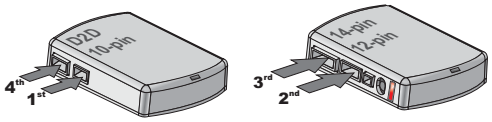
Flashing a module using your smartphone or tablet

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 programming instructions below.

D2D Installation

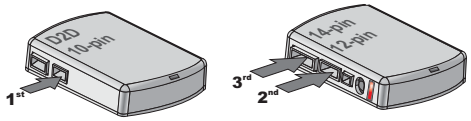
If required for your installation, connect the 10-pin, 12-pin and 14-pin harnesses to the module, then connect the 4-pin D2D harness.



OR

W2W Installation

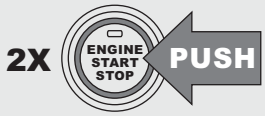
If required for your installation, connect the 10-pin and 12-pin harnesses to the module, then connect the 14-pin harness to the module.



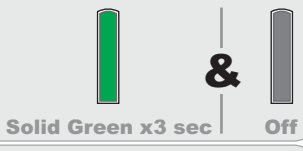
1 Wait until the LED turns ON solid red.

2 Insert the OEM remote into the key port.

3 **Important:** Do NOT press the brake pedal.
Press the Push-to-Start (PTS) button twice to turn the ignition ON.



4 The LED turns ON solid green for 3 seconds and shuts off.



5 **Press** the Push-to-Start (PTS) button once more to turn the ignition OFF.

Module Programming for Type 6

Refer to the LED Diagnostics section on pages 21 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.

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 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.

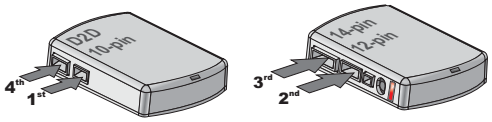
Flashing a module using your smartphone or tablet

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 programming instructions below.

D2D Installation

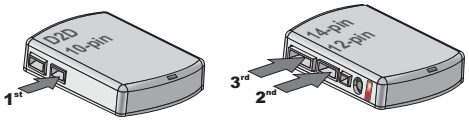
If required for your installation, connect the 10-pin, 12-pin and 14-pin harnesses to the module, then connect the 4-pin D2D harness.



OR

W2W Installation

If required for your installation, connect the 10-pin and 12-pin harnesses to the module, then connect the 14-pin harness to the module.



1 Wait until the LED turns ON solid red.

2 Disassemble the OEM FOB key to remove the battery.

3 **Important:** Do NOT press the brake pedal.
Place key next to Push-to-Start (PTS) button and **press** this button twice to turn the ignition ON.

4 The LED turns ON green for 3 seconds and shuts off.

5 **Press** once on the Push-to-Start (PTS) button to turn vehicle ignition off once the module is successfully programmed.

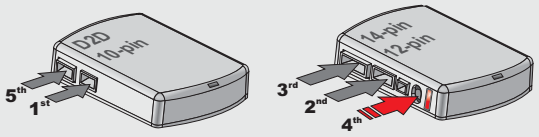
Module Reset

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

D2D Installation

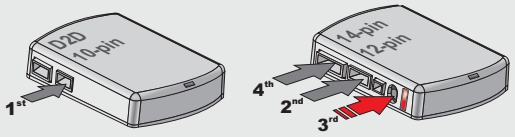
If required for your installation, connect the 10-pin, 12-pin & 14-pin harnesses to the module. Press and hold the programming button, then connect the 4-pin D2D harness.



OR

W2W Installation

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 then turns ON solid red.

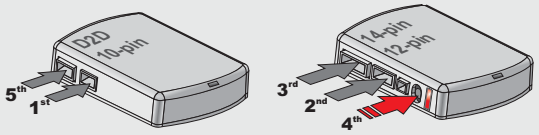
Hard Reset

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

D2D Installation

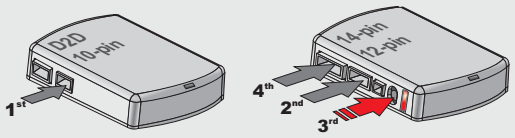
If required for your installation, connect the 10-pin, 12-pin & 14-pin harnesses to the module. Press and hold the programming button, then connect the 4-pin D2D harness.



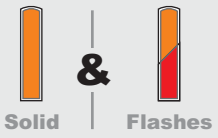
OR

W2W Installation

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.

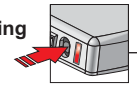
Feature & Option List

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. 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 on first press and unlocks all doors on a second press within 5 seconds.
		2. All	Unlocks all doors on first press.
3	Smart OEM Alarm Control	1. Disabled	The OEM alarm will not be controlled by DBALL 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. The reason for this is, factory alarm control must often be done by lock or unlock operation. This could create unnecessary actions on door lock modules, such as the horn to honk. When possible, 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. Smart OEM Alarm Control will also monitor the remote starter actions so that the factory alarm control is not done twice. A remote starter, for which the Safelock feature is active, will work perfectly with this option and will make it invisible to the user.

Feature Programming



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
Module Programming		
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.
Module Programming - Error Codes		
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
External module synchronization		
 (Flashes red, red then orange) x 10	OBDII feature is not supported.	The diagnostic data bus was not detected, therefore the SmartStart features will be limited.
Activation Ground When Running (Status)		
 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		
 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.	
Shutdown codes		
 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.

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.

Vehicle Takeover

No vehicle takeover available for push-to-start models. The engine will stop when a door is opened.

Wait at least 2 seconds before restarting the engine or an error message can appear in the vehicle information display.

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).

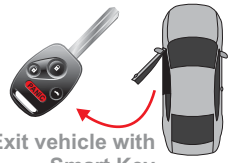
Stop & put vehicle in Park (P)

2 Press the button to remote start the vehicle.*


Press remote start button*

3 It is 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.


Exit vehicle with Smart Key

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

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 x1 + ⟳	Press ƒ once, then ⟳ to reset the remote starter runtime.

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

Notes