



Update Alert: Firmware updates are posted to 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 for PTS vehicles

The DBALL-NIS04 is an override OEM Transponder Immobilizer Via Data (No Key Required). Interfaces directly with the latest models in Nissan ignition immobilizer systems to provide seamless, safe and secure system integration when adding an aftermarket remote starter. Dependable in all weather conditions, DBALL Upgradable Vehicle Interface Solutions are the best option when reliable & secure remote starting is your goal.



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TECHNICAL SUPPORT / INFORMATION



web resources:

www.xpresskit.com
www.xpressvip.com
www.directechs.com

Vehicles						AV-Parking Lights Control	DL-Arm Factory Security	DL-Disarm Factory Security	DL-Door Lock Control	DL-Door Unlock	DL-Driver Priority Unlock	DL-Trunk / Hatch Release	FOB-Control of aftermarket alarm OEM remote	PK-Immobilizer Bypass-Data N Req'd	RS-Tach / RPM Output	SS-Entry Monitoring ALL Door	SS-Entry Monitoring Driver Door	SS-Entry Monitoring Hood Pin (Only if equipped with OEM alarm)	SS-Entry Monitoring Trunk/Hatch	ST-Brake Status (foot brake)	ST-Hand Brake Status	ST-Ignition Status	BCM Type	IPDM Type
Infiniti																								
EX (PTS)	1	1	1	1		•			•	•	•		D	•	•	•	D	•	•	•	•	•	1	1
FX (PTS)	1	1	1	1		•			•	•	•		D	•	•	•	D	•	•	•	•	•	1	1
G (PTS)	1	1	1	1	1	•			•	•	•		D	•	•	•	D	•	•	•	•	•	1	1
M (PTS)	2	2				•			•	•	•		D	•	•	•	D	•	•	•	•	•	2	1
QX (PTS)	2	2				•			•	•	•		D	•	•	•	D	•	•	•	•	•	2	2
Nissan																								
370Z (PTS)	1	1	1			•			•	•	•		D	•	•	•	D	•	•	•	•	•	1	1
Cube (PTS)	2	2	2			•			•	•	•		D	•	•	•	D	•	•	•	•	•	2	2
GT-R (PTS)	1	1	1			•			•	•	•		D	•	•	•	D	•	•	•	•	•	1	1
Juke (PTS)	2	2				•			•	•	•		D	•	•	•	D	•	•	•	•	•	2	2
Murano (PTS)	1	1	1			•			•	•	•		D	•	•	•	D	•	•	•	•	•	1	1
Patrol (PTS)	1	1	1			•			•	•	•		D	•	•	•	D	•	•	•	•	•	1	1

Legend:

PTS - Push to Start Vehicles

1 = Installation Type 1

2 = Installation Type 2

• = Available in Wire to Wire & Data to Data mode

D = Available in Data to Data mode only

W = Available in Wire to Wire mode only

DL= OE Door Lock & Alarm Controls

SS= Entry Point Status -Security

AV = Horn & Lights Control

FOB = Factory Remote Status Control

RS = Engine Start & Status

ST = Function/Feature Status

CC = Comfort & Convenience Controls

Wiring Reference Chart for Type 1

Car	Year	BCM Green Connector		BCM Black Connector						BCM Gray Connector		IPDMER				
		(-) IGN 2	(-) Starter	(+) IGN 1	(-) PTS	CAN L	CAN H	(+) ACC 1	(+) ACC 2	Security LED	(-) Driver door (Rap OFF)	(+) Neutral	(+) 12V	(-) Start	(+) Neutral	(+) Starter Out
		47(16)	52(21)	82(11)	89(18)	90(19)	91(20)	95(24)	102(31)	141(30)	150(39)	30	36	46	72	80
INFINITI																
EX (J50) (International)	IUN 2008 DEC 2009	Y	SB	R	BR	P	B	O	O	G	LG	GR	G	LG or R	N/A	W
EX (J50) (International)	IAN 2009 SEP 2010	Y	SB	R	BR	P	B	O	O	G	LG	V or GR	G	R(G)/ SB(LHD;D)/ V(RHD;D)	N/A	W
EX (J50) (International)	OCT 2010 UP	BG	SB	R	BR	P	B	BG	BG	G	GR	V or GR	G	R(G)/ SB(LHD;D)/ V(RHD;D)	N/A	W
FX (S51) (Europe)	IUN 2008 MAY 2009	Y	SB(LHD)/ LG(RHD)	R	B(LHD)/ BR(RHD)	P	B	O	O	G	GR	GR	G	BR(LHD)/ R(RHD)	N/A	W
FX (S51) (US)	IUN 2008 MAY 2009	Y	LG	P	SB	P	B	O	O	G	GR	GR	G	BR	N/A	W
FX (S51) (International)	IUN 2009 UP	Y	LG	P or R	SB or B(LHD)/ BR(RHD)	P	B	O	O	G	GR	V or GR	G	BR(LHD;G)/ LG(LHD;D)/ R(RHD;G)/ SB(RHD;D)	N/A	W
G Sedan (V36) (US)	DEC2006 NOV2007	Y	SB	R	BR	P	B	O	O	G	GR	GR	G	BR	N/A	W
G Sedan (V36) & G COUPE (CV36) (US)	DEC2007 NOV2008	Y	SB	R	BR	P	B	O	O	G	GR	GR	G	P	N/A	G
G Sedan (V36) (International)	IUL 2008 DEC 2009	Y(LHD)/ O(RHD)	SB(LHD)/ R(RHD)	R(LHD)/ GR(RHD)	BR	P	B	O(LHD)/ B(RHD)	O(LHD)/ Y(RHD)	R	GR(LHD)/ O(RHD)	GR(LHD)	G(LHD)/ V(RHD)	SB(LHD)/ Y(RHD)	GR(RHD)	W
G Sedan (V36) (Europe)	IAN 2010 UP	Y(LHD)/ BG(RHD)	R	SB(LHD)/ GR(RHD)	BR	P	B	BG(LHD)/ B(RHD)	BG(LHD)/ Y(RHD)	W(LHD)/ R(RHD)	GR(LHD)/ BG(RHD)	GR(LHD)	G(LHD)/ V(RHD)	SB(LHD)/ Y(RHD)	GR(RHD)	W
G Sedan (V36) (US)	IAN 2010 UP	Y	R	SB	BR	P	B	BG	BG	G	GR	GR(LHD)	G(LHD)/ V(RHD)	SB(LHD)/ Y(RHD)	GR(RHD)	W
G Coupe (CV36) & G Conv (HV36) (International)	IUN 2008 UP	Y	SB or BR(LHD)/ R(RHD)	R OR V	BR	P	B	BG or O	BG or O	P or R	R	GR(LHD)	G(LHD)/ V(RHD)	W(LHD)/ Y(RHD)	GR(RHD)	W
M (Y51) (International)	APR 2010 UP	BCM TYPE 2 (See Wiring Referece Chart for TYPE2)										(Pin31) W or LG	GR	BR	N/A	W
NISSAN																
370Z (Z34) (International)	APR 2009 UP	V or Y(LHD)/ SB(RHD)	SB(LHD)/ R or P(RHD)	R OR V	BR	P	B	O	O	Y(LHD)/ G(RHD)	GR	GR	G(LHD)/ W or V(RHD)	V(LHD)/ Y(RHD)	N/A	W
GTR (R35) (International)	DEC 2008 UP	Y	SB	R(LHD)/ SB(RHD)	BR	P	B	O	O	G	GR	GR	LG	O	N/A	W
Murano (International)	IUN 2008 IUL 2010	B	R	BR(LHD)/ R(RHD)	BR	P	B	B(LHD)/ GR(RHD)	Y(LHD)/ GR(RHD)	O	SB	BR	G	BR	N/A	B
Murano (International)	MAY 2010 UP	B(VQ35)/ P(YD25)	R	BR(LHD)/ R(RHD;VQ35)	BR(VQ35)/ V(YD25)	P	B	B or GR(VQ35)/ SB(YD25)	Y OR GR(VQ35)/ W(YD25)	O	SB(VQ35)/ LG(YD25)	BR	G	BR(G)/ R(D)	N/A	B(G)/ R(D)

Legend:

D Diesel Engine Models

G Gasoline Engine Models

LHD Left Hand Drive

RHD Right Hand Drive

VQ35 Engine Model VQ35

YD25 Engine Model YD25

Color Legend:

B BLACK

BG BEIGE

BR BROWN

DG DARK GREEN

G GREEN

GR GRAY

L BLUE

LG LIGHT GREEN

O ORANGE

P PINK

R RED

SB SKY BLUE

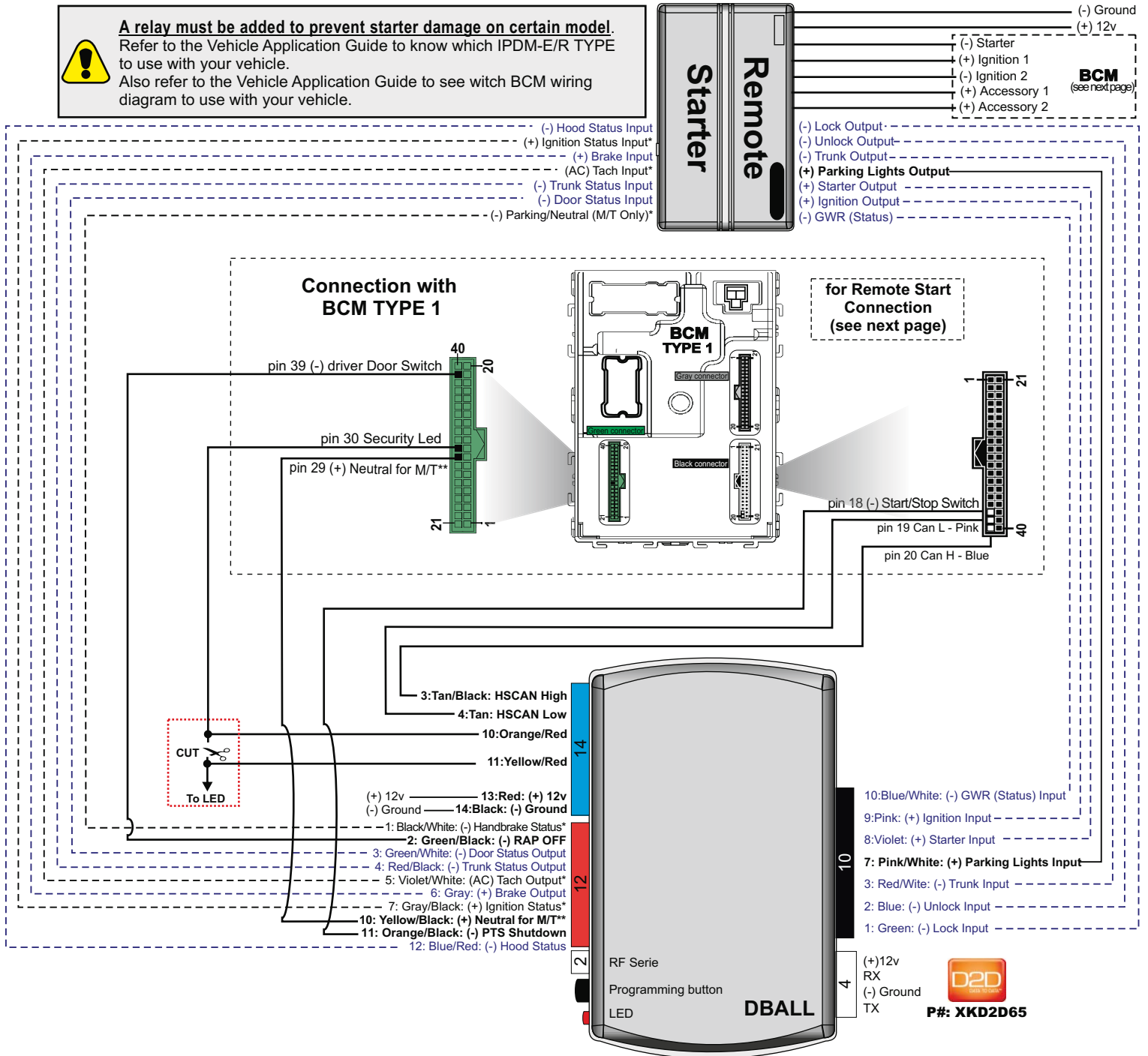
V VIOLET

W WHITE

Y YELLOW

Wiring Diagram - TYPE 1

Page 3



---- Not required in D2D mode.

* Tach and Ignition wires is an optional connection required on some remote starters, which do not support this signals in D2D.

** See Feature and Option list to know Auxiliary Channel programming options

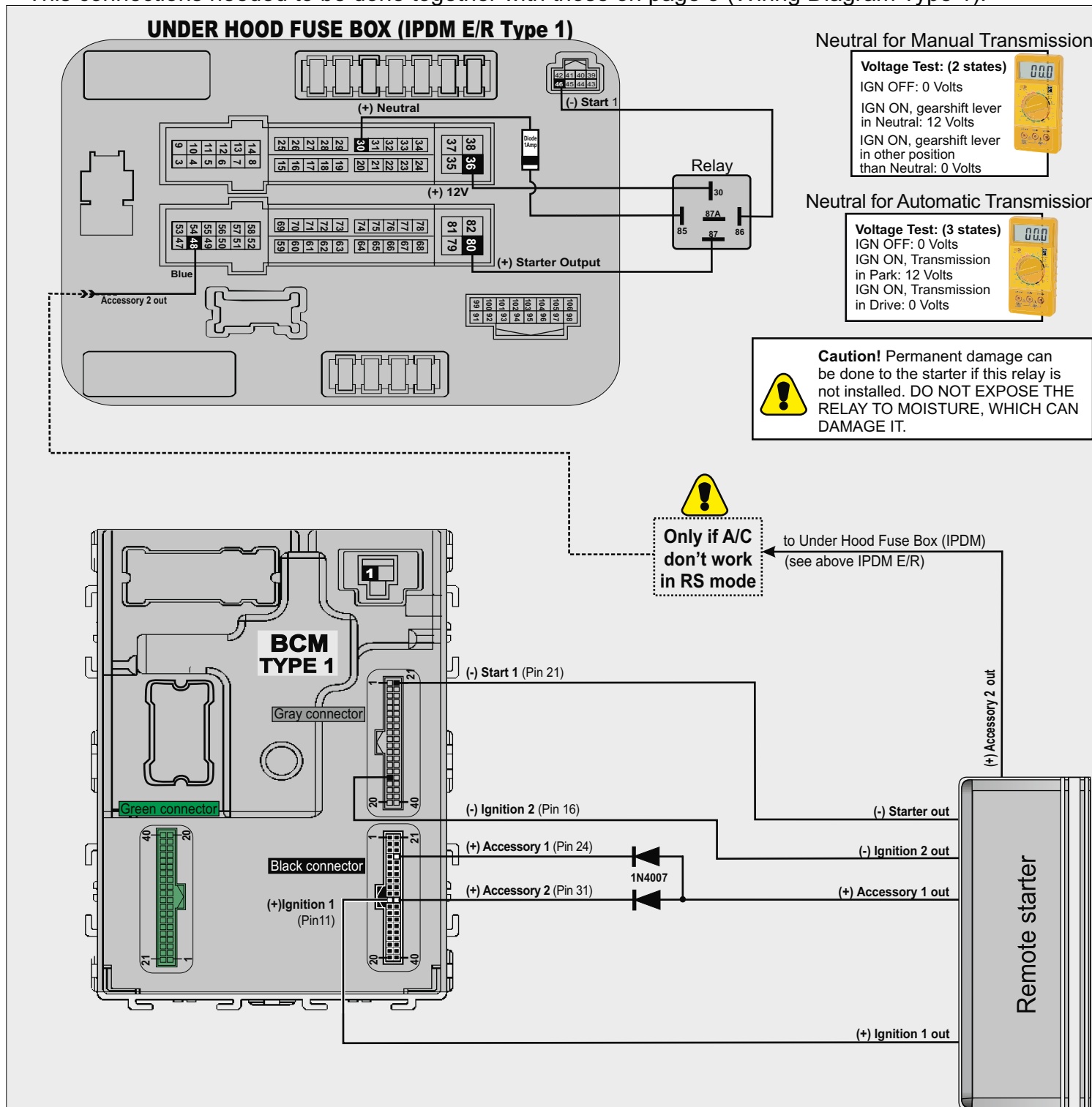
Wires are listed by pin numbers. This display is not representative of connector pin layouts, which are often stacked.

IPDM E/R (Type 1) and BCM (Type 1)

Page 4

Connection example with IPDM E/R Type 1 and BCM Type 1.

This connections needed to be done together with those on page 3 (Wiring Diagram Type 1).



Wiring Reference Chart for Type 2

Car	Year	BCM Black Connector			BCM	BCM White Connector						IPDMER				
		Security LED	CAN H	CAN L	(-)Driver Door	(+) Accesotry	(-) Starter	(-)IGN 2	(+)IGN 1	(-)PTS	(+) Accessory 1	(+)Starter Out	(+)12V	(-)Start	(+) Neutral	(+) Neutral
		23(38)	39(22)	40(21)	47(3)	96(35)	97(34)	98(33)	99(32)	100(31)	106(25)	3()	4()	30()	47()	48()
INFINITI																
M (Y51) (International)	APR 2010 UP	G	L	P	LG(LHD)/ GR(RHD)	SB(LHD)/ GR(RHD)	SB	B	R	BR(LHD)/ L(RHD)	B(LHD)/ BG(RHD)	IPDM TYPE 1 (See Wiring Referece Chart for TYPE1)				
QX (Z62) (International)	MAR 2010 UP	GR/R	L	P	GR/R	BR	R/W	O	R	SB	Y/G	R	L	R/W	N/A	BR
NISSAN																
Juke (F15) (International)	IUL 2010 UP	R	L	P	SB	BR	SB	P	R	LG	Y	R	P	V	N/A	BR
CUBE (Z12) (International)	AUG 2009 UP	R/Y	L	P	BR/Y	BR/W	L/R	BR	W/R	L/O	Y/B	BR or R	P	SB	BR	N/A
Patrol (Y62) (International)	MAR 2010 UP	GR/R	L	P	GR/R	BR	R/W	O	R	SB	Y/G	R	L	R/W	N/A	BR

Legend:

LHD Left Hand Drive

RHD Right Hand Drive

Color Legend:

B BLACK

BG BEIGE

BR BROWN

DG DARK GREEN

G GREEN

GR GRAY

L BLUE

LG LIGHT GREEN

O ORANGE

P PINK

R RED

SB SKY BLUE

V VIOLET

W WHITE

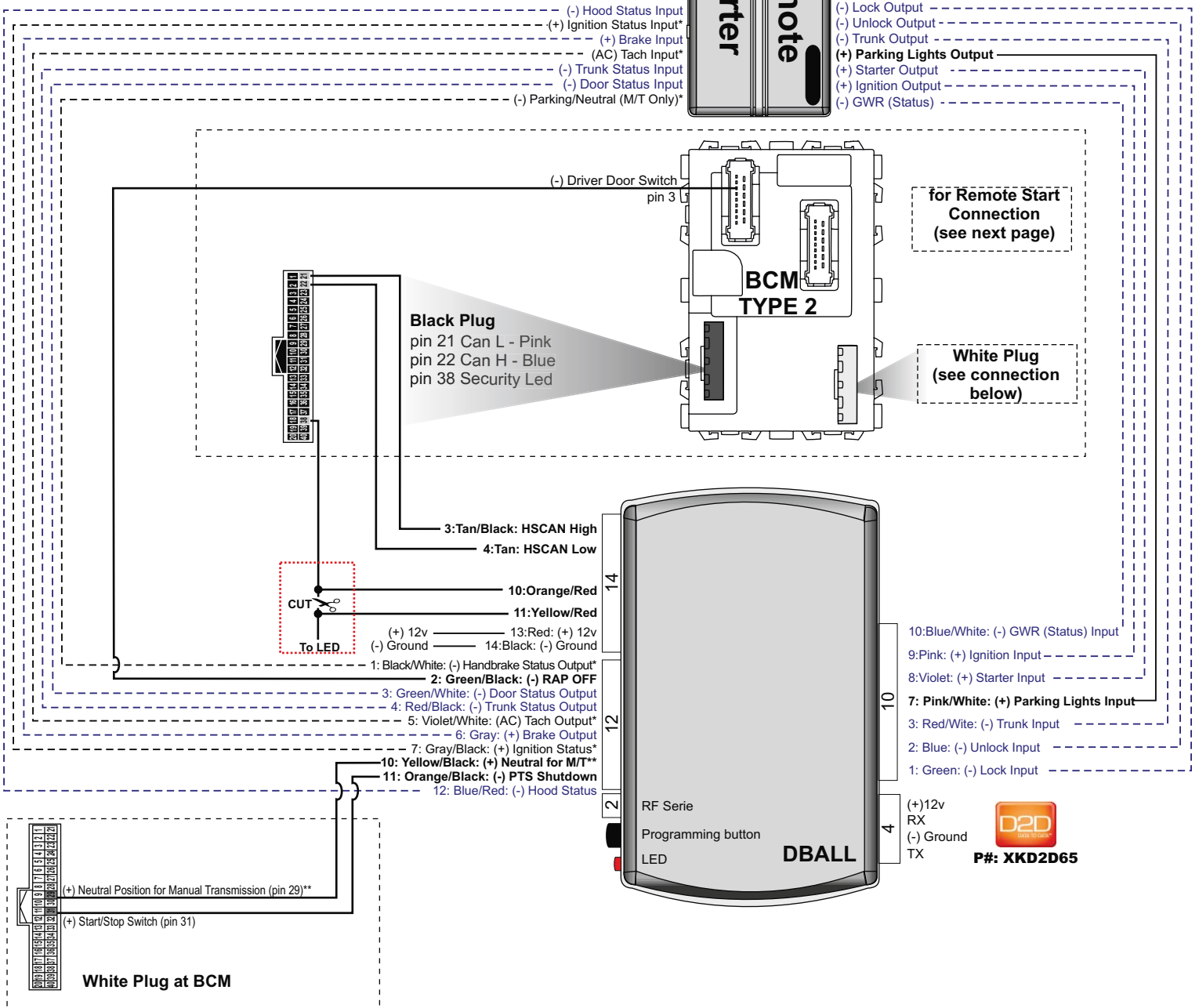
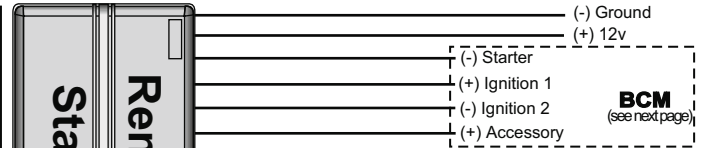
Y YELLOW

Wiring Diagram - TYPE 2

Page 5



A relay must be added to prevent starter damage on certain model.
Refer to the Vehicle Application Guide to know which IPDM-E/R TYPE to use with your vehicle.
Also refer to the Vehicle Application Guide to see with BCM wiring diagram to use with your vehicle.



---- Not required in D2D mode.

* Tach and Ignition wires is an optional connection required on some remote starters, which do not support this signals in D2D.

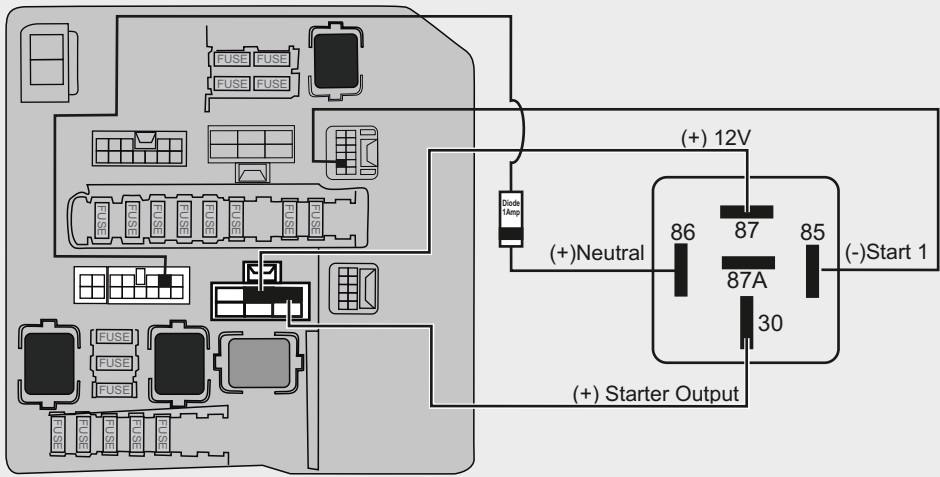
** See Feature and Option list to know Auxiliary Channel programming options

Wires are listed by pin numbers. This display is not representative of connector pin layouts, which are often stacked.

IPDM E/R (Type 2) and BCM (Type 2)

Connection example with IPDM E/R Type 2 and BCM Type 2.
This connections needed to be done together with those on page 5 (Wiring Diagram Type 2).

UNDER HOOD FUSE BOX (IPDM E/R Type 2)



Neutral for Manual Transmission

Voltage Test: (2 states)

IGN OFF: 0 Volts
IGN ON, gearshift lever
in Neutral: 12 Volts
IGN ON, gearshift lever
in other position
than Neutral: 0 Volts



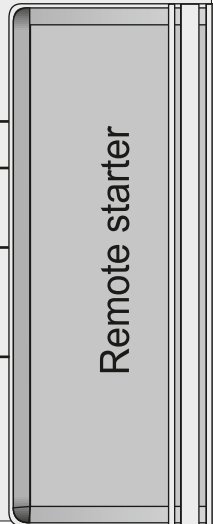
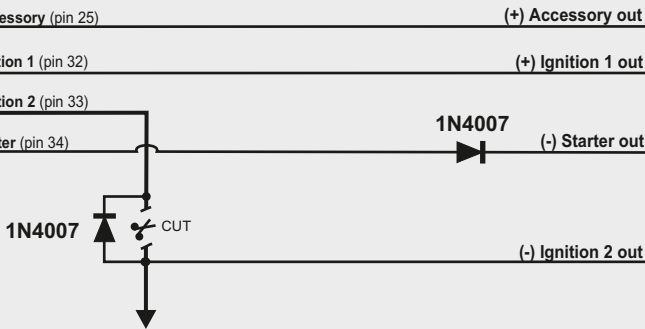
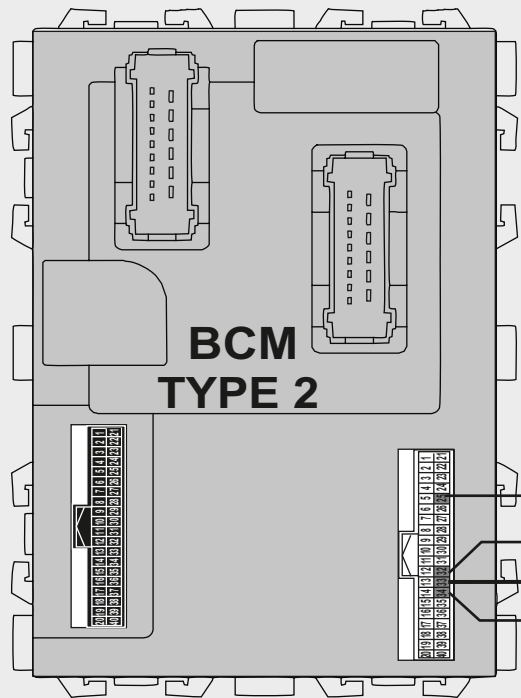
Neutral for Automatic Transmission

Voltage Test: (3 states)

IGN OFF: 0 Volts
IGN ON, Transmission
in Park: 12 Volts
IGN ON, Transmission
in Drive: 0 Volts



Caution! Permanent damage can be done to the starter if this relay is not installed. DO NOT EXPOSE THE RELAY TO MOISTURE, WHICH CAN DAMAGE IT.

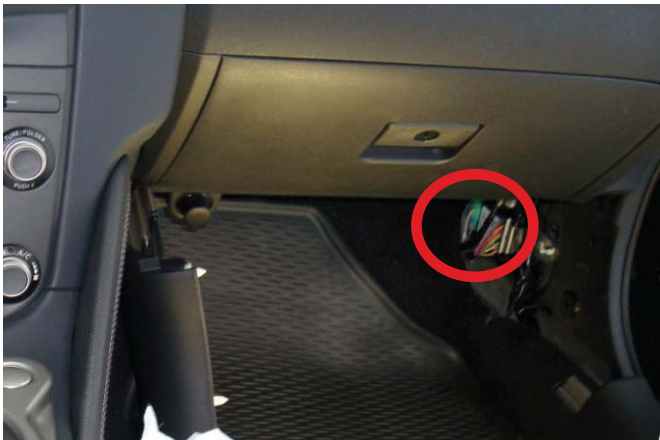


Locating the BCM in the Vehicle

Nissan Juke
(left of steering column)

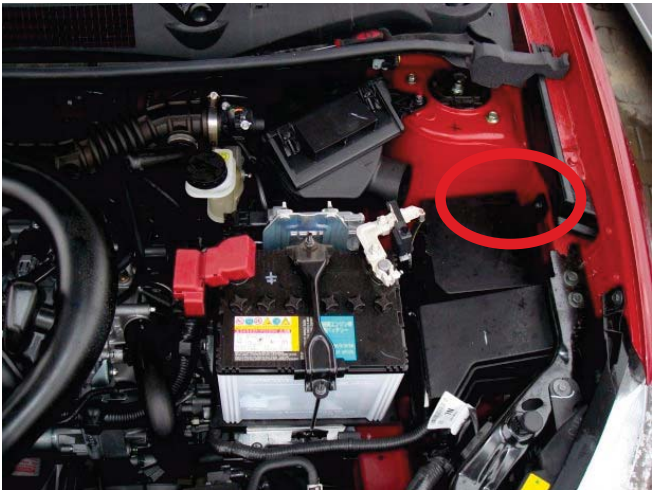


Infiniti FX37
(passenger kick panel)

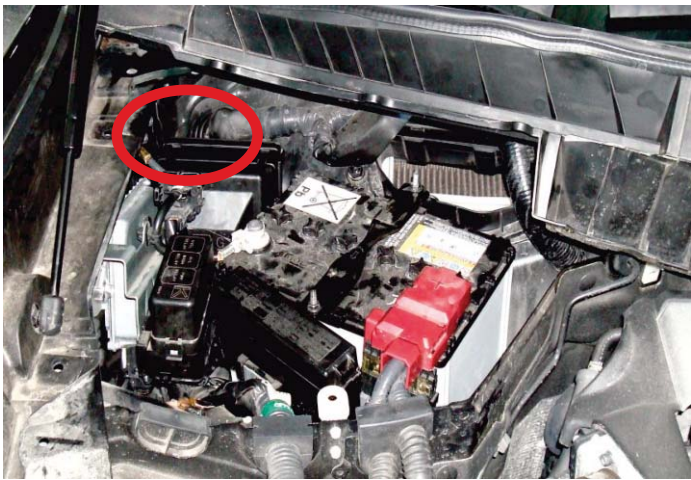


Locating the IPDM E/R in the Vehicle

Nissan Juke
(engine compartment driver side)



Infiniti FX37
(engine compartment passenger side)

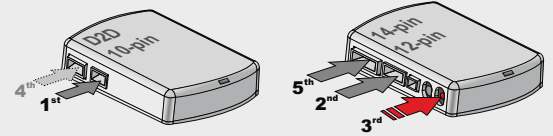


Module Programming

Page 8

1

Connect the 10-pin & 12-pin harnesses to the module.
Press & hold the Integrated Programming button (IPB), then connect the 4-pin D2D (only if using in D2D) & 14-pin harness to the module.



2

When the LED turns ON orange release the IPB.
The LED turns ON red.



3

Press Twice Push-to-Start (PTS) to turn the Ignition ON.



4

Wait until the LED turns ON solid green for 3 seconds, then turns OFF.
The module has been successfully programmed.



5

Press Once Push-to-Start (PTS) to turn the Ignition OFF



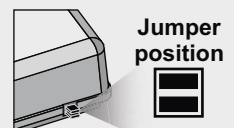
Module reset will be done automatically upon programming.



Refer to the LED Diagnostics section on page 8 for more information and for troubleshooting purposes.

Please Note:

When a DBALL is used in D2D with either Viper™, Clifford™ or Python™, the jumpers on the remote starter **MUST** be placed in the **Horizontal** operating position.



Feature and Option List

FEATURE ID	NAME	OPTIONS
1	Door lock	OFF
		On - Type 1 (EU)
		On - Type2 (US)
2	Light control on CAN	OFF
		ON
3	OEM alarm	No action
		OEM enable
		OEM disable

Feature Programming

Integrated
Programming
Button (IPB)



To enter feature programming routine

- For vehicles that are not Push-to-Start (PTS), use the key to turn the ignition ON, then OFF. For PTS vehicles, press the button twice to turn the ignition ON, then press it once more to turn it OFF.
- Within 5 sec, press and HOLD the integrated programming button (IPB). The orange LED turns ON after 3 seconds. Release the IPB.
- The green LED starts flashing slowly one time to indicate the feature number is 1. After a short delay, the red LED flashes rapidly to indicate the current option of feature 1. It repeats until next action happens.

Changing feature options

- Press the lock/arm or unlock/disarm button on aftermarket transmitter to change the option of the selected feature.
- The red LED flashes rapidly the number of times equal to the current option number. After a short delay, the green LED flashes slowly the number of times to indicate the current feature. It repeats until next action happens.

Accessing another feature

- Press and release the IPB a number of times to advance from the current feature to the next desired feature.
- The green LED flashes slowly the number of times equal to the feature number. After a short delay, the red LED flashes rapidly to indicate the current option of the current feature. It repeats until next action happens.











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

Once a feature is programmed

- Another feature(s) can be programmed.
- The feature programming can be exited.

Exiting feature programming

- No activity for 30 seconds; after 30 seconds, the orange LED will turn ON for 2 seconds to confirm exiting.
- OR
- Press and HOLD the IPB for 3 seconds. After 3 seconds, the orange LED will turn ON for 2 seconds to confirm exiting.

LED	Status	Description	Troubleshooting
Programming the Module			
	Off	Module has no power.	Make sure the 4-pin 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 on the completion of a programming sequence, or the ignition is turned on.	This can also mean there is an issue with the data bus wiring. Make sure the connections to the data bus are correct by referring to the wiring diagram.
	Flashes red continuously	Programming in process, do not turn key OFF.	Normal operation.
	Flashes red 1 time every second	The module is not programmed.	Turn the key off and start again the programming.
	Solid green for 3 seconds	Module has been successfully programmed.	Normal operation.
Remote Starting the Vehicle			
	Flashes green continuously	Ground out (GWR) is active	Normal operation.
	Off	N/A	The Ground While Running (status) wire is incorrectly connected. Refer to the wiring diagram to make the right connections.
Inactive Ground While Running			
	Flashes green x1	Lock feature.	If it does not flash, the bypass module did not receive the signal. Verify the connections between the bypass and the remote starter module.
	Flashes green x2	Unlock feature.	If it does not flash, the bypass module did not receive the signal. Verify the connections between the bypass and the remote starter module.
	Flashes green x3	Trunk release feature.	If it does not flash, the bypass module did not receive the signal. Verify the connections between the bypass and the remote starter module.

Limited One-Year Consumer Warranty

Page 11

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, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NON INFRINGEMENT 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. 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.

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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**