> **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 NISS05 is an OEM transponder immobilizer override via data (no key required). Interfaces directly with some of the latest models of Nissan & Infinity (Smart Key) ignition immobilizer systems to provide seamless, safe and secure system integration when adding an aftermarket remote starter.

Refer to the **Quick Reference Guide (QRG)** section for information on takeover, idle mode and Engine Idle Protection Shutdown (EIPS).

IMPORTANT!

Ensure that the neutral safety relay is installed on this vehicle. The wire colors sometimes differ from model to model than what is specified in the installation guide. Please use the specific pin locations when making these connections and always test the wires as mentioned, instead of relying on the wire colors.

ALWAYS TEST THE INSTALLATION ONCE THE RELAY IS INSTALLED, TO ENSURE THE VEHICLE CANNOT BE STARTED IN GEAR.

Index

DIRECTED

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.
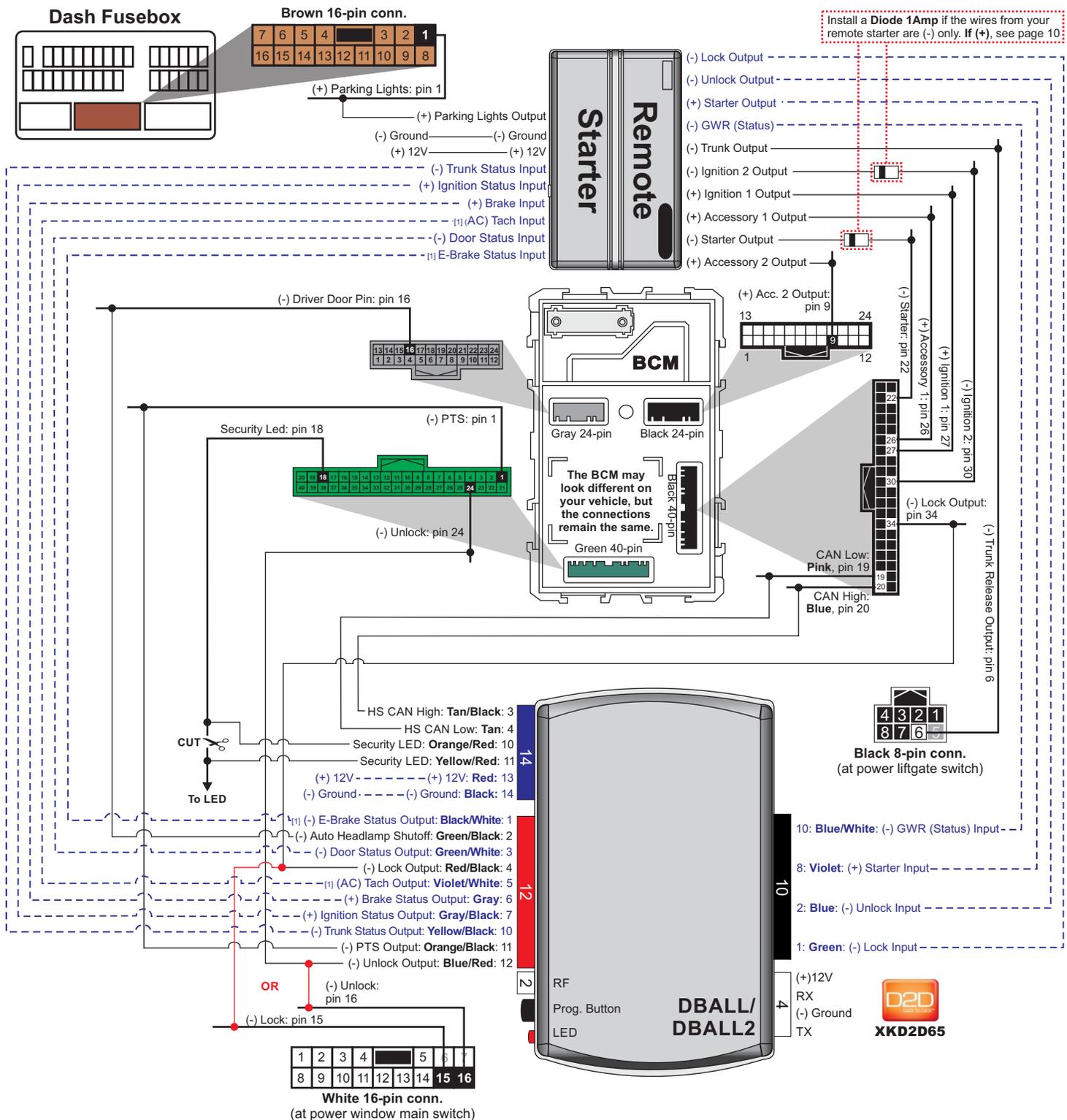
Vehicles	2016	2015	2014	2013	PK-Immobilizer Bypass-Data No Key Req'd	DL-Door Lock Control	DL-Door Unlock	DL-Driver Priority Unlock	FOB-Control of aftermarket alarm with OEM remote	PK-Push To Start Ignition Compatible	RS-Tach / RPM Output	SS-Entry Monitoring ALL Door Pins	SS-Entry Monitoring Driver Door Pin	SS-Entry Monitoring Hood Pin	SS-Entry Monitoring Trunk/Hatch Pin	ST-Brake Status (foot brake)	ST-E-Brake Status	ST-Ignition Status
Infiniti																		
JX35 (Smart Key)				1	•	•	•	•	D	•	•	•	D	•	•	•	•	•
Q50 (Smart Key)		2	2		•	•	•	•	D	•	•	•	D	•	•	•	•	•
QX60 (Smart Key)		1	1		•	•	•	•	D	•	•	•	D	•	•	•	•	•
Nissan																		
Altima (Smart Key)	3	3	3	3	•	•	•	•	D	•	•	•	D	•	•	•	•	•
Maxima (Smart Key)	3				•	•	•	•	D	•	•	•	D	•	•	•	•	•
Murano (Smart Key)		3			•	•	•	•	D	•	•	•	D	•	•	•	•	•
Pathfinder (Smart Key)		3	3	3	•	•	•	•	D	•	•	•	D	•	•	•	•	•

Legend:

DL: OE Door Lock & Alarm Controls

FOB: Sync CAN Interface w /FOB Remote

PK: Transponder & Immobilizer Override

RS: Remote Start & Engine Controls

SS: Integrated Secutirty & Monitoring

ST: Function/Feature Status

DIRECTED.

Type 1

⚠ A relay must be added at the IPDM to prevent starter damage. Refer to page 11 for IPDM wiring and next page for vehicle wiring reference chart. Also refer to Locating Components on page 12 to see where the BCM is located in each vehicle.

Dash Fusebox

Brown 16-pin conn.

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

(+) Parking Lights: pin 1

(+) Parking Lights Output
(-) Ground —————— (-) Ground
(+) 12V —————— (+) 12V
(-) Trunk Status Input
(+) Ignition Status Input
(+) Brake Input
[1] (AC) Tach Input
(-) Door Status Input
[1] E-Brake Status Input

Install a **Diode 1Amp** if the wires from your remote starter are (-) only. **If (+)**, see page 10

Remote Starter

(-) Lock Output
(-) Unlock Output
(+) Starter Output
(-) GWR (Status)
(-) Trunk Output
(-) Ignition 2 Output
(+) Ignition 1 Output
(+) Accessory 1 Output
(-) Starter Output
(+) Accessory 2 Output

(+) Acc. 2 Output: pin 9

13											24
1							9				12

(-) Starter: pin 22
(+) Accessory 1: pin 26
(+) Ignition 1: pin 27
(-) Ignition 2: pin 30

(-) Driver Door Pin: pin 16

13	14	15	**16**	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12

BCM

Gray 24-pin   Black 24-pin

Security Led: pin 18
(-) PTS: pin 1

| 20 | 19 | **18** | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | **1** |
| 40 | 39 | 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | **24** | 23 | 22 | 21 |

(-) Unlock: pin 24

The BCM may look different on your vehicle, but the connections remain the same.

Green 40-pin

| 22 |
| 26 |
| 27 |
| 30 |
| 34 |
| 19 |
| 20 |

(-) Lock Output: pin 34

CAN Low: **Pink**, pin 19
CAN High: **Blue**, pin 20

(-) Trunk Release Output: pin 6

Black 8-pin conn.
(at power liftgate switch)

| 4 | 3 | 2 | 1 |
| 8 | 7 | 6 | 5 |

Black 8-pin conn.
(at power liftgate switch)

HS CAN High: **Tan/Black**: 3
HS CAN Low: **Tan**: 4
Security LED: **Orange/Red**: 10
Security LED: **Yellow/Red**: 11
(+) 12V ———— (+) 12V: **Red**: 13
(-) Ground ———— (-) Ground: **Black**: 14

CUT ✂
To LED

[1] (-) E-Brake Status Output: **Black/White**: 1
(-) Auto Headlamp Shutoff: **Green/Black**: 2
(-) Door Status Output: **Green/White**: 3
(-) Lock Output: **Red/Black**: 4
[1] (AC) Tach Output: **Violet/White**: 5
(+) Brake Status Output: **Gray**: 6
(+) Ignition Status Output: **Gray/Black**: 7
(-) Trunk Status Output: **Yellow/Black**: 10
(-) PTS Output: **Orange/Black**: 11
(-) Unlock Output: **Blue/Red**: 12

OR

(-) Unlock: pin 16
(-) Lock: pin 15

10: **Blue/White**: (-) GWR (Status) Input
8: **Violet**: (+) Starter Input
2: **Blue**: (-) Unlock Input
1: **Green**: (-) Lock Input

14
12
2

RF
Prog. Button
LED

DBALL/ DBALL2

10
4

(+)12V
RX
(-) Ground
TX

D2D
XKD2D65

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

White 16-pin conn.
(at power window main switch)

– – – – Not required in D2D mode.

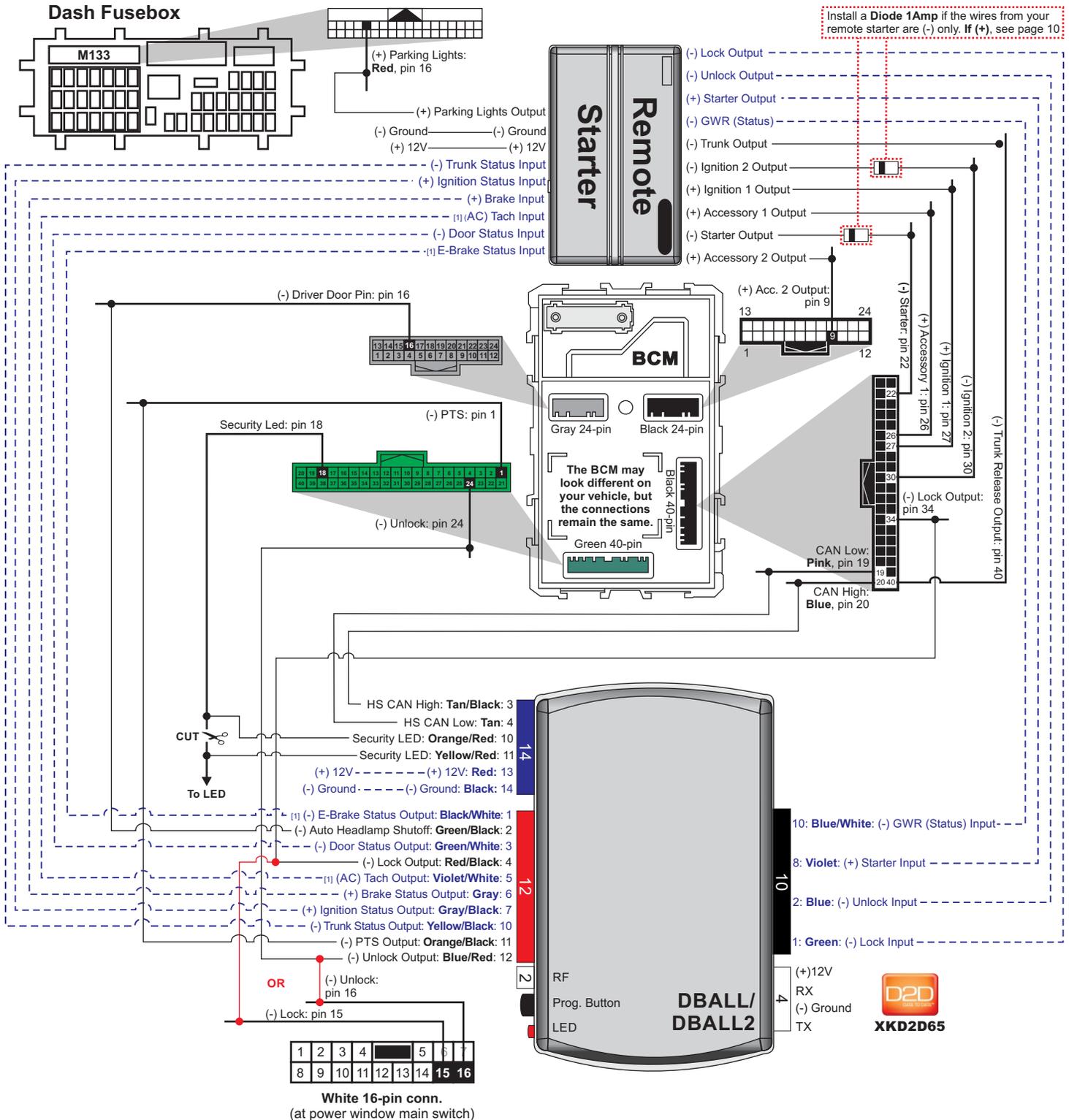[1] This wire is an optional connection required on some remote starters, which do not support signals in D2D.

⚠ All connectors 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
Infiniti JX35 (Smart Key) 2013						
Push-to-Start	Green	1	(-)	At BCM located behind the cluster.	Green	40
HS CAN Low	Pink	19	Data	At BCM located behind the cluster.	Black	40
HS CAN High	Blue	20	Data	At BCM located behind the cluster.	Black	40
Start	White	22	(-)	At BCM located behind the cluster.	Black	40
Ignition 1	Green	27	(+)	At BCM located behind the cluster.	Black	40
Ignition 2	Pink	30	(-)	At BCM located behind the cluster.	Black	40
Accessory 1	White	26	(+)	At BCM located behind the cluster.	Black	40
Unlock Output	Lt. Blue	16	(-)	At Power Window Main Switch.	White	16
Power Liftgate Output	Lt. Green	6	(-)	At Power Liftgate Switch.	Black	8
Lock Output	Brown or White	15	(-)	At Power Window Main Switch.	White	16
Auto Headlamp Shutoff	Tan	16	(-)	At BCM located behind the cluster.	Gray	24
Parking Lights	Red	1	(+)	At dash fusebox located in driver dash.	Brown	16
Security Light	Violet	18	(-)	At BCM located behind the cluster.	Green	40
Accessory 2	Lt. Blue	9	(+)	At BCM located behind the cluster.	Black	24
IPDM - Neutral	White	30	(+)	At IPDM-E/R located under hood fuse box.	White	32
IPDM - Start	Red	2	(-)	At IPDM-E/R located under hood fuse box.	White	32
IPDM - 12V	Red	2	(+)	At IPDM-E/R located under hood fuse box.	Black	2
IPDM - Starter Output	White	1	(+)	At IPDM-E/R located under hood fuse box.	Black	1
Infiniti QX60 (Smart Key) 2014-2015						
Push-to-Start	Green	1	(-)	At BCM located behind the cluster.	Green	40
HS CAN Low	Pink	19	Data	At BCM located behind the cluster.	Black	40
HS CAN High	Blue	20	Data	At BCM located behind the cluster.	Black	40
Start	White or Lt. Blue	22	(-)	At BCM located behind the cluster.	Black	40
Ignition 1	Green	27	(+)	At BCM located behind the cluster.	Black	40
Ignition 2	Pink	30	(-)	At BCM located behind the cluster.	Black	40
Accessory 1	White	26	(+)	At BCM located behind the cluster.	Black	40
Unlock Output	Lt. Blue	16	(-)	At Power Window Main Switch.	White	16
Power Liftgate Output	Lt. Green	6	(-)	At Power Liftgate Switch.	Black	8
Lock Output	Brown or White	15	(-)	At Power Window Main Switch.	White	16
Auto Headlamp Shutoff	Tan	16	(-)	At BCM located behind the cluster.	Gray	24
Parking Lights	Red	1	(+)	At dash fusebox located in driver dash.	Brown	16
Security Light	Violet	18	(-)	At BCM located behind the cluster.	Green	40
Accessory 2	Blue	9	(+)	At BCM located behind the cluster.	Black	24
IPDM - Neutral	White	30	(+)	At IPDM-E/R located under hood fuse box.	White	32
IPDM - Start	Red	2	(-)	At IPDM-E/R located under hood fuse box.	White	32
IPDM - 12V	Red	2	(+)	At IPDM-E/R located under hood fuse box.	Black	2
IPDM - Starter Output	White	1	(+)	At IPDM-E/R located under hood fuse box.	Black	1

Type 2

⚠️ A relay must be added at the IPDM to prevent starter damage. Refer to page 11 for IPDM wiring and next page for vehicle wiring reference chart. Also refer to Locating Components on page 12 to see where the BCM is located in each vehicle.

Dash Fusebox

M133

Install a **Diode 1Amp** if the wires from your remote starter are (-) only. **If (+)**, see page 10

(+) Parking Lights: **Red**, pin 16

(+) Parking Lights Output

(-) Ground ———— (-) Ground
(+) 12V ———— (+) 12V

Remote Starter

(-) Lock Output
(-) Unlock Output
(+) Starter Output
(-) GWR (Status)
(-) Trunk Output
(-) Ignition 2 Output
(+) Ignition 1 Output
(+) Accessory 1 Output
(-) Starter Output
(+) Accessory 2 Output

(-) Trunk Status Input
(+) Ignition Status Input
(+) Brake Input
[1] (AC) Tach Input
(-) Door Status Input
[1] E-Brake Status Input

(-) Driver Door Pin: pin 16

13 14 15 **16** 17 18 19 20 21 22 23 24
1 2 3 4 5 6 7 8 9 10 11 12

(+) Acc. 2 Output: pin 9

13   24
        9
1   12

(-) Starter: pin 22
(+) Accessory 1: pin 26
(+) Ignition 1: pin 27
(-) Ignition 2: pin 30
(-) Trunk Release Output: pin 40

BCM

Gray 24-pin   Black 24-pin

Security Led: pin 18

(-) PTS: pin 1

20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 **1**
40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 **24** 23 22 21

The BCM may look different on your vehicle, but the connections remain the same.

Green 40-pin

(-) Unlock: pin 24

22
26
27
30
34
19 20 40

(-) Lock Output: pin 34

CAN Low: **Pink**, pin 19
CAN High: **Blue**, pin 20

CUT ✂

To LED

HS CAN High: **Tan/Black**: 3
HS CAN Low: **Tan**: 4
Security LED: **Orange/Red**: 10
Security LED: **Yellow/Red**: 11
(+) 12V – – – (+) 12V: **Red**: 13
(-) Ground – – – (-) Ground: **Black**: 14

14

[1] (-) E-Brake Status Output: **Black/White**: 1
(-) Auto Headlamp Shutoff: **Green/Black**: 2
(-) Door Status Output: **Green/White**: 3
(-) Lock Output: **Red/Black**: 4
[1] (AC) Tach Output: **Violet/White**: 5
(+) Brake Status Output: **Gray**: 6
(+) Ignition Status Output: **Gray/Black**: 7
(-) Trunk Status Output: **Yellow/Black**: 10
(-) PTS Output: **Orange/Black**: 11
(-) Unlock Output: **Blue/Red**: 12

12

OR

(-) Unlock: pin 16

(-) Lock: pin 15

10: **Blue/White**: (-) GWR (Status) Input
8: **Violet**: (+) Starter Input
2: **Blue**: (-) Unlock Input
1: **Green**: (-) Lock Input

2

RF
Prog. Button
LED

DBALL/ DBALL2

(+)12V
RX
(-) Ground
TX

4

D2D
XKD2D65

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

White 16-pin conn.
(at power window main switch)

– – – – Not required in D2D mode.

[1] This wire is an optional connection required on some remote starters, which do not support signals in D2D.

⚠️ All connectors 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
Infiniti Q50 (Smart Key) 2014-2015						
Push-to-Start	Red	1	(-)	At BCM located in passenger kick.	Green	40
HS CAN Low	Pink	19	Data	At BCM located in passenger kick.	Black	40
HS CAN High	Blue	20	Data	At BCM located in passenger kick.	Black	40
Start	Red or Lt. Blue	22	(-)	At BCM located in passenger kick.	Black	40
Ignition 1	White/Black	27	(+)	At BCM located in passenger kick.	Black	40
Ignition 2	Black	30	(-)	At BCM located in passenger kick.	Black	40
Accessory 1	Black	26	(+)	At BCM located in passenger kick.	Black	40
Unlock Output	Yellow	16	(-)	At Power Window Main Switch.	White	16
Trunk Release Output	Blue	40	(-)	At BCM located in passenger kick.	Black	40
Lock Output	Violet	15	(-)	At Power Window Main Switch.	White	16
Auto Headlamp Shutoff	Violet	16	(-)	At BCM located in passenger kick.	Gray	24
Parking Lights	Red	16	(+)	At dash fusebox located in driver kick.	White	40
Security Light	Blue	18	(-)	At BCM located in passenger kick.	Green	40
Accessory 2	Lt. Blue	9	(+)	At BCM located in passenger kick.	Black	24
IPDM - Neutral	White	30	(+)	At IPDM-E/R located under hood fuse box.	White	32
IPDM - Start	Blue	2	(-)	At IPDM-E/R located under hood fuse box.	White	32
IPDM - 12V	Red	2	(+)	At IPDM-E/R located under hood fuse box.	Black	2
IPDM - Starter Output	White	1	(+)	At IPDM-E/R located under hood fuse box.	Black	1

Type 3

⚠️ A relay must be added at the IPDM to prevent starter damage. Refer to page 11 for IPDM wiring and next page for vehicle wiring reference chart. Also refer to Locating Components on page 12 to see where the BCM is located in each vehicle.

Dash Fusebox

Brown 16-pin conn.

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

Install a **Diode 1Amp** if the wires from your remote starter are (-) only. **If (+)**, see page 10

(+) Parking Lights: pin 1

(+) Parking Lights Output
(-) Ground ———— (-) Ground
(+) 12V ———— (+) 12V

Remote Starter

(-) Lock Output
(-) Unlock Output
(+) Starter Output
(-) GWR (Status)
(-) Trunk Output
(-) Ignition 2 Output
(+) Ignition 1 Output
(+) Accessory 1 Output
(-) Starter Output
(+) Accessory 2 Output

(-) Trunk Status Input
(+) Ignition Status Input
(+) Brake Input
[1] (AC) Tach Input
(-) Door Status Input
[1] E-Brake Status Input

(-) Driver Door Pin: pin 16

(+) Acc. 2 Output: pin 9

| 13 | | | | | | | | | | | 24 |
| 1 | | | | | | | | 9 | | | 12 |

(-) Starter: pin 22
(+) Accessory 1: pin 26
(+) Ignition 1: pin 27
(-) Ignition 2: pin 30

| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

Security Led: pin 18   (-) PTS: pin 1

BCM

Gray 24-pin   Black 24-pin

| 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 40 | 39 | 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 |

[2] (-) Unlock: pin 24

The BCM may look different on your vehicle, but the connections remain the same.

Green 40-pin

Black 40-pin

22
26
27
30
34

[3] (-) Lock: pin 34

CAN Low: **Pink**, pin 19
CAN High: **Blue**, pin 20

19 20 40

(-) Trunk Release Output: pin 40
(Nissan Altima & Maxima Only)

OR

HS CAN High: **Tan/Black**: 3
HS CAN Low: **Tan**: 4
Security LED: **Orange/Red**: 10
Security LED: **Yellow/Red**: 11
(+) 12V – – – – (+) 12V: **Red**: 13
(-) Ground – – – – (-) Ground: **Black**: 14

CUT ✂

To LED

[1] (-) E-Brake Status Output: **Black/White**: 1
(-) Auto Headlamp Shutoff: **Green/Black**: 2
(-) Door Status Output: **Green/White**: 3
[3] (-) Lock Output: **Red/Black**: 4
[1] (AC) Tach Output: **Violet/White**: 5
(+) Brake Status Output: **Gray**: 6
(+) Ignition Status Output: **Gray/Black**: 7
(-) Trunk Status Output: **Yellow/Black**: 10
(-) PTS Output: **Orange/Black**: 11
[2] (-) Unlock Output: **Blue/Red**: 12

Black 8-pin conn.
(at power liftgate switch)

| 4 | 3 | 2 | 1 |
| 8 | 7 | 6 | 5 |

(-) Trunk Release Output: pin 6
(Nissan Pathfinder Only)

10: **Blue/White**: (-) GWR (Status) Input
8: **Violet**: (+) Starter Input
2: **Blue**: (-) Unlock Input
1: **Green**: (-) Lock Input

DBALL/ DBALL2

RF
Prog. Button
LED

(+)12V
RX
(-) Ground
TX

D2D DATA TO DATA
XKD2D65

– – – – Not required in D2D mode.

[1] This wire is an optional connection required on some remote starters, which do not support signals in D2D.
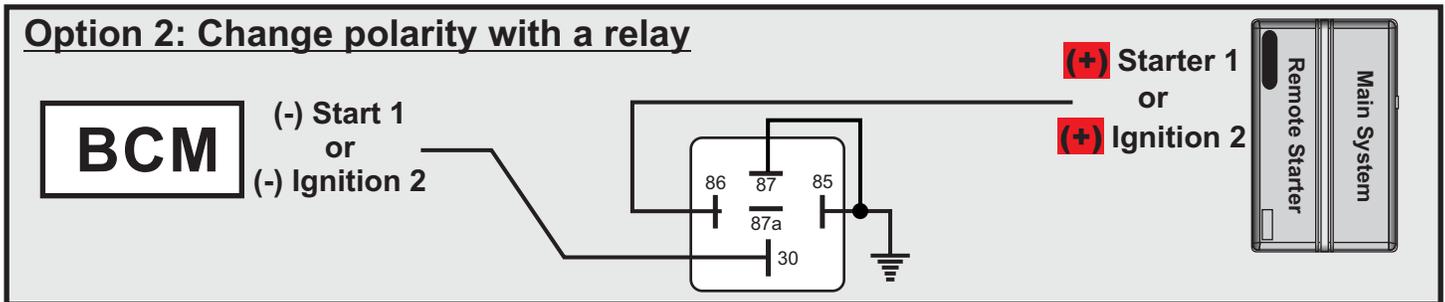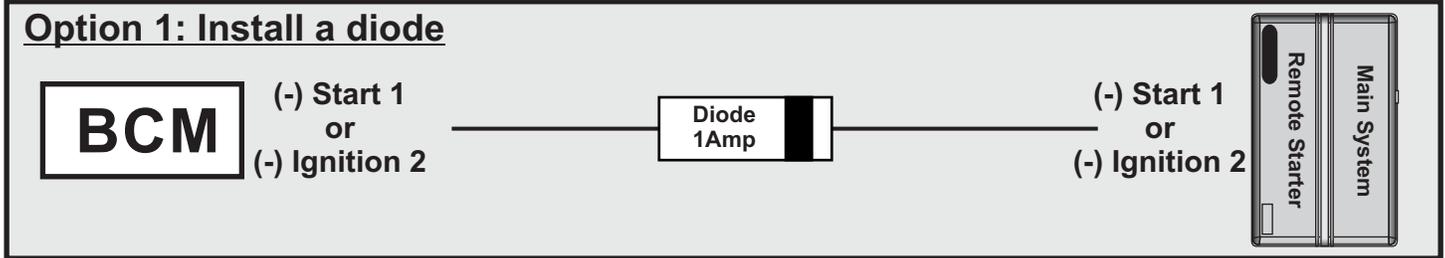
[2] On models with LF and RF anti-pinch windows, it is green (double -) at the power window main switch, white 16-pin plug, pin 15.

[3] On models with LF and RF anti-pinch windows, it is pink (-) at the power window main switch, white 16-pin plug, pin 3.

⚠️ All connectors 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
Nissan Altima (Smart Key) 2013-2016						
Push-to-Start	Red	1	(-)	At BCM located behind the cluster.	Green	40
HS CAN Low	Pink	19	Data	At BCM located behind the cluster.	Black	40
HS CAN High	Blue	20	Data	At BCM located behind the cluster.	Black	40
Start	Brown	22	(-)	At BCM located behind the cluster.	Black	40
Ignition 1	White	27	(+)	At BCM located behind the cluster.	Black	40
Ignition 2	Green	30	(-)	At BCM located behind the cluster.	Black	40
Accessory 1	Red	26	(+)	At BCM located behind the cluster.	Black	40
Unlock Output [1]	Lt. Blue (with LF only anti-pinch window)	24	(-)	At BCM located behind the cluster.	Green	40
Power Liftgate Output	Brown	40	(-)	At BCM located behind the cluster.	Black	40
Lock Output [2]	Pink (with LF only anti-pinch window)	34	(-)	At BCM located behind the cluster.	Black	40
Auto Headlamp Shutoff	Brown	16	(-)	At BCM located behind the cluster.	Gray	24
Parking Lights	Red	1	(+)	At dash fusebox located in driver dash.	Brown	16
Security Light	Green	18	(-)	At BCM located behind the cluster.	Green	40
Accessory 2	Pink	9	(+)	At BCM located behind the cluster.	Black	24
IPDM - Neutral	White	30	(+)	At IPDM-E/R located under hood fuse box.	White	32
IPDM - Starter (-)	Red	2	(-)	At IPDM-E/R located under hood fuse box.	White	32
IPDM - 12V	Red	2	(+)	At IPDM-E/R located under hood fuse box.	Black	2
IPDM - Starter Output	Red	1	(+)	At IPDM-E/R located under hood fuse box.	Black	1
Nissan Pathfinder (Smart Key) 2013-2015 & Nissan Murano (Smart Key) 2015						
Push-to-Start	Green	1	(-)	At BCM located behind the cluster.	Green	40
HS CAN Low	Pink or Black	19	Data	At BCM located behind the cluster.	Black	40
HS CAN High	Blue	20	Data	At BCM located behind the cluster.	Black	40
Start	White or Lt. Blue	22	(-)	At BCM located behind the cluster.	Black	40
Ignition 1	Green	27	(+)	At BCM located behind the cluster.	Black	40
Ignition 2	Pink	30	(-)	At BCM located behind the cluster.	Black	40
Accessory 1	White	26	(+)	At BCM located behind the cluster.	Black	40
Unlock Output [3]	Lt. Blue (with LF only anti-pinch window)	24	(-)	At BCM located behind the cluster.	Green	40
Trunk Release Output	Lt. Green	6	(-)	At Power Liftgate Switch.	Green	8
Lock Output [4]	Brown (with LF only anti-pinch window)	19	(-)	At BCM located behind the cluster.	Green	40
Auto Headlamp Shutoff	Tan	16	(-)	At BCM located behind the cluster.	Gray	24
Parking Lights	Red	1	(+)	At dash fusebox located in driver dash.	Brown	16
Security Light	Violet	18	(-)	At BCM located behind the cluster.	Green	40
Accessory 2	Blue	9	(+)	At BCM located behind the cluster.	Black	24
IPDM - Neutral	White	30	(+)	At IPDM-E/R located under hood fuse box.	White	32
IPDM - Starter (-)	Red	2	(-)	At IPDM-E/R located under hood fuse box.	White	32
IPDM - 12V	Red	2	(+)	At IPDM-E/R located under hood fuse box.	Black	2
IPDM - Starter (+)	White	1	(+)	At IPDM-E/R located under hood fuse box.	Black	1

[1] On models with LF and RF anti-pinch windows, it is Green (double -) at the power window main switch, white 16-pin plug, pin 15.

[2] On models with LF and RF anti-pinch windows, it is Pink (-) at the power window main switch, white 16-pin plug, pin 3.

[3] On models with LF and RF anti-pinch windows, it is Lt. Blue (double -) at the power window main switch, white 16-pin plug, pin 15.

[4] On models with LF and RF anti-pinch windows, it is Brown (-) at the power window main switch, white 16-pin plug, pin 3.

Vehicle Wiring Reference Chart (Type 3)

Wire Information				Connector Information		
Function	Color	Pin	Polarity	Location	Color	Pins
Nissan Maxima (Smart Key) 2016						
Push-to-Start	Red	1	(-)	At BCM located behind the cluster.	Green	40
HS CAN Low	Pink	19	Data	At BCM located behind the cluster.	Black	40
HS CAN High	Blue	20	Data	At BCM located behind the cluster.	Black	40
Start	Violet	22	(-)	At BCM located behind the cluster.	Black	40
Ignition 1	White	27	(+)	At BCM located behind the cluster.	Black	40
Ignition 2	Green	30	(-)	At BCM located behind the cluster.	Black	40
Accessory 1	Red	26	(+)	At BCM located behind the cluster.	Black	40
Unlock Output [1]	Lt. Blue (with LF only anti-pinch window)	24	(-)	At BCM located behind the cluster.	Green	40
Power Liftgate Output	Brown	40	(-)	At BCM located behind the cluster.	Black	40
Lock Output [2]	Pink (with LF only anti-pinch window)	34	(-)	At BCM located behind the cluster.	Black	40
Auto Headlamp Shutoff	Pink	16	(-)	At BCM located behind the cluster.	Gray	24
Parking Lights	Red	1	(+)	At dash fusebox located in driver dash.	Brown	16
Security Light	Green	18	(-)	At BCM located behind the cluster.	Green	40
Accessory 2	Brown	9	(+)	At BCM located behind the cluster.	Black	24
IPDM - Neutral	White	30	(+)	At IPDM-E/R located under hood fuse box.	White	32
IPDM - Starter (-)	Red	2	(-)	At IPDM-E/R located under hood fuse box.	White	32
IPDM - 12V	Red	2	(+)	At IPDM-E/R located under hood fuse box.	Black	2
IPDM - Starter Output	Red	1	(+)	At IPDM-E/R located under hood fuse box.	Black	1

[1] On models with LF and RF anti-pinch windows, it is Green (double -) at the power window main switch, white 16-pin plug, pin 15.
[2] On models with LF and RF anti-pinch windows, it is Pink (-) at the power window main switch, white 16-pin plug, pin 3.

Start 1 & Ignition 2 Connections

Start 1 and Ignition 2 wires from the vehicle are <u>negative</u> trigger:
- Add a **diode** as shown *(Option 1)* if your remote starter has **negative** Start or Ignition output available.
- Add a **relay** as shown *(Option 2)* if your remote starter only has **positive** Start or Ignition output available.

Option 1: Install a diode

BCM

(-) Start 1 or (-) Ignition 2

Diode 1Amp

(-) Start 1 or (-) Ignition 2

Remote Starter | Main System

Option 2: Change polarity with a relay

BCM

(-) Start 1 or (-) Ignition 2

86   87   85
87a
30

(+) Starter 1 or (+) Ignition 2

Remote Starter | Main System

IPDM-E/R Wiring

Please refer to page 12 for IPDM locations

⚠ This relay is **REQUIRED** in the installation to avoid permanent damage to the vehicle starter. It also **EXTREMELY IMPORTANT** to protect the relay from water exposure.

UNDER HOOD FUSE BOX (IPDM-E/R)
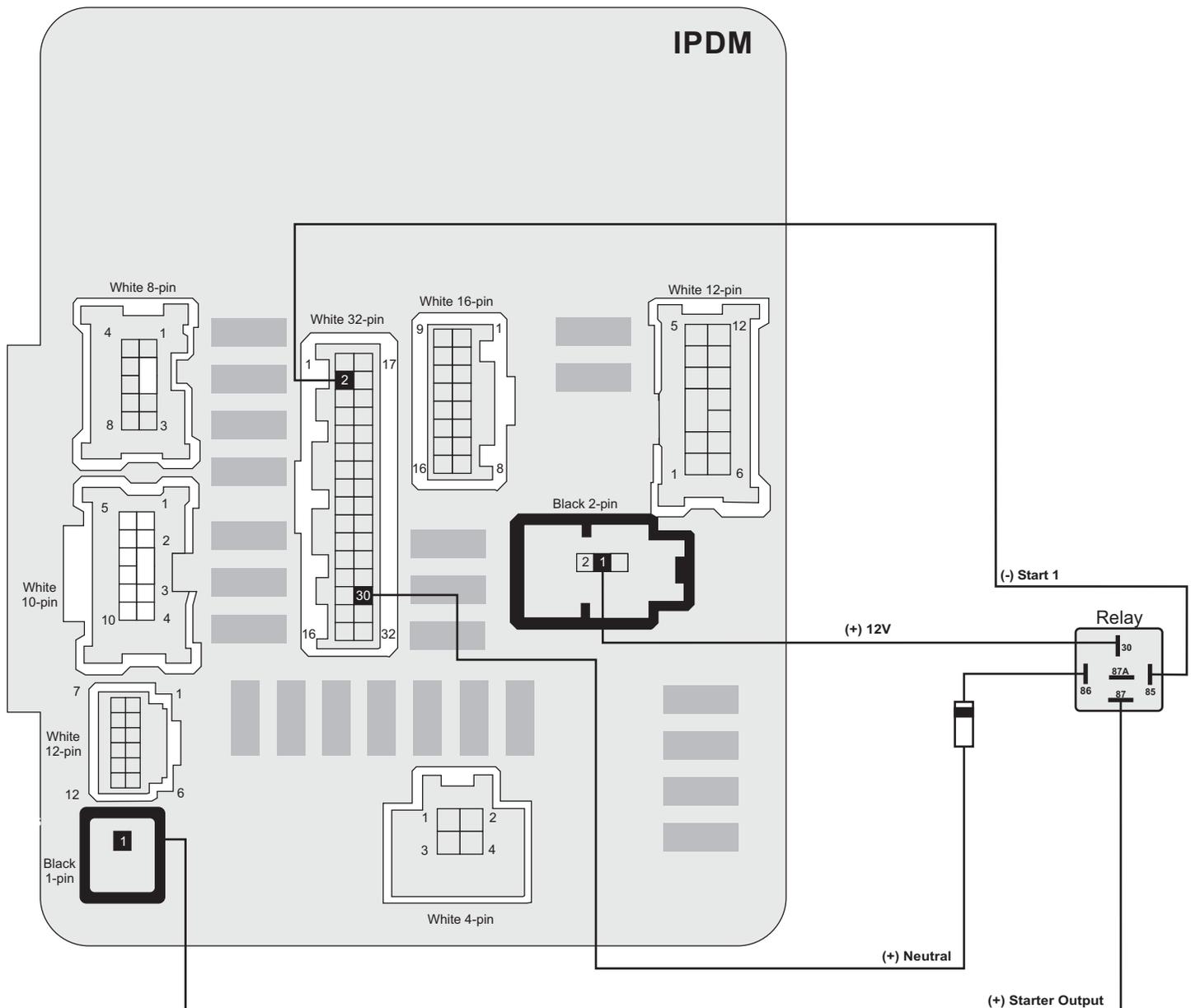
How to test for Neutral Safety Circuit on pin 30 of the White 32-pin plug at the BIPDM (Multimeter)

Automatic Transmission

Use a multimeter to verify all 3 states of the neutral safety circuit:
- Key in, Ign. OFF: 0 Volt.
- Key in, Ign. ON, Transmission in Park or Neutral: 12 Volts.
- Key in, Ign. ON, Transmission NOT in Park or Neutral: 0 Volt.

Locating Components

BCM (behind cluster)
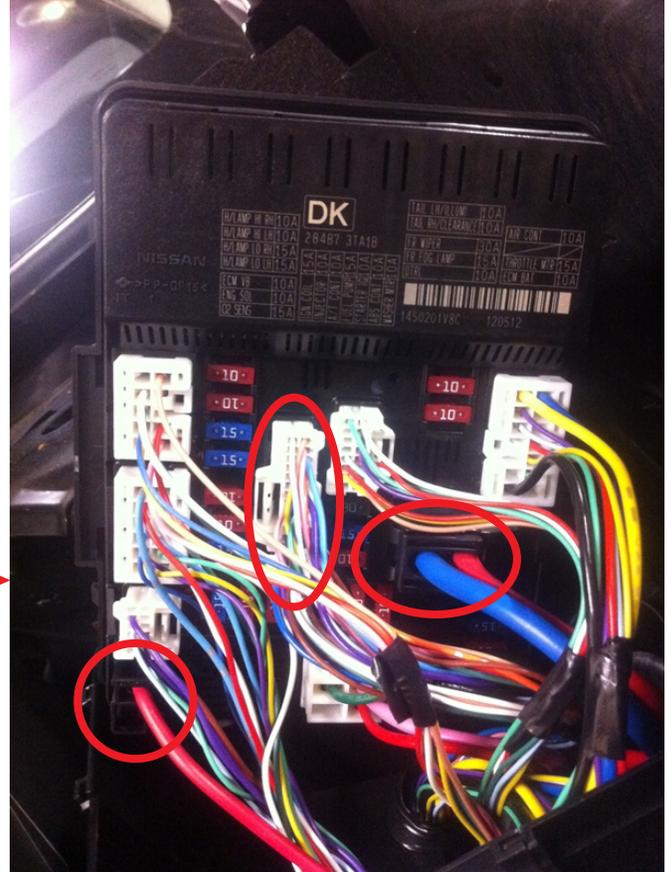
IPDM-E/R (under hood, driver side)

IPDM-E/R

Module Programming

⚠ Refer to the LED Diagnostics section on page 16 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.
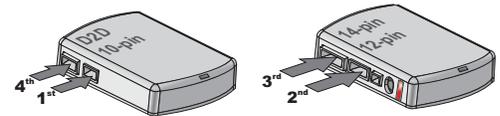
OR

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.

---
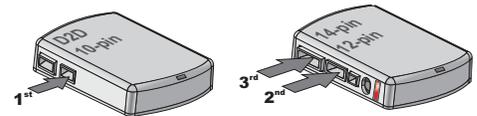
1 Wait until the LED turns ON solid red.

Note: To skip the transponder programming and use convenience features only, press the programming button 5 times. The LED will turn orange then proceed to step 2.

Solid

---

2 **Important:** Do NOT press the brake pedal.

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

If the module has not been programmed, the LED flashes throughout the process. This can take up to 15 seconds.

If the module is already programmed, the LED turns OFF when the ignition is turned ON.

Do NOT press the brake pedal

START STOP ENGINE

Press x2 & Flashes

---

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

Solid x3 secs & Off

---

4 Press the PTS button once to turn the ignition OFF.

Press x1 START STOP ENGINE

You have successfully completed the module programming sequence.

Page 14

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 **OR**

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.
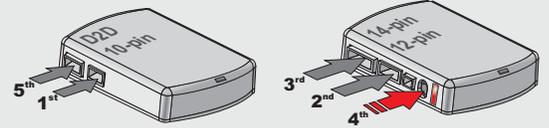
W2W Installation

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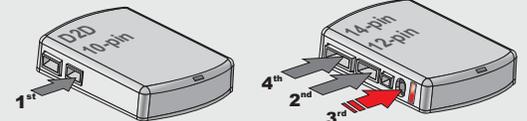
2 Wait 3 seconds until the LED turns ON solid orange then release the programming button. The LED then turns ON solid red.

Solid & Release & Solid

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 **OR**

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.
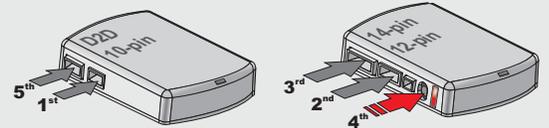
W2W Installation

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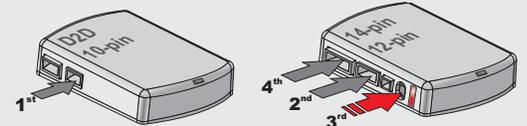
2 Wait 3 seconds until the LED turns ON solid orange, and wait 10 more seconds until the LED starts to flash orange and red.

Solid & Flashes

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

Release & Solid

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/Options	Description
1	RFTD Output Type	**1. Disabled***	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	Door Lock Control	**1. No Control ***	The remote starter door lock wires must be connected in the vehicle.
		2. Controlled on CAN bus (EU cars)	Works for most European vehicles **
		3. Controlled on CAN bus (US cars)	Works for most North American vehicles **
3	Parking Light Control	**1. OFF***	No CAN data parking light control.
		2. Controlled on CAN bus	Parking control using CAN data.
4	OEM Alarm Control	**1.No Control***	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. Permanently disable	Permently disable the OEM Alarm from functioning when installing an hybrind security remote start.
		3. Permanently enable	Permently enable the OEM Alarm. This would require analog arm and disarm to be pinned into the BCM.

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.

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LED Diagnostics & Troubleshooting

LED	Description	Troubleshooting
Module Programming		
Off	Module has no power.	Make sure that 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.
Flashes red	Programming in process, do not turn key OFF.	Normal operation
Solid red x3 sec	Programming error.	A programming error can occur if : - the bypass has not been detected in the allotted time - the VIN of the car was needed and hasn't been detected in the allotted time. Verify your connections, reset the module and try to program again.
Solid green x3 sec	Module successfully programmed.	Normal operation
Active Ground While Running		
Flashes green	Ground out (GWR) command is received.	Otherwise, the Ground While Running (status) signal was lost or was never received by the module. Commands can come from RF, D2D or W2W.
Flashes red & orange	IGNITION ON command received.	Otherwise, the ignition signal was not received by the module. In a W2W install, it will show only if the ignition input wire is used.
Flashes green	START ON command received.	Otherwise, the start signal was not received by the module. In a W2W install, it will show only if the ignition input wire is used.
D2D and W2W Commands		
Flashes orange x1	LOCK command received.	If the bypass module fails to flash, it means the module did not receive the signal. Commands can come from RF, D2D or W2W.
Flashes orange x2	UNLOCK command received.	
Flashes orange x3	TRUNK command received.	
Flashes orange x4	AUX1 command received.	
Flashes orange x5	AUX2 command received.	

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

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

Press remote start button*

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

Press Unlock button on either remote* **OR**

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

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

Enter vehicle with Key Fob

4 **Important:** Do **NOT** press the brake pedal.

Press the PTS button **once** to turn the ignition **ON**. Wait for the LED indicator around the PTS button to illuminate prior to proceeding to step 5.

Do NOT press brake pedal

1X ENGINE START STOP **PUSH**

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

Ready to drive off
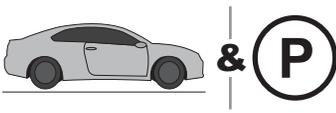
* Your aftermarket remote may differ from the model shown in the illustrations.

Pit Stop Mode

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

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

& (P)

Stop & put vehicle in Park (P)

2 Press the button to remote start the vehicle.*

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

Press remote start button* **&** ENGINE START STOP

Flashes

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

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

Exit vehicle with Key Fob

* 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 x3 + AUX	Press ƒ 3 times, then AUX to activate the panic mode.
ƒ x1 + ⟳	Press ƒ once, then ⟳ to reset the remote starter runtime.

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

Notes

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