




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

Door lock and transponder interface for many late model Cadillac, GM, Hummer, Pontiac, Saturn and Suzuki vehicles. Features include RAP shutdown, door trigger sensing, and tach output.

 **RFLCHGM** Loop is recommended and sold separately. Optional T-Harness **THGM610** is compatible with some vehicles (check VAG) but not compatible with RFLCHGM.



Important:

This guide is compatible with the GM6 firmware version 4.06 and higher.

We recommend using the Wiring Diagram (**with** RFLCHGM) on page 3, especially if the vehicle is not used daily. The Wiring Diagrams (**without** RFLCHGM) will draw 15-20mA more on the vehicle, when it is parked and the engine is turned off.

Using the Wiring Diagrams (**without** RFLCHGM) can deactivate OEM remote starter functionality, OEM fob and smart phone, due to the accessory wire opening. To preserve OEM remote starter functionality, use the Wiring Diagram (**with** RFLCHGM) on page 3.



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Vehicle Application Guide

The table below lists the vehicles and features which are compatible with this product. Refer to the following pages for more information on installation wiring, programming and troubleshooting for these vehicles.

Vehicles	Year											Feature																					
	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	PK-Immobilizer Bypass-RFID No Key Req'd	AV-Panic Mode Activation	CC-Heated Seats Activation	DL-Arm Factory Security	DL-Disarm Factory Security	DL-Door Lock Control	DL-Door Unlock	DL-Driver Priority Unlock	DL-Hatch Glass Release	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 Driver Door Pin	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		
Buick																																	
Enclave	*	*	*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	*	D	*	*	D	*	D
Lucerne ^[2]						*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Cadillac																																	
CTS ^[2]			*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
CTS Coupe ^[2]			*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
CTS Wagon ^[2]			*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
DTS						*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Escalade		*	*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
SRX		*	*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Chevrolet																																	
Avalanche			*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Caprice			*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Captiva Sport ^[1]		*	*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Equinox						*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Express Van		*	*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Impala ^[2]			*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Monte Carlo						*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Silverado 1500				*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Silverado 2500/3500		*	*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Suburban		*	*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Tahoe		*	*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Traverse	*	*	*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
GMC																																	
Acadia	*	*	*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Savana	*	*	*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Sierra 1500			*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Sierra 2500/3500		*	*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Yukon		*	*	*	*	*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Hummer																																	
H2						*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Pontiac																																	
G8						*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Torrent ^[1]						*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Saturn																																	
Outlook						*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
VUE						*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	
Suzuki																																	
XL7						*	*	*	*	*	*	*	D	*	*	*	*	*	*	*	*	*	D	*	*	*	D	*	*	D	*	D	

[1] NOT compatible with THGM610 T-Harness

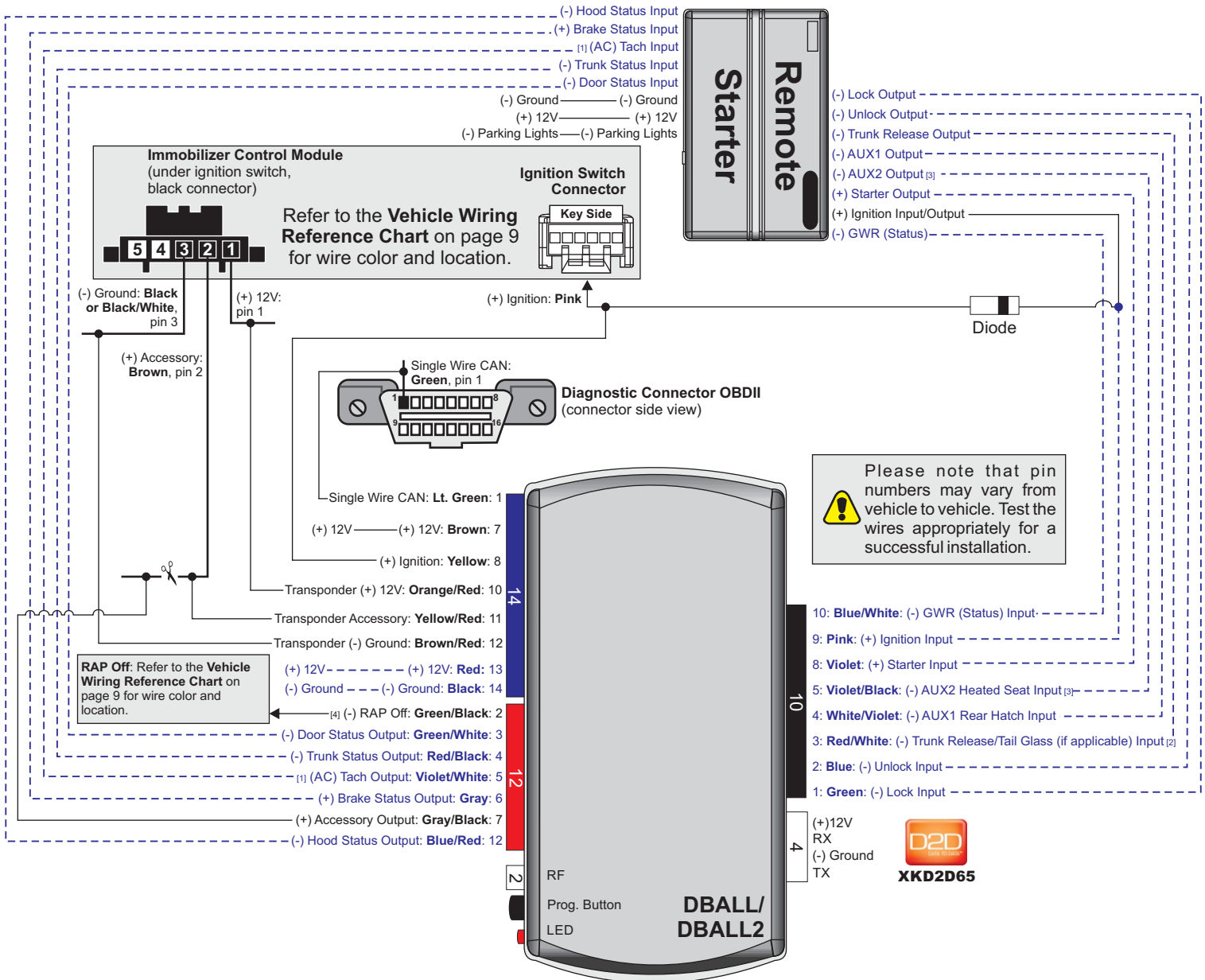
[2] The Cadillac CTS, Chevrolet Impala and Buick Lucerne require the trunk feature to be set to Electric Rear Hatch option for the trunk to work.

Legend:
D: Data-to-Data (D2D)
*: D2D and W2W

PK: Transponder & Immobilizer Override
AV: Horn & Lights Controls
CC: Comfort & Convenience Controls
DL: OE Door Lock & Alarm Controls
RS: Remote Start & Engine Controls
SS: Integrated Security & Monitoring
ST: Function/Feature Status

Installation Type 2 (without RFLCHGM)

WARNING!
We recommend using the Wiring Diagram (**with** RFLCHGM) on page 3, especially if the vehicle is not used daily. The Wiring Diagram (**without** RFLCHGM) will draw 15-20mA more on the vehicle, when it is parked and the engine is turned off.
Using Wiring Diagrams (**without** RFLCHGM) can deactivate OEM remote starter functionality, OEM fob and smart phones, due to the accessory wire opening. To preserve OEM remote starter functionality, use the Wiring Diagram (**with** RFLCHGM) on page 3.



---- 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] Trunk Release can be on TRUNK or AUX1 depending on the vehicle, see **Features & Option List** section to change its operation.

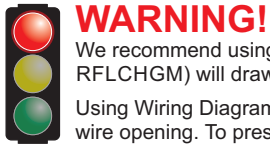
[3] Heated seat feature must be enable, see **Features & Option List** section.

Do not use **GWR (Status)** wire to activate heated seat feature. This wire needs to see a pulse after start for proper operation.

[4] If the RAP Off wire is not connected, the radio will turn OFF but some lights will remain ON in the central console for 10 minutes. Connect this wire (Green/Black, pin 2/12) to the driver door sense trigger (Gray/Black) to avoid this issue. **RAP Off:** Refer to page 9 for wire color and location.

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

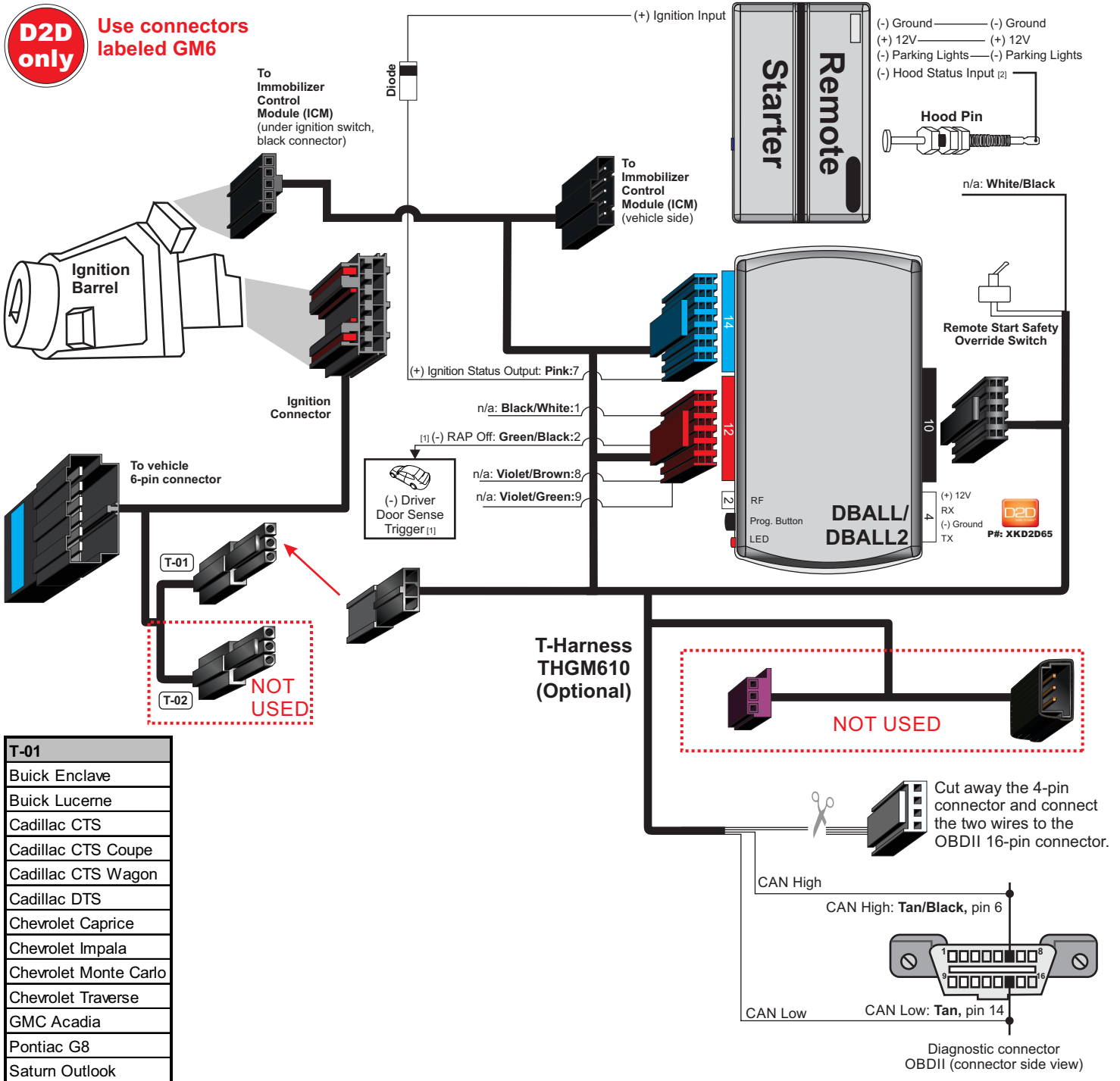
Installation Type 3a, T-Harness THGM610 Rev. 1 & 2, T-01 (without RFLCHGM)



WARNING!

We recommend using the Wiring Diagram (**with** RFLCHGM) on page 3, especially if the vehicle is not used daily. The Wiring Diagram (**without** RFLCHGM) will draw 15-20mA more on the vehicle, when it is parked and the engine is turned off.

Using Wiring Diagrams (**without** RFLCHGM) can deactivate OEM remote starter functionality, OEM fob and smart phones, due to the accessory wire opening. To preserve OEM remote starter functionality, use the Wiring Diagram (**with** RFLCHGM) on page 3.



T-01
Buick Enclave
Buick Lucerne
Cadillac CTS
Cadillac CTS Coupe
Cadillac CTS Wagon
Cadillac DTS
Chevrolet Caprice
Chevrolet Impala
Chevrolet Monte Carlo
Chevrolet Traverse
GMC Acadia
Pontiac G8
Saturn Outlook

[1] If the RAP Off wire is not connected, the radio will turn OFF but some lights will remain ON in the central console for 10 minutes. Connect this wire (Green/Black, pin 2/12) to the driver door sense trigger (Gray/Black) to avoid the issue. **RAP Off:** Refer to page 9 for wire color and location.

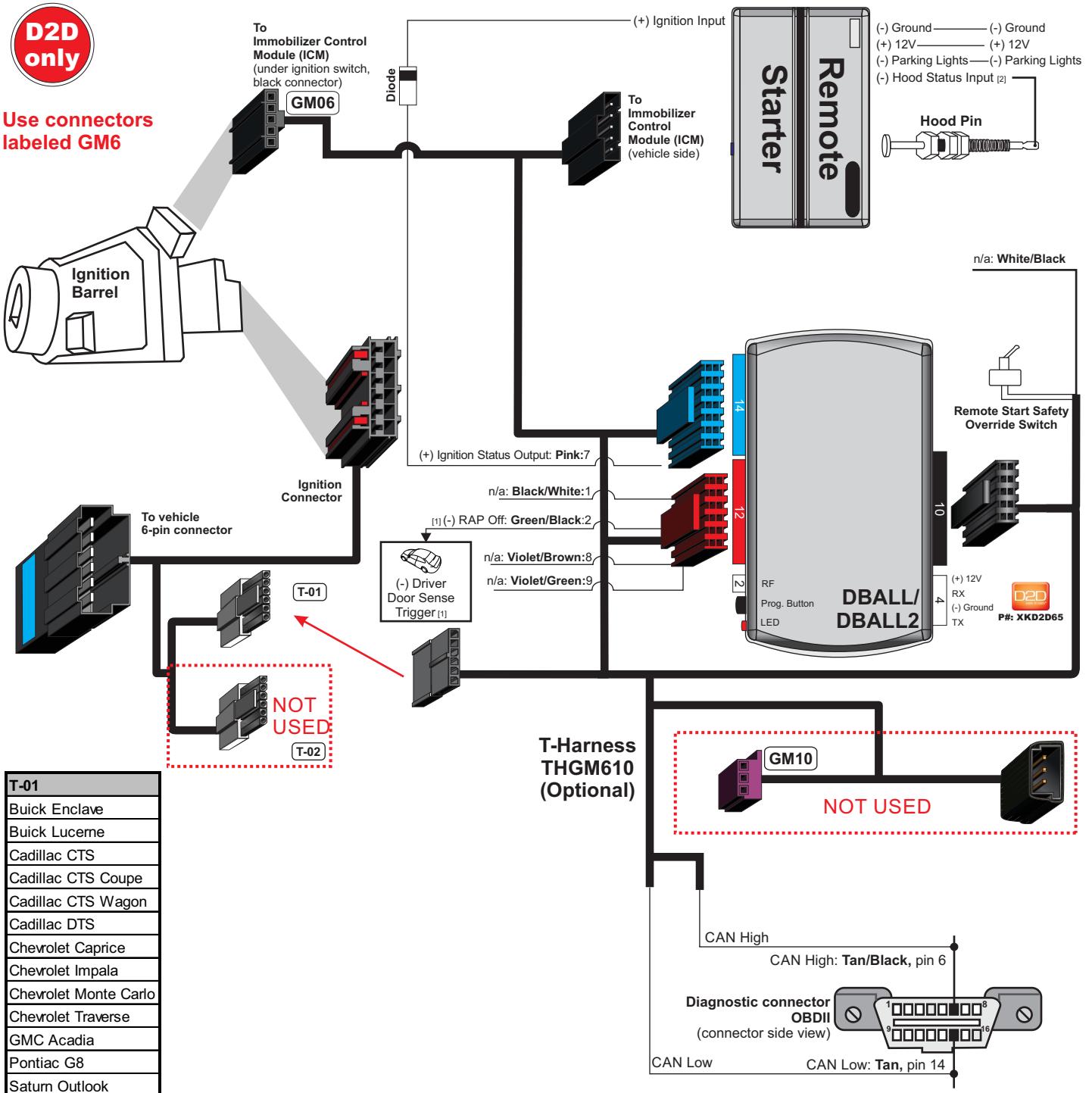
[2] Only required if no OEM hood pin.

Installation Type 3b, T-Harness THGM610 Rev. 3, T-01 (without RFLCHGM)

WARNING!

We recommend using the Wiring Diagram (**with** RFLCHGM) on page 3, especially if the vehicle is not used daily. The Wiring Diagram (**without** RFLCHGM) will draw 15-20mA more on the vehicle, when it is parked and the engine is turned off.

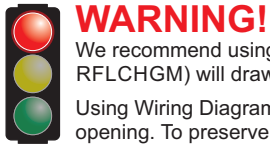
Using Wiring Diagrams (**without** RFLCHGM) can deactivate OEM remote starter functionality, OEM fob and smart phones, due to the accessory wire opening. To preserve OEM remote starter functionality, use the Wiring Diagram (**with** RFLCHGM) on page 3.



[1] If the RAP Off wire is not connected, the radio will turn OFF but some lights will remain ON in the central console for 10 minutes. Connect this wire (Green/Black, pin 2/12) to the driver door sense trigger (Gray/Black) to avoid the issue. **RAP Off:** Refer to page 9 for wire color and location.

[2] Only required if no OEM hood pin.

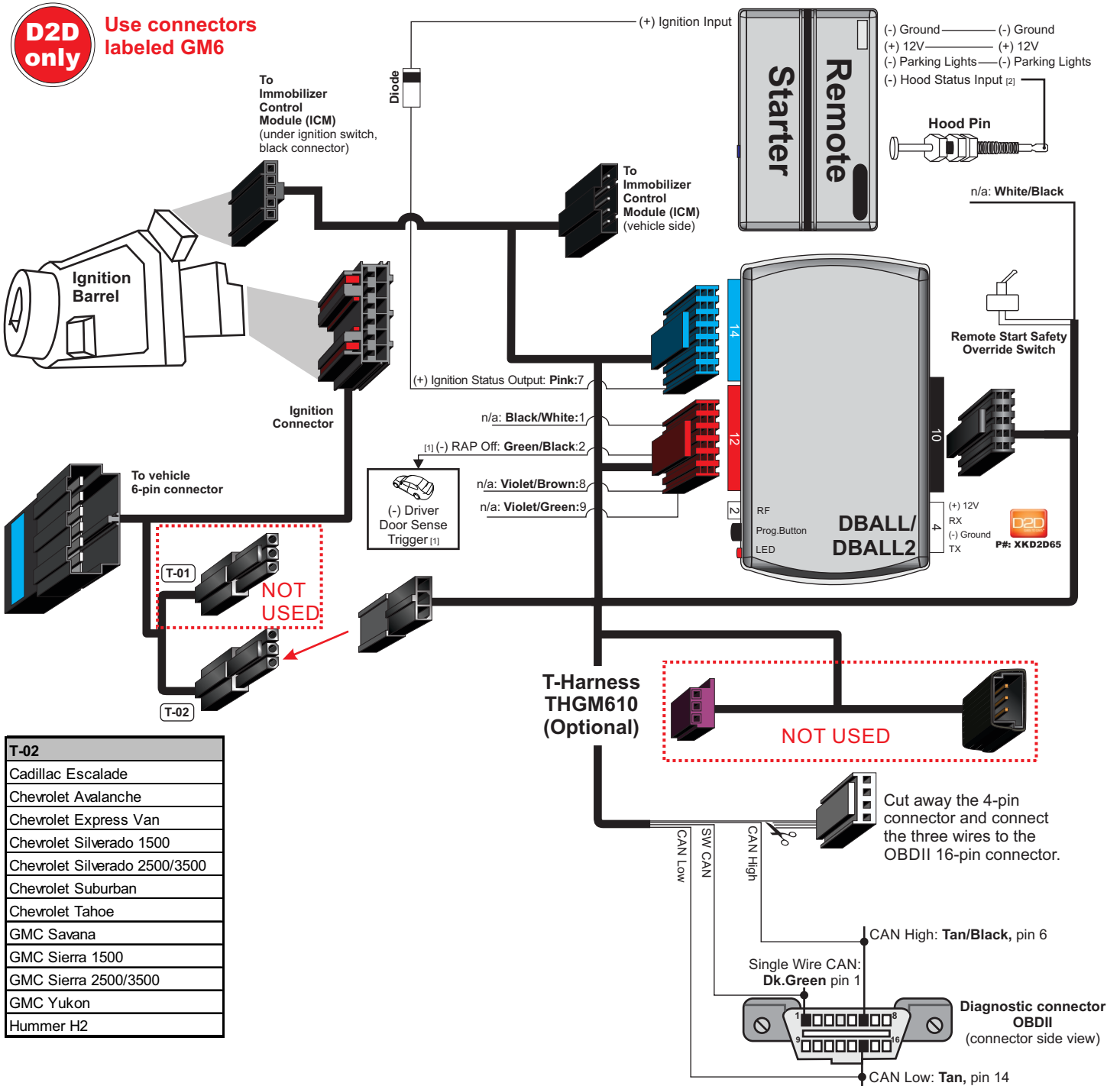
Installation Type 3c, T-Harness THGM610 Rev. 1 & 2, T-02 (without RFLCHGM)



WARNING!

We recommend using the Wiring Diagram (**with** RFLCHGM) on page 3, especially if the vehicle is not used daily. The Wiring Diagram (**without** RFLCHGM) will draw 15-20mA more on the vehicle, when it is parked and the engine is turned off.

Using Wiring Diagram (**without** RFLCHGM) can deactivate OEM remote starter functionality, OEM fob and smart phones, due to the accessory wire opening. To preserve OEM remote starter functionality, use the Wiring Diagram (**with** RFLCHGM) on page 3.

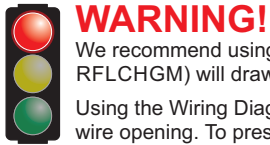


T-02
Cadillac Escalade
Chevrolet Avalanche
Chevrolet Express Van
Chevrolet Silverado 1500
Chevrolet Silverado 2500/3500
Chevrolet Suburban
Chevrolet Tahoe
GMC Savana
GMC Sierra 1500
GMC Sierra 2500/3500
GMC Yukon
Hummer H2

[1] If the RAP Off wire is not connected, the radio will turn OFF but some lights will remain ON in the central console for 10 minutes. Connect this wire (Green/Black, pin 2/12) to the driver door sense trigger (Gray/Black) to avoid the issue. **RAP Off:** Refer to page 9 for wire color and location.

[2] Only required if no OEM hood pin.

Installation Type 3d, T-Harness THGM610 Rev. 3, T-02 (without RFLCHGM)

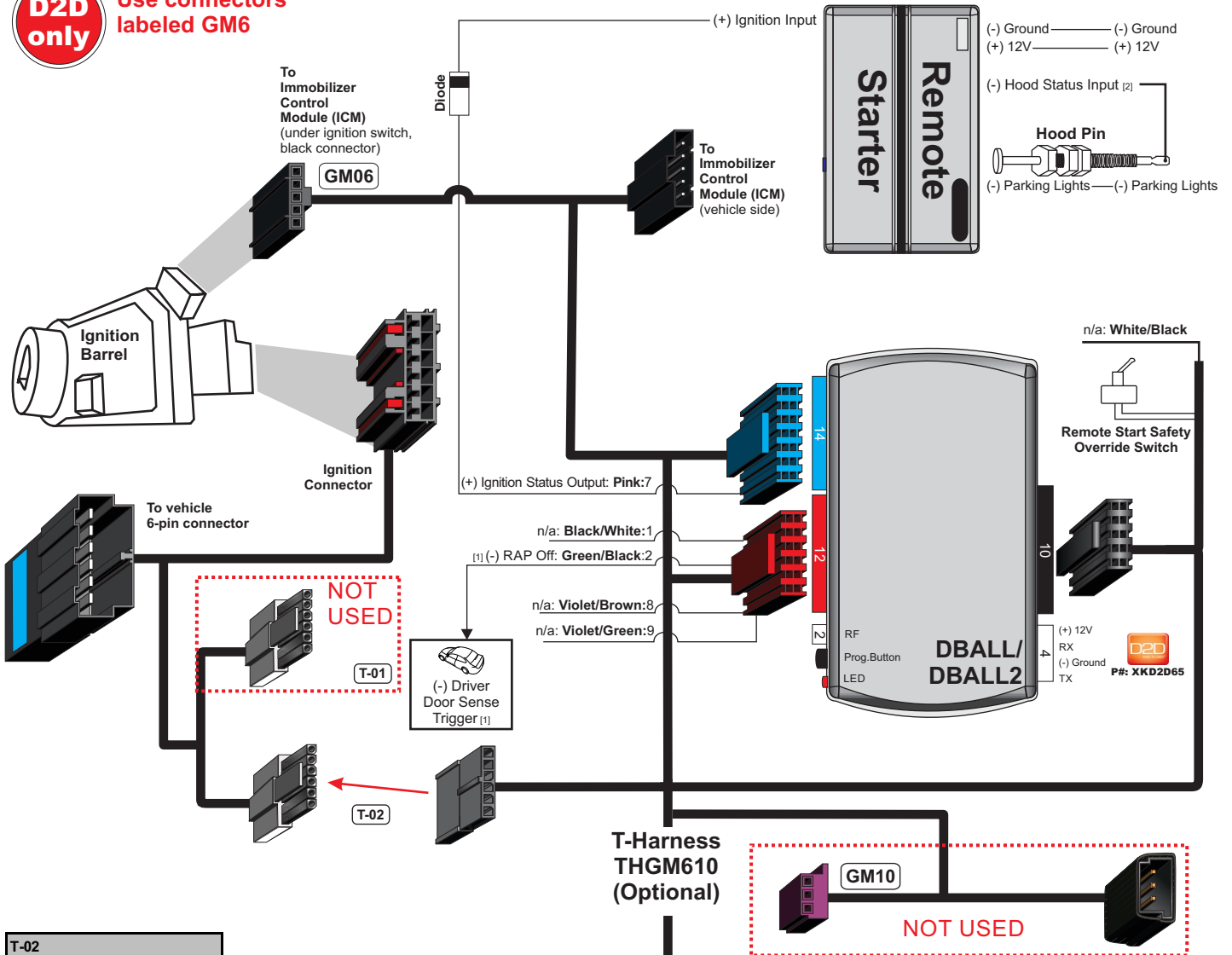


WARNING!

We recommend using the Wiring Diagram (**with** RFLCHGM) on page 3, especially if the vehicle is not used daily. The Wiring Diagram (**without** RFLCHGM) will draw 15-20mA more on the vehicle, when it is parked and the engine is turned off.

Using the Wiring Diagram (**without** RFLCHGM) can deactivate OEM remote starter functionality, OEM fob and smart phones, due to the accessory wire opening. To preserve OEM remote starter functionality, use the Wiring Diagram (**with** RFLCHGM) on page 3.

D2D only
Use connectors labeled GM6



T-02
Cadillac Escalade
Chevrolet Avalanche
Chevrolet Express Van
Chevrolet Silverado 1500
Chevrolet Silverado 2500/3500
Chevrolet Suburban
Chevrolet Tahoe
GMC Savana
GMC Sierra 1500
GMC Sierra 2500/3500
GMC Yukon
Hummer H2

[1] If the RAP Off wire is not connected, the radio will turn OFF but some lights will remain ON in the central console for 10 minutes. Connect this wire (Green/Black, pin 2/12) to the driver door sense trigger (Gray/Black) to avoid the issue. **RAP Off:** Refer to page 9 for wire color and location.
[2] Only required if no OEM hood pin.


Vehicle Wiring Reference Chart

Make	Years	Ignition Switch		Immobilizer Control Module (ICM)			RAP Off *
		Accessory (+)	Ignition (+)	12V (+) pin 1	Accessory (+) pin 2	Ground (-) pin 3	at Driver Door Trigger wire
Buick							
Enclave	2008-16	Brown, pin 3	Pink, pin 1	Red/White	Brown	Black/White	Gray/Black, Pink Conn. X6 at BCM, pin 10
Lucerne	2006-11	Brown, pin 3	Pink, pin 1	Orange/Pink	Brown	Black	Not required
Cadillac							
CTS	2008-13	Brown, pin 3	Pink, pin 1	Red/White or Orange	Brown	Black/White	Not required
CTS Coupe	2014	Brown, pin 3	Pink, pin 1	Red/White	Brown	Black/White	Not required
CTS Wagon	2014	Brown, pin 3	Pink, pin 1	Red/White	Brown	Black/White	Not required
DTS	2006-11	Brown, pin 3	Pink, pin 1	Orange/Pink	Brown	Black	Not required
Escalade	2007-14	Brown, pin 3	Pink, pin 2	Red/White	Brown	Black/White	Not required
SRX	2007-09	Brown, pin 4	Pink, pin 2	Red/White	Brown	Black/White	Not required
Chevrolet							
Avalanche	2007-13	Brown, pin 3	Pink, pin 2	Red/White	Brown	Black/White	Not required
Caprice	2011-13	Brown, pin 3	Pink, pin 1	Orange/Black	Brown	Black	Gray/Black or Brown/White, Pink Conn. X6 at BCM, pin 10
Captiva Sport	2012-14	Yellow, pin 1	Pink, pin 3	Red/White	Yellow	Black/White	Gray/Black, Pink Conn. X6 at BCM, pin 10
Equinox	2007-09	Brown, pin 2	Pink, pin 1	Red/White	Brown	Black/White	Gray/Black, Pink Conn. X6 at BCM, pin 10
Express Van	2008-15	Brown, pin 3	Pink, pin 2	Red/White	Brown	Black/White	Gray/Black, Pink Conn. X6 at BCM, pin 10
Impala	2006-13	Brown, pin 3	Pink, pin 1	Red/White	Brown	Black/White	Gray/black, Pink Conn. X6 at BCM, pin 10
Monte Carlo	2006-07	Brown, pin 3	Pink, pin 1	Red/White	Brown	Black/White	Not required
Silverado 1500	2007-13	Brown, pin 3	Pink, pin 2	Red/White	Brown	Black/White	Not required
Silverado 2500/3500	2007-14	Brown, pin 3	Pink, pin 2	Red/White	Brown	Black/White	Not required
Suburban	2007-14	Brown, pin 3	Pink, pin 2	Red/White	Brown	Black/White	Not required
Tahoe	2007-14	Brown, pin 3	Pink, pin 2	Red/White	Brown	Black/White	Not required
Traverse	2009-16	Brown, pin 3	Pink, pin 1	Red/White	Brown	Black/White	Not required
GMC							
Acadia	2007-16	Brown, pin 3	Pink, pin 1	Red/White	Brown	Black/White	Gray/Black, Pink Conn. X6 at BCM, pin 10
Savana	2008-15	Brown, pin 3	Pink, pin 2	Red/White	Brown	Black/White	Gray/Black, Pink Conn. X6 at BCM, pin 10
Sierra 1500	2007-13	Brown, pin 3	Pink, pin 2	Red/White	Brown	Black/White	Not required
Sierra 2500/3500	2007-14	Brown, pin 3	Pink, pin 2	Red/White	Brown	Black/White	Not required
Yukon	2007-14	Brown, pin 3	Pink, pin 2	Red/White	Brown	Black/White	Not required
Hummer							
H2	2008-10	Brown, pin 3	Pink, pin 2	Red/White	Brown	Black/White	Gray/Black, driver window switch, brown 16 pin plug, pin 13
Pontiac							
G8	2008-09	Brown, pin 3	Pink, pin 1	Orange/Black	Brown	Black	Gray/Black, Pink Conn. X6 at BCM, pin 10
Torrent	2007-09	Brown, pin 2	Pink, pin 1	Red/White	Brown	Black/White	Gray/Black, Pink Conn. X6 at BCM, pin 10
Saturn							
Outlook	2007-10	Brown, pin 3	Pink, pin 1	Red/White	Brown	Black/White	Gray/Black, Pink Conn. X6 at BCM, pin 10
VUE	2008-10	Yellow, pin 1 or 2	Pink, pin 1 or 3	Red/White	Yellow	Black	Gray/Black, Pink Conn. X6 at BCM, pin 10
Suzuki							
XL7	2007-09	Brown, pin 2	Pink, pin 1	Red/White	Brown	Black/White	Gray/Black, Pink Conn. X6 at BCM, pin 10

Please note that pin numbers may vary from vehicle to vehicle.


* For vehicles not equipped with "**Express window up/down**" feature, hook up the Green/Black (pin 2 of 12-pin connector on DBALL) to the driver door trigger wire of the vehicle.

Module Programming

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

Important

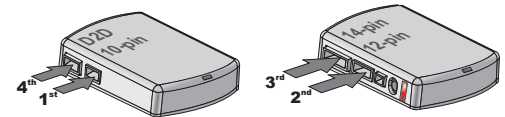
Make all the required connections to the vehicle, as described in the wiring diagram(s) found in this guide, and double check to ensure everything is correct prior to moving onto the next step.

 **Warning!** To take advantage of advanced features, you must use XpressVIP 4.5 or higher. Using version 2.9 or 3.1 will limit available functions and features.

1. Connect the interface module to your computer using the **XKLoader**.
2. Open an Internet Explorer browser (version 6 or higher), and go to www.directechs.com. The detail of the platform and firmware that is currently saved on the interface module will be indicated in the top right corner of the page.
3. Select the **year**, **make** and **model** of the vehicle; the page will refresh to display the compatible firmware.
4. In the search result page, select **Flash Standard install**, and follow the instructions provided on the screen.
5. Once you have configured your options, click on the **FLASH** button to upload the firmware onto the interface module.
6. The following message will be displayed when the upload is completed:
"The flashing is successfully completed. You may now unplug the kit."
You can now proceed with the programming instructions below.

D2D Installation

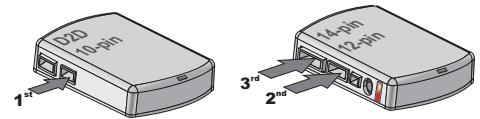
If required for your installation, connect the 10-pin, 12-pin and 14-pin harnesses to the module, then connect the 4-pin D2D harness.



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.



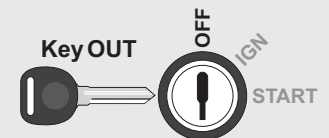
- 1** Wait until the LED turns ON solid red.
Note: To skip the transponder programming and use convenience features only, press the programming button 5 times.



- 2** Turn the key to the ignition position. The LED turns ON green for 3 seconds then shuts off.



- 3** Remove the key from ignition.



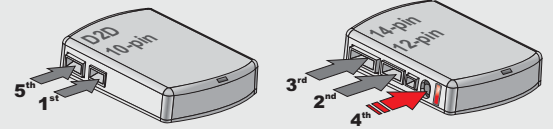
You have successfully completed the module programming sequence.

Module Reset

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

D2D Installation

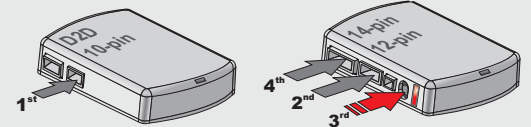
If required for your installation, connect the 10-pin, 12-pin & 14-pin harnesses to the module. Press and hold the programming button, then connect the 4-pin D2D harness.



1 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.



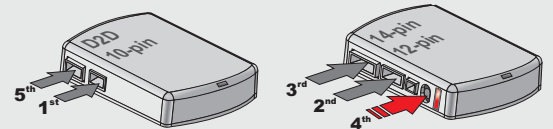
Hard Reset

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.

D2D Installation

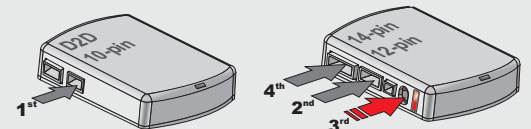
If required for your installation, connect the 10-pin, 12-pin & 14-pin harnesses to the module. Press and hold the programming button, then connect the 4-pin D2D harness.



1 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 and Option List

It is recommended to configure all the features and options listed below using the configuration tool found on the module flashing page 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**

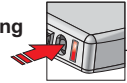
** The Heated Seat function will only work if this feature is listed in the VAG (Vehicle Application Guide), on page 2.

*** The Cadillac CTS, Chevrolet Impala and Buick Lucerne requires the Electric Rear Hatch option for the trunk to work.

Features	Operation	Flashes / Option	Descriptions
1	RF 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. Smart Start	Module is connected to SmartStart using an RSR or RXT installation (when available).
2	Unlock Driver Priority	1. Drivier 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	Trunk ***	1. Trunk*	1. Will pop the trunk if available.
		2. Tail Glass Opening / Electric Rear Hatch	2. Trunk/Tail Glass: Will pop the trunk or if not available, will pop the tail glass. Electric Rear Hatch: When available, will operate the rear hatch.
4	AUX1	1. Trunk*	1. Will pop the trunk if available.
		2. Tail Glass Opening / Electric Rear Hatch	2. Trunk/Tail Glass: Will pop the trunk or if not available, will pop the tail glass Electric Rear Hatch: When available, will operate the rear hatch.
5	Heated Seats **	1. Disabled*	No operation.
		2. Enabled	When the feature is enabled, it will activate the Heated Seats and heated steering wheel.
6	Heated Seats/Defroster Temperature Control **	1. 32°F (0°C)*	When the Heated Seats feature is enabled, it will activate the heated seats upon remote start when temperature is below 32 °F (0 °C).
		2. 23°F (-5°C)	When the Heated Seats feature is enabled, it will activate the heated seats upon remote start when temperature is below 23 °F (-5 °C).
		3. 41°F (5°C)	When the Heated Seats feature is enabled, it will activate the heated seats upon remote start when temperature is below 41 °F (5 °C).
		4. Always On	When the Heated Seats feature is enabled, it will activate the heated seats at any temperature.
7	Heated Seats Temperature Level **	1. High*	When Heated Seats are activated, they will be set to HIGH.
		2. Medium	When Heated Seats are activated, they will be set to MEDIUM.
		3. Low	When Heated Seats are activated, they will be set to LOW.
8	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

Programming
Button



To enter feature programming routine

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

Changing feature options

- Press the lock/arm or unlock/disarm button on aftermarket transmitter to change the option of the selected feature.
- The LED flashes red rapidly the number of times equal to the current option number. After a short delay, the LED flashes green slowly the number of times to indicate the current feature. The flashing sequence will repeat until a new command is entered.

Accessing another feature

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

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

















Once a feature is programmed

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

Exiting feature programming

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

LED Diagnostics and 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 for SW CAN detection.	Make sure SWCAN is properly connected and turn ignition ON.	
 Solid Orange	Bypass was skipped (RXT mode)	Normal operation.	
 Solid green x 3 seconds	Module was successfully programmed.	Normal operation.	
 Solid orange x 3 secs	Module was successfully programmed without bypass (RXT mode).	Normal operation.	
 Solid green x2 1 second,	Module was successfully programmed with second CAN (OBDII pin 6 & 14) SmartStart DTC	Normal operation.	
 Solid orange x2 for 1 second	Module was successfully programmed without bypass (RXT mode) with second CAN (OBDII pin 6 & 14) SmartStart DTC	Normal operation.	
External module synchronization			
 Flashes red, red, then orange x 10	OBDII feature not supported.	Diagnostic data bus not detected. Some features are not supported by SmartStart. This can be caused by missing wire connections or module hardware limitation. Refer to the wiring installation section to check the connections.	
Active ground while running			
 Flashes green	GROUND OUT ON (GWR) command 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 and 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 quickly	START ON command received.	Otherwise, the start signal was not received by the module.	
D2D and W2W commands			
 Flashes orange x 1	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 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.		

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.

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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 its distributors will not, nor will they authorize any representative or any other individual to assume obligation or liability in relation to the interface kit / data bus interface part(s) other than its replacement. N.B.: Under no circumstances shall the manufacturer and distributors of this product be liable for consequential damages sustained in connection with this product and neither assumes nor authorizes any representative or other person to assume for it any obligation or liability other than the replacement of this product only.

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

List of Available Commands

Note that the information below is for Viper, Clifford and Python models. Icons and commands may differ depending on the remote brand and model purchased. Refer to your authorized installation center for more information.

Button(s)	Actions
	Press & hold for 1 second to lock.
	Press & hold for 1 second to unlock.
	Press & hold for 1 second to remote start.
	Press & hold for 5 seconds to activate the trunk release (optional).
f x1 + 	Press f once, then  to activate the rear hatch/tail glass release (optional).*
f x3 + 	Press f 3 times, then  to activate the panic mode.
f x1 + 	Press f once, then  to reset the remote starter runtime.

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

Notes
