⚠ <u>Update Alert</u>: **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

Data override and door lock interface compatible with new generation GM vehicles with a BLADE-type key (i.e. Camaro, Equinox and Lacrosse). The available features include: Transponder override (no key required), door lock control, factory security control, trunk release, door, hood and trunk sensing, tach sensing, and much more.

Refer to Quick Reference Guide (QRG) at the end of this guide for more information on how to use the various features offered with this product.

Compatible with Plug&Play installation of optional **T-Harness THGM610** (sold separately).

🔴 **Important:**
🟢 **This guide is compatible with the GM10 firmware version 3.18 and higher.**

Index

Vehicle Application Guide

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

Vehicles	2016	2015	2014	2013	2012	2011	2010	PK-Immobilizer Bypass-Data No Key Req'd	CC-Heated Seats Activation	DL-Arm Factory Security	DL-Disarm Factory Security	DL-Door Lock Control	DL-Door Unlock	DL-Driver Priority Unlock	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	ST-Brake Status (foot brake)	ST-E-Brake Status
Buick																							
Encore		1	1	1				•		•	•	•	•	•	D	•	•	•	D	•	•	•	•
LaCrosse			1	1	1	1	1	•		•	•	•	•	•	D	•	•	•	D	•	•	•	•
Regal		1	1	1	1	1		•		•	•	•	•	•	D	•	•	•	D	•	•	•	•
Verano		1	1	1	1			•		•	•	•	•	•	D	•	•	•	D	•	•	•	•
Chevrolet																							
Camaro		1	1	1	1			•	•	•	•	•	•	•	D	•	•	•	D	•	•	•	•
Camaro						1	1	•		•	•	•	•	•	D	•	•	•	D	•	•	•	•
Colorado		2						•		•	•	•	•	•	D	•	•	•	D	•		•	•
Cruze		1	1	1	1	1		•		•	•	•	•	•	D	•	•	•	D	•	•	•	•
Equinox		1	1	1	1			•	•	•	•	•	•	•	D	•	•	•	D	•	•	•	•
Equinox					1	1		•		•	•	•	•	•	D	•	•	•	D	•	•	•	•
Impala		1	1					•		•	•	•	•	•	D	•	•	•	D	•	•	•	•
Malibu		1	1	1				•		•	•	•	•	•	D	•	•	•	D	•	•	•	•
Orlando				1	1			•		•	•	•	•	•	D	•	•	•	D	•	•	•	•
Silverado 1500 [2]		2	2					•		•	•	•	•	•	D	•	•	•	D	•	•	•	•
Silverado 2500/3500 [2]		2						•		•	•	•	•	•	D	•	•	•	D	•		•	•
Sonic		1	1	1	1			•		•	•	•	•	•	D	•	•	•	D	•	•	•	•
Spark [1]			3	3				•		•	•	•	•	•	D	•	•	•	D	•	•	•	•
Suburban		2						•		•	•	•	•	•	D	•	•	•	D	•	•	•	•
Tahoe		2						•		•	•	•	•	•	D	•	•	•	D	•	•	•	•
Trax	1	1	1	1				•		•	•	•	•	•	D	•	•	•	D	•	•	•	•
GMC																							
Canyon		2						•		•	•	•	•	•	D	•	•	•	D	•		•	•
Sierra 1500 [2]		2	2					•		•	•	•	•	•	D	•	•	•	D	•		•	•
Sierra 2500/3500 [2]		2						•		•	•	•	•	•	D	•	•	•	D	•		•	•
Terrain		1	1	1	1	1	1	•		•	•	•	•	•	D	•	•	•	D	•	•	•	•
Yukon		2						•		•	•	•	•	•	D	•	•	•	D	•	•	•	•

Legend:

•: D2D & Wire-to-Wire (W2W)	CC: Comfort & Convenience Controls	RS: Remote Start & Engine Controls
W: Wire-to-Wire	DL: OE Door Lock & Alarm Controls	SS: Integrated Security & Monitoring
	PK: Transponder & Immobilizer Override	ST: Function/Feature Status
	FOB: Sync CAN Interface w / FOB Remote	

[1] T-Harness THGM610 is **not** compatible with Chevrolet Spark.

[2] T-Harness THGM610 is ONLY compatible with these models IF the vehicle is equipped with OnStar.

Type 1a (Without T-Harness)

Starter **Remote**

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

(-) Lock Output
(-) Unlock Output
(-) Trunk Release Output
(-) Aux Output [3]
(+) Starter Output
(-) GWR (Status)

Light Switch Connector

(-) Parking Lights: pin 3

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

(-) Parking Light Output

1 2 3 4 5 6
7 8 9 10 11 12

(+) Ignition Output

Refer to the Vehicle Wiring
Reference Charts (pages 10 to 15)
for wire color and location.

OBDII
Diagnostic Connector

SW CAN:
Green,
pin 1

CAN High:
Tan/Black or Blue, pin 6

1 8
9 16

CAN Low:
Tan or White,
pin 14

Single Wire CAN: **Light Green**: 1
HS CAN High: **Tan/Black**: 3
HS CAN Low: **Tan**: 4
Immo. Data (conn side): **Orange/Red**: 10
Immo. Data (veh. side): **Yellow/Red**: 11
Immo. Data: **Brown/Red**: 12
(+) 12V (+) 12V: **Red**: 13
(-) Ground (-) Ground: **Black**: 14

14

(-) E-Brake Status Output: **Black/White**: 1
[2] RAP Off: **Green/Black**: 2
(-) Door Status Output: **Green/White**: 3
(-) Trunk Status Output: **Red/Black**: 4
[1] (AC) Tach Output: **Violet/White**: 5
(+) Brake Output: **Gray**: 6
(+) Accessory Output: **Gray/Black**: 7
Clutch Switch: **Violet/Green**: 8
Clutch Switch: **Violet/Brown**: 9
Immo. Data: **Yellow/Black**: 10
Immo. Data (veh.side): **Orange/Black**: 11
(-) Hood Status Output: **Blue/Red**: 12

12

10: **Blue/White**: (-) GWR (Status) Input
8: **Violet**: (+) Starter Input
6: **White/Black**: (-) Heated Seats [4]
3: **Red/White**: (-) Trunk Input
2: **Blue**: (-) Unlock Input
1: **Green**: (-) Lock Input

10

RF
Prog. Button
LED

2

DBALL/
DBALL2

(+)12V
RX
(-) Ground
TX

4

D2D
XKD2D65

(-) Driver Door
Sense Trigger [2]

Immo. Data: pin 2   Cut

1 2 3

Immobilizer Control
Module

(+) Accessory: pin 3

Ignition
Control
Switch

1 2 3 4 5 6

(+) Ignition: pin 1

Clutch: **Yellow**, pin B

Clutch Switch
Black 3-pin
connector

A B C

For manual transmission only

– – – – 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] If the RAP Off wire is not connected, the radio will turn OFF but some lights will remain ON in the center console for 10 minutes. Connect this wire (Green/Black, pin 2/12) to the driver door sense trigger to avoid the issue. RAP Off/Door Trigger color and location can be found in the **Vehicle Wiring Reference Charts** (pages 10-15).

[3] Use (-) Aux or any (-) trigger to activate the heated seats function during run time.

[4] Heated seat feature must be enabled (only compatible on certain vehicles - refer to page 2), see **Feature Programming** (page 19).
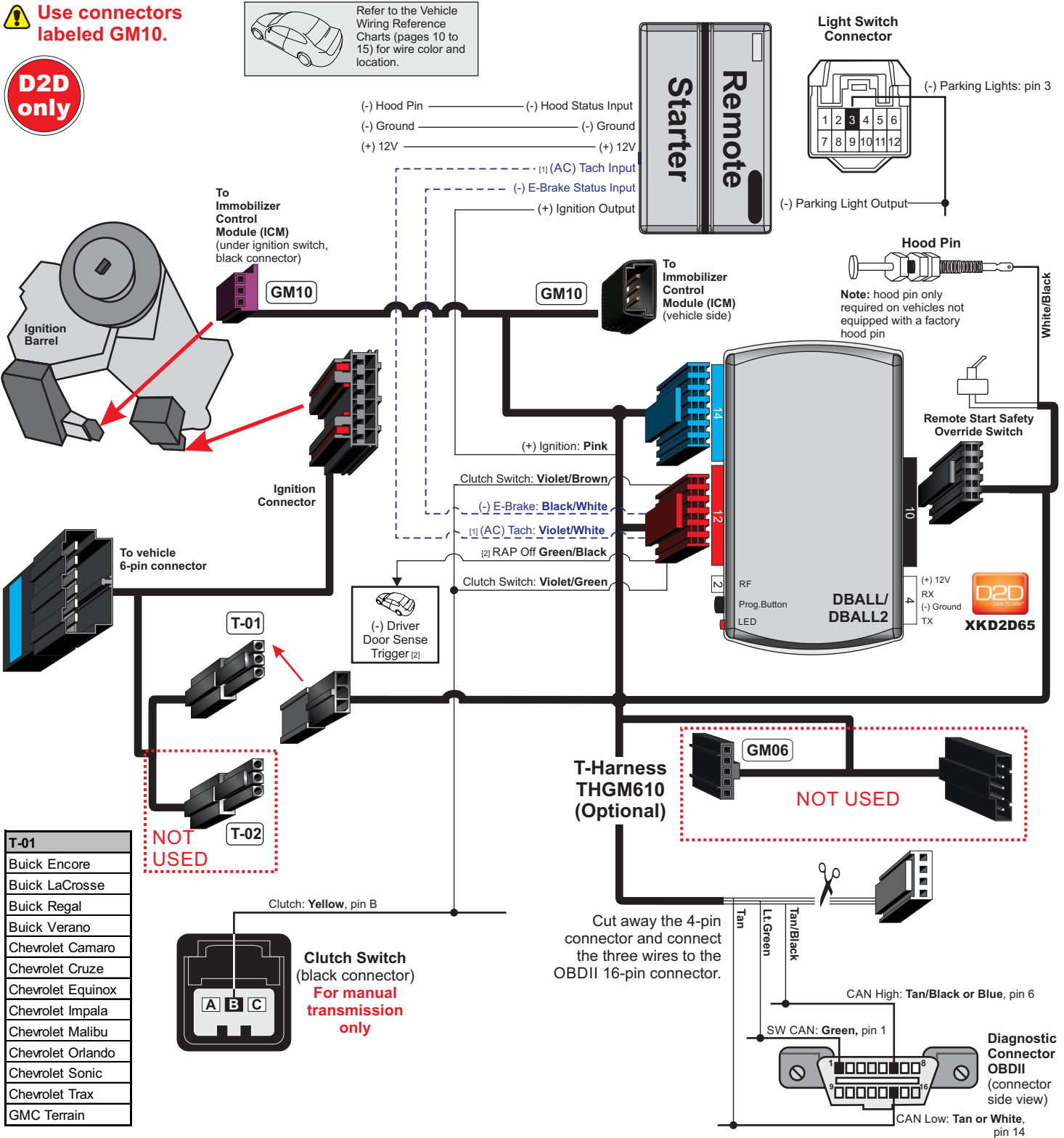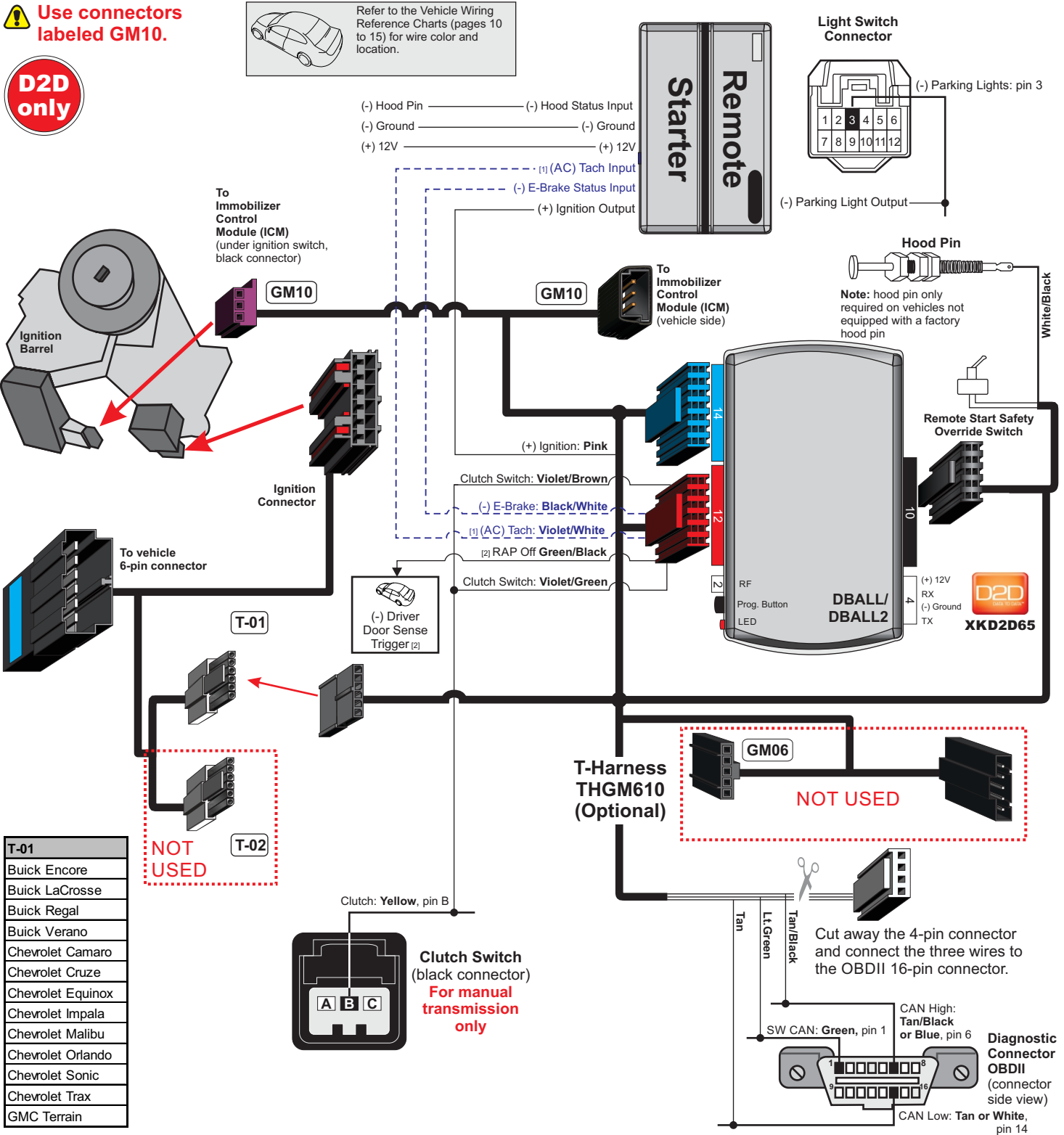
⚠ With the exception of the OBDII Diagnostic connector, all adapters are displayed from the wire side (unless specified otherwise).

Type 1b (With T-Harness - Rev. 1)
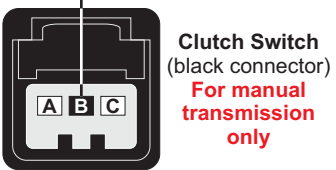
⚠️ **Use connectors labeled GM10.**

D2D only

Refer to the Vehicle Wiring Reference Charts (pages 10 to 15) for wire color and location.

Light Switch Connector

(-) Parking Lights: pin 3

| 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 |

(-) Parking Light Output

(-) Hood Pin —————— (-) Hood Status Input
(-) Ground ————————— (-) Ground
(+) 12V ————————————— (+) 12V
[1] (AC) Tach Input
(-) E-Brake Status Input
(+) Ignition Output

Starter **Remote**

To Immobilizer Control Module (ICM) (under ignition switch, black connector)

GM10

To Immobilizer Control Module (ICM) (vehicle side)

GM10

Ignition Barrel

Hood Pin

Note: hood pin only required on vehicles not equipped with a factory hood pin

White/Black

Ignition Connector

Remote Start Safety Override Switch

(+) Ignition: **Pink**

Clutch Switch: **Violet/Brown**

(-) E-Brake: **Black/White**

[1] (AC) Tach: **Violet/White**

[2] RAP Off **Green/Black**

Clutch Switch: **Violet/Green**

To vehicle 6-pin connector

DBALL/ DBALL2

RF
Prog.Button
LED

RX
(+) 12V
(-) Ground
TX

XKD2D65

(-) Driver Door Sense Trigger [2]

T-01

NOT USED

T-02

T-Harness THGM610 (Optional)

GM06

NOT USED

T-01
Buick Encore
Buick LaCrosse
Buick Regal
Buick Verano
Chevrolet Camaro
Chevrolet Cruze
Chevrolet Equinox
Chevrolet Impala
Chevrolet Malibu
Chevrolet Orlando
Chevrolet Sonic
Chevrolet Trax
GMC Terrain

Clutch: **Yellow**, pin B

Clutch Switch (black connector) **For manual transmission only**

| A | B | C |

Cut away the 4-pin connector and connect the three wires to the OBDII 16-pin connector.

Tan
Lt.Green
Tan/Black

CAN High: **Tan/Black or Blue**, pin 6

SW CAN: **Green,** pin 1

Diagnostic Connector OBDII (connector side view)

| 1 | | | | | | | 8 |
| 9 | | | | | | | 16 |

CAN Low: **Tan or White**, pin 14

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

[2] If the RAP Off wire is not connected, the radio will turn OFF but some lights will remain ON in the center console for 10 minutes. Connect this wire (Green/Black, pin 2/12) to the driver door sense trigger to avoid the issue. RAP Off/Door Trigger color and location can be found in the **Vehicle Wiring Reference Charts** (pages 10-15).

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

DIRECTED.

Type 1c (With T-Harness - Rev. 2)

⚠️ **Use connectors labeled GM10.**

D2D only

Refer to the Vehicle Wiring Reference Charts (pages 10 to 15) for wire color and location.

Light Switch Connector

(-) Parking Lights: pin 3

| 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 |

(-) Parking Light Output

(-) Hood Pin ———— (-) Hood Status Input
(-) Ground ———— (-) Ground
(+) 12V ———— (+) 12V
[1] (AC) Tach Input
(-) E-Brake Status Input
(+) Ignition Output

Starter **Remote**

Hood Pin

Note: hood pin only required on vehicles not equipped with a factory hood pin

White/Black

To Immobilizer Control Module (ICM) (under ignition switch, black connector)

GM10

To Immobilizer Control Module (ICM) (vehicle side)

GM10

Ignition Barrel

Remote Start Safety Override Switch

Ignition Connector

(+) Ignition: **Pink**

Clutch Switch: **Violet/Brown**

(-) E-Brake: **Black/White**

[1] (AC) Tach: **Violet/White**

[2] RAP Off **Green/Black**

Clutch Switch: **Violet/Green**

(-) Driver Door Sense Trigger [2]

To vehicle 6-pin connector

T-01

DBALL/ DBALL2

RF
Prog. Button
LED

(+) 12V
RX
(-) Ground
TX

XKD2D65

T-Harness THGM610 (Optional)

GM06

NOT USED

T-01
Buick Encore
Buick LaCrosse
Buick Regal
Buick Verano
Chevrolet Camaro
Chevrolet Cruze
Chevrolet Equinox
Chevrolet Impala
Chevrolet Malibu
Chevrolet Orlando
Chevrolet Sonic
Chevrolet Trax
GMC Terrain

NOT USED **T-02**

Clutch: **Yellow**, pin B

Clutch Switch (black connector)
For manual transmission only

| A | B | C |

Cut away the 4-pin connector and connect the three wires to the OBDII 16-pin connector.

Tan
Lt.Green
Tan/Black

CAN High: **Tan/Black or Blue**, pin 6

SW CAN: **Green**, pin 1

Diagnostic Connector OBDII (connector side view)

| 1 | 8 |
| 9 | 16 |

CAN Low: **Tan or White**, pin 14

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

[2] If the RAP Off wire is not connected, the radio will turn OFF but some lights will remain ON in the center console for 10 minutes. Connect this wire (Green/Black, pin 2/12) to the driver door sense trigger to avoid the issue. RAP Off/Door Trigger color and location can be found in the **Vehicle Wiring Reference Charts** (pages 10-15).

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

Vehicle Wiring Reference Chart - Type 1

⚠ Wire colors should only be used as a reference. You should always test a wire's function and pin location before connecting to it.

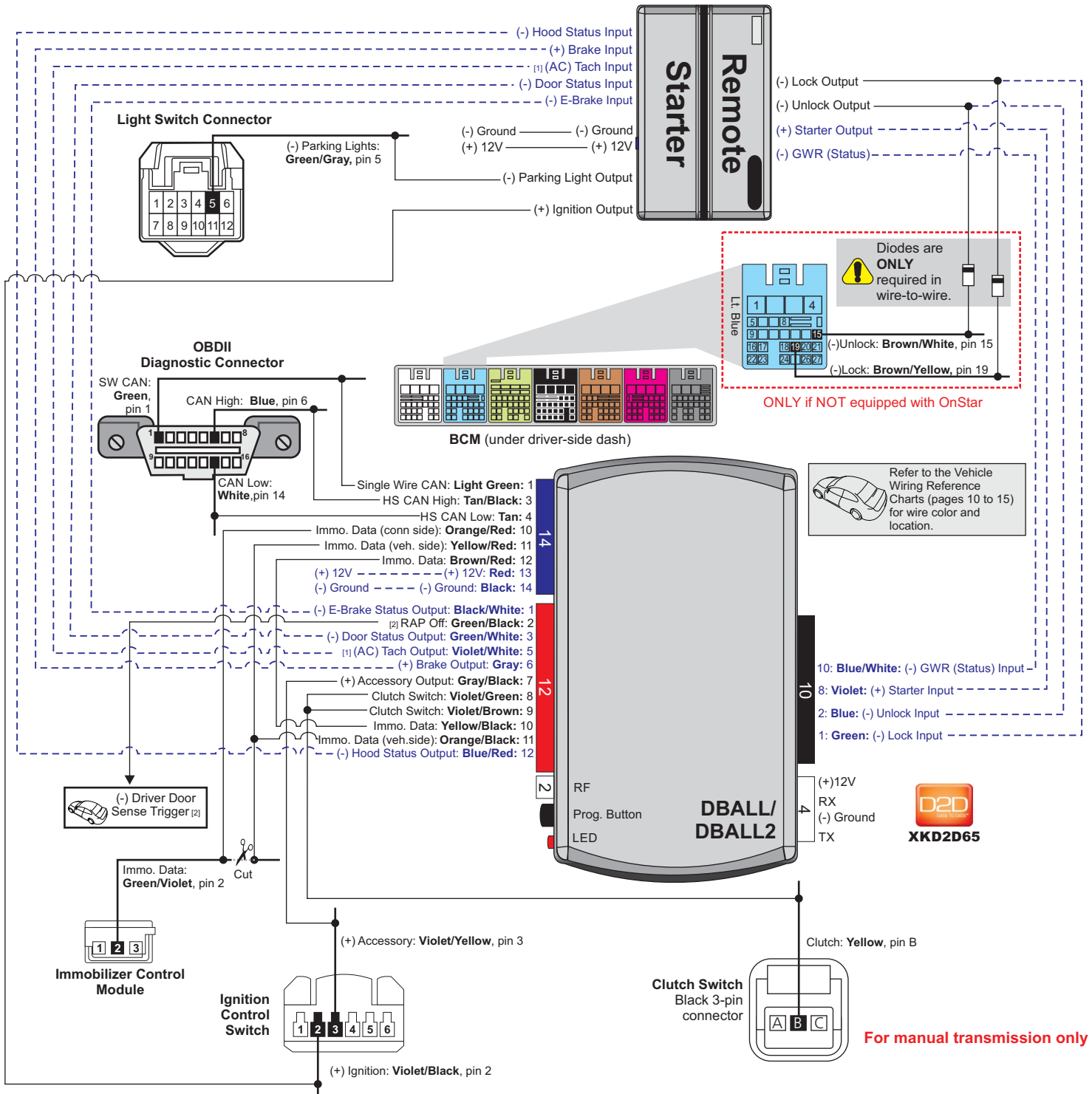| Wire Information				Connector Information		
Function	Color	Pin	Polarity	Location	Color	Pins
Buick Encore 2013-2015						
Ignition	Violet/ Black	1	(+)	Ignition Control Switch	Black	6
Accessory	Violet/Yellow	3	(+)	Ignition Control Switch	Black	6
Parking Lights	Green/Gray	3	(-)	Headlight Switch	Black	12
DATA Bypass	Green/Violet	2	Data	Immobilizer Control Module, under ignition switch	Violet	3
RAP Off	Gray	6	(-)	Driver Window Motor, in driver's door	Black	7
SW CAN	Green	1	Data	OBDII	Black	16
CAN High	Blue	6	Data	OBDII	Black	16
CAN Low	White	14	Data	OBDII	Black	16
Buick LaCrosse 2010						
Ignition	Pink	1	(+)	Ignition Switch	Black	6
Accessory	Brown	3	(+)	Ignition Switch	Black	6
Parking Lights	Lt. Blue	3	(-)	Headlight Switch	Black	12
Immo. Data	Lt. Blue	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray/Black	6	(-)	Driver Window Motor	Black	7
SW CAN	Dk. Green	1	Data	OBDII Connector	Black	16
CAN High	Tan/Black	6	Data	OBDII Connector	Black	16
CAN Low	Tan	14	Data	OBDII Connector	Black	16
Buick LaCrosse 2011-2012						
Ignition	Violet	1	(+)	Ignition Switch	Black	6
Accessory	Violet	3	(+)	Ignition Switch	Black	6
Parking Lights	Lt. Green	3	(-)	Headlight Switch	Black	12
Immo. Data	Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	6	(-)	Driver Window Motor	Black	7
SW CAN	Green	1	Data	OBDII Connector	Black	16
CAN High	Dk. Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16
Buick LaCrosse 2013						
Ignition	Violet/Black	1	(+)	Ignition Switch	Black	6
Accessory	Violet/Yellow	3	(+)	Ignition Switch	Black	6
Parking Lights	Green/Brown	3	(-)	Headlight Switch	Black	12
Immo. Data	Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	6	(-)	Driver Window Motor	Black	7
SW CAN	Green	1	Data	OBDII Connector	Black	16
CAN High	Dk. Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16
Buick LaCrosse 2014						
Ignition	Violet	1	(+)	Ignition Switch	Black	6
Accessory	Lt. Green	3	(+)	Ignition Switch	Black	6
Parking Lights	Lt. Green	3	(-)	Headlight Switch	Black	12
Immo. Data	Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	6	(-)	Driver Window Motor	Black	7
SW CAN	Lt. Green	1	Data	OBDII Connector	Black	16
CAN High	Dk. Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16
Buick Regal 2011						
Ignition	Violet/Black	1	(+)	Ignition Switch	Black	6
Accessory	Violet/Yellow	3	(+)	Ignition Switch	Black	6
Parking Lights	Green/Gray	3	(-)	Headlight Switch	Black	12
Immo. Data	Lt. Green/White or Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	6	(-)	Driver Window Motor	Black	7
SW CAN	Green	1	Data	OBDII Connector	Black	16
CAN High	Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16

Vehicle Wiring Reference Chart - Type 1

⚠ Wire colors should only be used as a reference. You should always test a wire's function and pin location before connecting to it.

Wire Information				Connector Information		
Function	Color	Pin	Polarity	Location	Color	Pins
Buick Regal 2012-2015						
Ignition	Violet/Black	1	(+)	Ignition Switch	Black	6
Accessory	Violet/Yellow	3	(+)	Ignition Switch	Black	6
Parking Lights	Green/Gray	3	(-)	Headlight Switch	Black	12
Immo. Data	Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	6	(-)	Driver Window Motor	Black	7
SW CAN	Green	1	Data	OBDII Connector	Black	16
CAN High	Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16
Buick Verano 2012-2015						
Ignition	Violet/Black	1	(+)	Ignition Switch	Black	6
Accessory	Violet/Yellow	3	(+)	Ignition Switch	Black	6
Parking Lights	Green/Gray	3	(-)	Headlight Switch	Black	12
Immo. Data	Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	6	(-)	Driver Window Motor	Black	7
SW CAN	Green	1	Data	OBDII Connector	Black	16
CAN High	Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16
Chevrolet Camaro 2010-2015						
Ignition	Pink	1	(+)	Ignition Switch	White	6
Accessory	Brown	3	(+)	Ignition Switch	White	6
Parking Lights	Lt. Blue	3	(-)	Headlight Switch	Black	12
Immo. Data	Lt. Blue	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray/Black	6	(-)	Driver Window Motor	Black	7
SW CAN	Dk. Green	1	Data	OBDII Connector	Black	16
CAN High	Tan/Black	6	Data	OBDII Connector	Black	16
CAN Low	Tan	14	Data	OBDII Connector	Black	16
Chevrolet Cruze 2011-2014						
Ignition	Violet/Black	1	(+)	Ignition Switch	Black	6
Accessory	Violet/Yellow	3	(+)	Ignition Switch	Black	6
Parking Lights	Green/Gray	3	(-)	Headlight Switch	Black	12
Immo. Data	Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	6	(-)	Driver Window Switch (driver window auto down only)	Black	8
	Gray	6	Data	Driver Window Motor (driver window auto up & down)	Black	7
SW CAN	Green	1	Data	OBDII Connector	Black	16
CAN High	Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16
Chevrolet Equinox 2010-2015						
Ignition	Pink	1	(+)	Ignition Switch	Black	6
Accessory	Brown	3	(+)	Ignition Switch	Black	6
Parking Lights	Lt. Blue	3	(-)	Headlight Switch	Black	12
Immo. Data	Lt. Blue	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray/Black	6	(-)	Driver Window Switch	Black	8
SW CAN	Dk. Green	1	Data	OBDII Connector	Black	16
CAN High	Tan/Black	6	Data	OBDII Connector	Black	16
CAN Low	Tan	14	Data	OBDII Connector	Black	16
Chevrolet Impala 2014-2015						
Ignition	Pink	1	(+)	Ignition Switch	Black	6
Accessory	Brown	3	(+)	Ignition Switch	Black	6
Parking Lights	Lt. Blue	3	(-)	Headlight Switch	Black	12
Immo. Data	Lt. Blue	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray/Black	6	(-)	Driver Window Switch	Black	8
SW CAN	Dk. Green	1	Data	OBDII Connector	Black	16
CAN High	Tan/Black	6	Data	OBDII Connector	Black	16
CAN Low	Tan	14	Data	OBDII Connector	Black	16

Vehicle Wiring Reference Chart - Type 1

⚠ Wire colors should only be used as a reference. You should always test a wire's function and pin location before connecting to it.

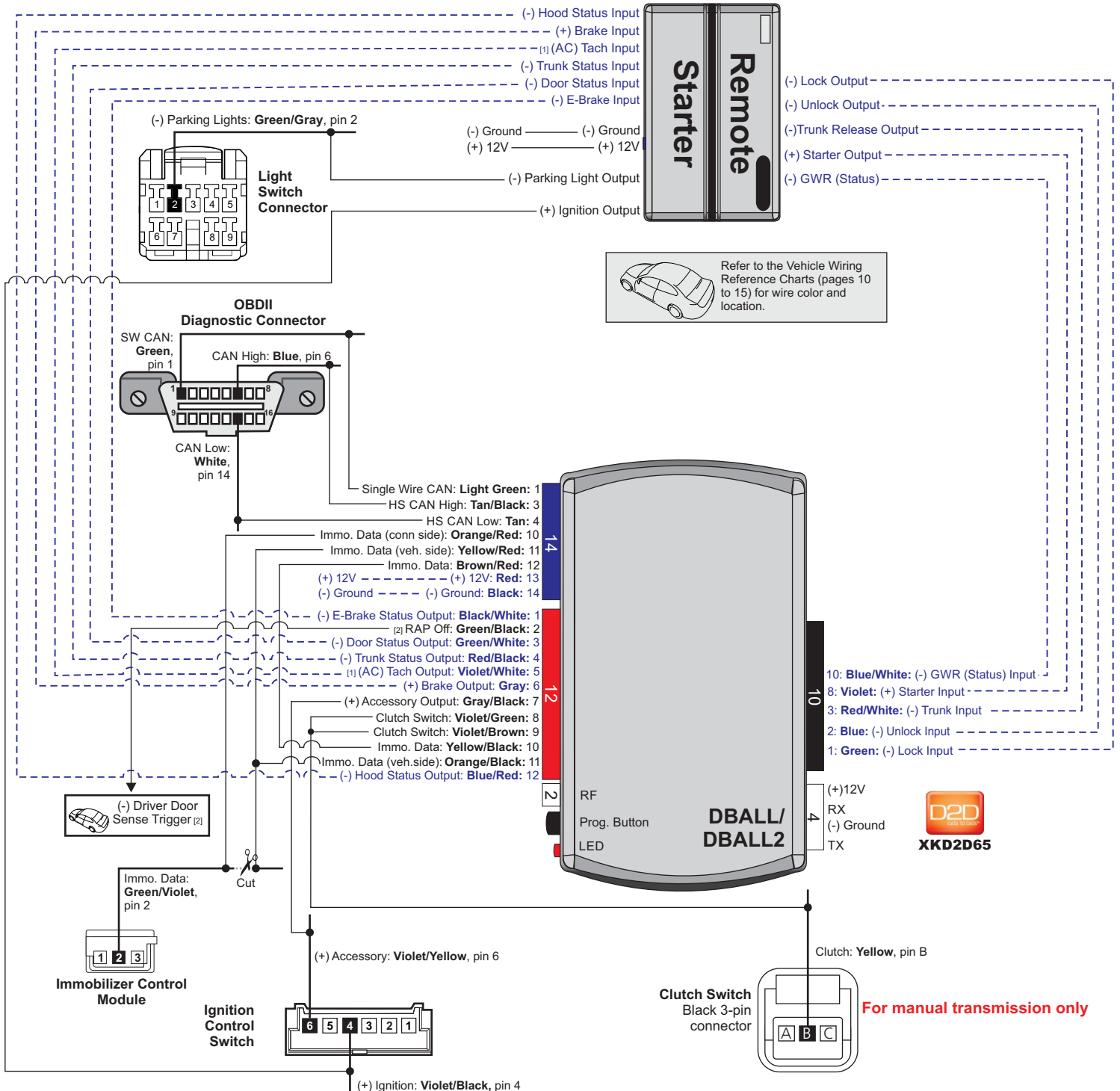| Wire Information				Connector Information		
Function	Color	Pin	Polarity	Location	Color	Pins
Chevrolet Malibu 2013-2015						
Ignition	Violet	1	(+)	Ignition Switch	Black	6
Accessory	Yellow	3	(+)	Ignition Switch	Black	6
Parking Lights	Gray	3	(-)	Headlight Switch	Black	12
Immo. Data	Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	6	(-)	Driver Window Switch (driver window auto down only)	Black	8
	Gray	6	(-)	Driver Window Motor (driver window auto up & down)	Black	7
SW CAN	Green	1	Data	OBDII Connector	Black	16
CAN High	Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16
Chevrolet Orlando 2012-2013						
Ignition	Violet/Black	1	(+)	Ignition Switch	Black	6
Accessory	Violet/Yellow	3	(+)	Ignition Switch	Black	6
Parking Lights	Green/Gray	3	(-)	Headlight Switch	Black	12
Immo. Data	Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	6	(-)	Driver Window Motor	Black	7
SW CAN	Green	1	Data	OBDII Connector	Black	16
CAN High	Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16
Chevrolet Sonic 2012-2015						
Ignition	Violet/Black	1	(+)	Ignition Switch	White	6
Accessory	Violet/Yellow	3	(+)	Ignition Switch	White	6
Parking Lights	Green/Gray	3	(-)	Headlight Switch	Black	12
Immo. Data	Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	22	(-)	BCM - under driver dash (without power windows)	Pink	27
	Gray	6	(-)	Driver Window Motor (with power windows)	Black	7
SW CAN	Green	1	Data	OBDII Connector	Black	16
CAN High	Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16
Chevrolet Trax 2013-2016						
Ignition	Violet/Black	1	(+)	Ignition Switch	Black	6
Accessory	Violet/Yellow	3	(+)	Ignition Switch	Black	6
Parking Lights	Green/Gray	3	(-)	Headlight Switch	Black	12
Immo. Data	Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	6	(-)	Driver Window Motor	Black	7
SW CAN	Green	1	Data	OBDII Connector	Black	16
CAN High	Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16
GMC Terrain 2010-2015						
Ignition	Pink	1	(+)	Ignition Switch	Black	6
Accessory	Brown	3	(+)	Ignition Switch	Black	6
Parking Lights	Lt. Blue	3	(-)	Headlight Switch	Black	12
Immo. Data	Lt. Blue	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray/Black	6	(-)	Driver Window Switch	Black	8
SW CAN	Dk. Green	1	Data	OBDII Connector	Black	16
CAN High	Tan/Black	6	Data	OBDII Connector	Black	16
CAN Low	Tan	14	Data	OBDII Connector	Black	16

Type 2a (Without T-Harness)

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

Starter | **Remote**

(-) Lock Output
(-) Unlock Output
(+) Starter Output
(-) GWR (Status)

Light Switch Connector

(-) Parking Lights: **Green/Gray, pin 5**

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

(-) Parking Light Output

1 2 3 4 5 6
7 8 9 10 11 12

(+) Ignition Output

Diodes are **ONLY** required in wire-to-wire.

Lt. Blue

1 4
5 8
16 17 18 19 20 21 15
22 23 24 25 26 27

(-)Unlock: **Brown/White**, pin 15
(-)Lock: **Brown/Yellow**, pin 19

ONLY if NOT equipped with OnStar

OBDII Diagnostic Connector

SW CAN: **Green**, pin 1
CAN High: **Blue**, pin 6

BCM (under driver-side dash)

CAN Low: **White**, pin 14

Single Wire CAN: **Light Green: 1**
HS CAN High: **Tan/Black: 3**
HS CAN Low: **Tan: 4**
Immo. Data (conn side): **Orange/Red: 10**
Immo. Data (veh. side): **Yellow/Red: 11**
Immo. Data: **Brown/Red: 12**
(+) 12V — (+) 12V: **Red: 13**
(-) Ground — (-) Ground: **Black: 14**

14

(-) E-Brake Status Output: **Black/White: 1**
[2] RAP Off: **Green/Black: 2**
(-) Door Status Output: **Green/White: 3**
[1] (AC) Tach Output: **Violet/White: 5**
(+) Brake Output: **Gray: 6**
(+) Accessory Output: **Gray/Black: 7**
Clutch Switch: **Violet/Green: 8**
Clutch Switch: **Violet/Brown: 9**
Immo. Data: **Yellow/Black: 10**
Immo. Data (veh.side): **Orange/Black: 11**
(-) Hood Status Output: **Blue/Red: 12**

12

Refer to the Vehicle Wiring Reference Charts (pages 10 to 15) for wire color and location.

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

10

2 | RF | Prog. Button | LED

DBALL/ DBALL2

(+)12V | RX | (-) Ground | TX

4

D2D
XKD2D65

(-) Driver Door Sense Trigger [2]

Immo. Data: **Green/Violet**, pin 2

Cut

1 2 3

Immobilizer Control Module

(+) Accessory: **Violet/Yellow**, pin 3

Ignition Control Switch

1 2 3 4 5 6

(+) Ignition: **Violet/Black**, pin 2

Clutch: **Yellow**, pin B

Clutch Switch Black 3-pin connector

A B C

For manual transmission only

- - - - 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] If the RAP Off wire is not connected, the radio will turn OFF but some lights will remain ON in the center console for 10 minutes. Connect this wire (Green/Black, pin 2/12) to the driver door sense trigger to avoid the issue. RAP Off/Door Trigger color and location can be found in the **Vehicle Wiring Reference Charts** (pages 10-15).

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

Type 2b (With T-Harness - Rev. 1)

⚠ **Use connectors labeled GM10.**

D2D only

ONLY if NOT equipped with OnStar

(-) Unlock: **Brown/White**, pin 15

(-) Lock: **Brown/Yellow**, pin 19

Lt. Blue

(-) Lock Output
(-) Unlock Output

BCM (under driver-side dash)

Starter

Remote

(-) Hood Pin —————— (-) Hood Status Input
(-) Ground ——————— (-) Ground
(+) 12V ———————————— (+) 12V

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

(-) Parking Lights: **Green/Gray**, pin 5

Light Switch Connector

(-) Parking Light Output

To Immobilizer Control Module (ICM) (under ignition switch, black connector)

GM10

GM10

To Immobilizer Control Module (ICM) (vehicle side)

Hood Pin

White/Black

Note: hood pin only required on vehicles not equipped with a factory hood pin

Ignition Barrel

Remote Start Safety Override Switch

(+) Ignition: **Pink**

Ignition Connector

Clutch Switch: **Violet/Brown**

(-) E-Brake: **Black/White**

[1] (AC) Tach: **Violet/White**

[2] RAP Off **Green/Black**

Clutch Switch: **Violet/Green**

To vehicle 6-pin connector

RF
Prog. Button
LED

DBALL/ DBALL2

(+) 12V
RX
(-) Ground
TX

D2D
XKD2D65

NOT USED **T-01**

(-) Driver Door Sense Trigger [2]

T-02

T-Harness THGM610 (Optional)

GM06

NOT USED

Clutch: **Yellow**, pin B

Clutch Switch (black connector)
For manual transmission only

T-02
Chevrolet Colorado
Chevrolet Silverado 1500
Chevrolet Silverado 2500/3500
Chevrolet Suburban
Chevrolet Tahoe
GMC Canyon
GMC Sierra 1500
GMC Sierra 2500/3500
GMC Yukon

Refer to the Vehicle Wiring Reference Charts (pages 10 to 15) for wire color and location.

Cut away the 4-pin connector and connect the three wires to the OBDII 16-pin connector.

Tan
Lt.Green
Tan/Black

CAN High: **Blue**, pin 6

SW CAN: **Green**, pin 1

Diagnostic Connector OBDII (connector side view)

CAN Low: **White**, pin 14

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

[2] If the RAP Off wire is not connected, the radio will turn OFF but some lights will remain ON in the center console for 10 minutes. Connect this wire (Green/Black, pin 2/12) to the driver door sense trigger to avoid the issue. RAP Off/Door Trigger color and location can be found in the **Vehicle Wiring Reference Charts** (pages 10-15).

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

Type 2c (With T-Harness - Rev. 2)

Use connectors labeled GM10.

D2D only

BCM (under driver-side dash)

ONLY if NOT equipped with OnStar

L.t. Blue

(-) Unlock: **Brown/White**, pin 15
(-) Lock: **Brown/Yellow**, pin 19

(-) Lock Output
(-) Unlock Output

Remote Starter

(-) Hood Pin ———— (-) Hood Status Input
(-) Ground ———— (-) Ground
(+) 12V ———— (+) 12V

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

Light Switch Connector

(-) Parking Lights: **Green/Gray**, pin 5

(-) Parking Light Output

Hood Pin

White/Black

Note: hood pin only required on vehicles not equipped with a factory hood pin

To **Immobilizer Control Module (ICM)** (under ignition switch, black connector)

GM10

To **Immobilizer Control Module (ICM)** (vehicle side)

GM10

Ignition Barrel

Ignition Connector

Remote Start Safety Override Switch

(+) Ignition: **Pink**

Clutch Switch: **Violet/Brown**
(-) E-Brake: **Black/White**
[1] (AC) Tach: **Violet/White**
[2] RAP Off: **Green/Black**
Clutch Switch: **Violet/Green**

(-) Driver Door Sense Trigger [2]

RF
Prog. Button
LED

DBALL/ DBALL2

(+) 12V
RX
(-) Ground
TX

XKD2D65

To vehicle 6-pin connector

NOT USED **T-01**

T-02

T-Harness THGM610 (Optional)

GM06

NOT USED

Clutch: **Yellow**, pin B

T-02
Chevrolet Colorado
Chevrolet Silverado 1500
Chevrolet Silverado 2500/3500
Chevrolet Suburban
Chevrolet Tahoe
GMC Canyon
GMC Sierra 1500
GMC Sierra 2500/3500
GMC Yukon

Clutch Switch (black connector) **For manual transmission only**

A B C

Cut away the 4-pin connector and connect the three wires to the OBDII 16-pin connector.

Tan
Lt.Green
Tan/Black

SW CAN: **Green,** pin 1
CAN High: **Blue**, pin 6
CAN Low: **White**, pin 14

Diagnostic Connector OBDII (connector side view)

Refer to the Vehicle Wiring Reference Charts (pages 10 to 15) for wire color and location.

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

[2] If the RAP Off wire is not connected, the radio will turn OFF but some lights will remain ON in the center console for 10 minutes. Connect this wire (Green/Black, pin 2/12) to the driver door sense trigger to avoid the issue. RAP Off/Door Trigger color and location can be found in the **Vehicle Wiring Reference Charts** (pages 10-15).

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

Vehicle Wiring Reference Chart - Type 2

⚠ Wire colors should only be used as a reference. You should always test a wire's function and pin location before connecting to it.

Wire Information				Connector Information		
Function	Color	Pin	Polarity	Location	Color	Pins
Chevrolet Colorado 2015						
Ignition	Violet/Black	1	(+)	Ignition Switch	Black	6
Accessory	Violet/Yellow	3	(+)	Ignition Switch	Black	6
Parking Lights	Lt. Green/Gray	5	(-)	Headlight Switch	Black	12
Immo. Data	Lt. Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	6	(-)	Driver Window Motor	Black	7
SW CAN	Lt Green	1	Data	OBDII Connector	Black	16
CAN High	Lt. Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16
Chevrolet Silverado 1500 2014-2015						
Ignition	Violet/Black	2	(+)	Ignition Switch	Black	6
Accessory	Violet/Yellow	3	(+)	Ignition Switch	Black	6
Parking Lights	Green/Gray	5	(-)	Headlight Switch	Black	12
Immo. Data	Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	25	(-)	BCM - under driver dash (without power windows)	Gray	26
	Gray	6	(-)	Driver Window Motor (with power windows)	Black	7
SW CAN	Green	1	Data	OBDII Connector	Black	16
CAN High	Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16
Chevrolet Silverado 2500/3500 2015						
Ignition	Violet/Black	2	(+)	Ignition Switch	Black	6
Accessory	Violet/Yellow	3	(+)	Ignition Switch	Black	6
Parking Lights	Green/Gray	5	(-)	Headlight Switch	Black	12
Immo. Data	Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	25	(-)	BCM - under driver dash (without power windows)	Gray	26
	Gray	6	(-)	Driver Window Motor (with power windows)	Black	7
SW CAN	Green	1	Data	OBDII Connector	Black	16
CAN High	Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16
Chevrolet Suburban 2015						
Ignition	Violet/Black	2	(+)	Ignition Switch	Black	6
Accessory	Violet/Yellow	3	(+)	Ignition Switch	Black	6
Parking Lights	Green/Gray	5	(-)	Headlight Switch	Black	12
Immo. Data	Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	25	(-)	BCM - under driver dash (without power windows)	Gray	26
	Gray	6	(-)	Driver Window Motor (with power windows)	Black	7
SW CAN	Green	1	Data	OBDII Connector	Black	16
CAN High	Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16
Chevrolet Tahoe 2015						
Ignition	Violet/Black	2	(+)	Ignition Switch	Black	6
Accessory	Violet/Yellow	3	(+)	Ignition Switch	Black	6
Parking Lights	Green/Gray	5	(-)	Headlight Switch	Black	12
Immo. Data	Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	25	(-)	BCM - under driver dash (without power windows)	Gray	26
	Gray	6	(-)	Driver Window Motor (with power windows)	Black	7
SW CAN	Green	1	Data	OBDII Connector	Black	16
CAN High	Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16

Vehicle Wiring Reference Chart - Type 2

⚠️ Wire colors should only be used as a reference. You should always test a wire's function and pin location before connecting to it.

Wire Information				Connector Information		
Function	Color	Pin	Polarity	Location	Color	Pins
GMC Canyon 2015						
Ignition	Violet/Black	1	(+)	Ignition Switch	Black	6
Accessory	Violet/Yellow	3	(+)	Ignition Switch	Black	6
Parking Lights	Lt.Green/Gray	5	(-)	Headlight Switch	Black	12
Immo. Data	Lt.Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	6	(-)	Driver Window Motor	Black	7
SW CAN	Lt.Green	1	Data	OBDII Connector	Black	16
CAN High	Lt. Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16
GMC Sierra 1500 2014-2015						
Ignition	Violet/Black	2	(+)	Ignition Switch	Black	6
Accessory	Violet/Yellow	3	(+)	Ignition Switch	Black	6
Parking Lights	Green/Gray	5	(-)	Headlight Switch	Black	12
Immo. Data	Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	25	(-)	BCM - under driver dash (without power windows)	Gray	26
	Gray	6	(-)	Driver Window Motor (with power windows)	Black	7
SW CAN	Green	1	Data	OBDII Connector	Black	16
CAN High	Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16
GMC Sierra 2500/3500 2015						
Ignition	Violet/Black	2	(+)	Ignition Switch	Black	6
Accessory	Violet/Yellow	3	(+)	Ignition Switch	Black	6
Parking Lights	Green/Gray	5	(-)	Headlight Switch	Black	12
Immo. Data	Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	25	(-)	BCM - under driver dash (without power windows)	Gray	26
	Gray	6	(-)	Driver Window Motor (with power windows)	Black	7
SW CAN	Green	1	Data	OBDII Connector	Black	16
CAN High	Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16
GMC Yukon 2015						
Ignition	Violet/Black	2	(+)	Ignition Switch	Black	6
Accessory	Violet/Yellow	3	(+)	Ignition Switch	Black	6
Parking Lights	Green/Gray	5	(-)	Headlight Switch	Black	12
Immo. Data	Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	25	(-)	BCM - under driver dash (without power windows)	Gray	26
	Gray	6	(-)	Driver Window Motor (with power windows)	Black	7
SW CAN	Green	1	Data	OBDII Connector	Black	16
CAN High	Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16

Type 3

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

Starter | **Remote**

(-) Lock Output
(-) Unlock Output
(-) Trunk Release Output
(+) Starter Output
(-) GWR (Status)

(-) Parking Lights: **Green/Gray**, pin 2

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

Light Switch Connector

1 2 3 4 5
6 7 8 9

(-) Parking Light Output

(+) Ignition Output

Refer to the Vehicle Wiring Reference Charts (pages 10 to 15) for wire color and location.

OBDII Diagnostic Connector

SW CAN: **Green**, pin 1
CAN High: **Blue**, pin 6

1 8
9 16

CAN Low: **White**, pin 14

Single Wire CAN: **Light Green**: 1
HS CAN High: **Tan/Black**: 3
HS CAN Low: **Tan**: 4
Immo. Data (conn side): **Orange/Red**: 10
Immo. Data (veh. side): **Yellow/Red**: 11
Immo. Data: **Brown/Red**: 12
(+) 12V ––– (+) 12V: **Red**: 13
(-) Ground ––– (-) Ground: **Black**: 14

(-) E-Brake Status Output: **Black/White**: 1
[2] RAP Off: **Green/Black**: 2
(-) Door Status Output: **Green/White**: 3
(-) Trunk Status Output: **Red/Black**: 4
[1] (AC) Tach Output: **Violet/White**: 5
(+) Brake Output: **Gray**: 6
(+) Accessory Output: **Gray/Black**: 7
Clutch Switch: **Violet/Green**: 8
Clutch Switch: **Violet/Brown**: 9
Immo. Data: **Yellow/Black**: 10
Immo. Data (veh.side): **Orange/Black**: 11
(-) Hood Status Output: **Blue/Red**: 12

14 | 12 | 10

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

RF
Prog. Button
LED

DBALL/ DBALL2

(+)12V
RX
(-) Ground
TX

XKD2D65

(-) Driver Door Sense Trigger [2]

Immo. Data: **Green/Violet**, pin 2

Cut

1 2 3

Immobilizer Control Module

Ignition Control Switch

6 5 4 3 2 1

(+) Accessory: **Violet/Yellow**, pin 6

(+) Ignition: **Violet/Black**, pin 4

Clutch: **Yellow**, pin B

Clutch Switch
Black 3-pin connector

A B C

For manual transmission only

––– 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] If the RAP Off wire is not connected, the radio will turn OFF but some lights will remain ON in the center console for 10 minutes. Connect this wire (Green/Black, pin 2/12) to the driver door sense trigger to avoid the issue. RAP Off/Door Trigger color and location can be found in the **Vehicle Wiring Reference Charts** (page 10-15).

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

Vehicle Wiring Reference Chart - Type 3

⚠️ Wire colors should only be used as a reference. You should always test a wire's function and pin location before connecting to it.

Wire Information				Connector Information		
Function	Color	Pin	Polarity	Location	Color	Pins
Chevrolet Spark 2013-2014						
Ignition	Violet/Black	4	(+)	Ignition switch.	Gray	6
Accessory	Violet/Yellow	6	(+)	Ignition switch.	Gray	6
Parking Lights	Green/Gray	2	(-)	Headlight Switch	Black	9
Immo. Data	Green/Violet	2	Data	Immo. Control Module, under Ignition Switch	Violet	3
RAP Off	Gray	22	(-)	BCM, above driver kick panel	Pink	27
SW CAN	Green	1	Data	OBDII Connector	Black	16
CAN High	Blue	6	Data	OBDII Connector	Black	16
CAN Low	White	14	Data	OBDII Connector	Black	16

Module Programming

⚠ Refer to the LED Diagnostics section on page 20 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
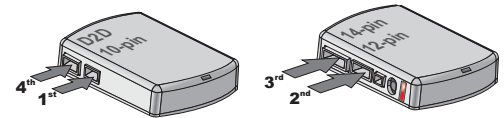
W2W Installation

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.
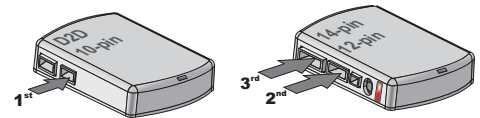
1	Wait until the LED turns ON solid red. **Note:** To skip the transponder programming and use convenience features only, press the programming button 5 times.	**Solid**
2	Press the Unlock button on the OEM remote and wait until the LED starts to flash orange.	Press Unlock button **&** **Flashes**
3	⚠ **Steps 3 to 5 must be executed within 5 seconds.** Turn the key to the IGN position. The LED will start to flash green.	Key IN **&** **Flashes**
4	Remove the key from the ignition barrel.	Key OUT
5	Insert and turn the key back to the IGN position. The LED will change to solid green for 3 secs. then OFF.	Key IN **&** Solid **&** Off
6	Remove the key from the ignition.	Key OUT
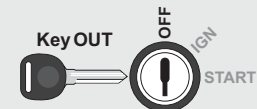
You have successfully completed the module programming sequence.

DIRECTED

Module Reset

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

1

D2D Installation

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

OR
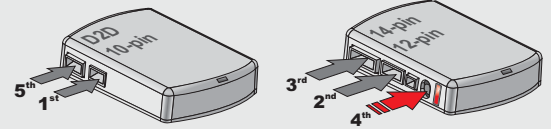
W2W Installation

If required for your installation, connect the 10-pin & 12-pin harnesses to the module. Press and hold the programming button, then connect the 14-pin harness to the module.
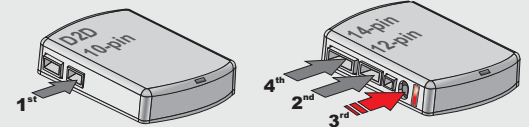
2 Wait 3 seconds until the LED turns ON solid orange then release the programming button. The LED then turns ON solid red.

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

D2D Installation

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

OR
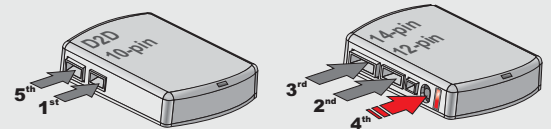
W2W Installation

If required for your installation, connect the 10-pin & 12-pin harnesses to the module. Press and hold the programming button, then connect the 14-pin harness to the module.
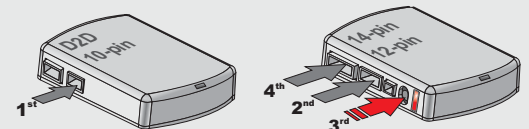
2 Wait 3 seconds until the LED turns ON solid orange, and wait 10 more seconds until the LED starts to flash orange and red.

Solid & Flashes

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

Release & Solid

Page 18

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 such as RSR; however, manual configuration of the features is possible using the information on this page.

* Default Option

Feat.	Operation	Flashes/Option	Description
1	RFTD Output Type	**1. No RF Output***	Module is connected to a remote starter using a standard installation.
		2. RFTD Output	Module is connected to an XL202 using an RSR or RXT installation (when available).
		3. SmartStart	Module is connected to SmartStart using an RSR or RXT installation (when available).
2	Unlock Driver Priority	**1. Driver priority***	Unlocks only the driver door when the button is first pressed, and unlocks all doors when it is pressed a second time within 5 seconds.
		2. All	Unlocks all doors when the button is first pressed.
3	Comfort Closure with Lock	**1. Disabled***	No action.
		2. Enabled for Windows	Module will perform windows roll up upon lock command.
		3. Enabled for Windows and Sunroof	Module will perform windows roll up and close sunroof upon lock command.
4	Heated Seats	**1. Disabled***	No operation.
		2. Enabled	When the feature is enabled, it will activate the Heated Seats and heated steering wheel.
5	Heated Seats/Defroster Temperature Control	**1. 32°F (0°C)***	When Heated Seats or Defroster feature is enabled, it will activate the feature upon remote start when
		2. 23°F (-5°C)	When Heated Seats or Defroster feature is enabled, it will activate the feature upon remote start when
		3. 41°F (+5°C)	When Heated Seats or Defroster feature is enabled, it will activate the feature upon remote start when
		4. Always ON	When Heated Seats or Defroster feature is enabled, it will activate the feature at any temperature.
6	Automatic Controlled Door Lock	**1. Disabled***	The vehicle doors will not lock automatically.
		2. Ignition	The vehicle doors will lock when ignition is turned ON and unlock when ignition is OFF.
		3. Brake	The vehicle doors will lock when the brake pedal is applied and unlock when ignition is OFF.
		4. Speed	The vehicle doors will lock when speed is sensed and unlock when ignition is OFF.
7	Smart OEM Alarm Control	1. Disabled	The OEM alarm will not be controlled by the interface upon remote start. No disarm or arm command will be executed at the beginning or end of the sequence; it must be controlled by the Remote Starter.
		2. Safelock	Smart OEM Alarm Control will behave like a standard Safelock feature on a remote starter. It will unlock at the beginning of the sequence, and relock after start and shutdown.
		3. Enabled*	Smart OEM Alarm Control will synchronize with the OEM alarm so that it will disarm and rearm the vehicle in the remote start sequence, only when required. Smart OEM Alarm Control will monitor the alarm and door lock status to detect if the disarm or rearm is required. If the vehicle is unlocked or is not equipped with factory alarm, the disarm/rearm will not be executed.

DIRECTED.

Feature Programming

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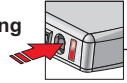
To enter feature programming routine
- Turn the ignition ON, then OFF.
- **Within 5 seconds**, press and HOLD the programming button until the LED turns ON orange (after 3 seconds). Release the Programming button.
- The LED will flash green once slowly to indicate the feature number is 1. After a short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

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

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

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

Once a feature is programmed
- Other features can be programmed.
- The feature programming can be exited.

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

LED Diagnostics & Troubleshooting

LED	Description	Troubleshooting
Module Programming		
Solid red	Waiting to begin the programming sequence.	Make sure that all the connections are correct (see wiring diagram).
Flashes red	VIN skipped.	Normal operation
Flashes green	Module has detected ignition. Waiting for bypass.	Normal operation
Flashes orange	High Speed CAN detected.	Normal operation
Solid red x 3 secs	Module was successfully programmed without VIN and without bypass.	Normal operation
Solid green x 3 secs	Module was successfully programmed.	Normal operation
Solid orange x 3 secs	Module was successfully programmed without VIN or bypass.	Normal operation
Module Programming - Error codes		
Flashes red x 2	High Speed CAN not detected.	Check the Tan - Tan/Black wire connections. Wake up the data bus by turning the ignition on and try again.
Flashes red x 3	Bypass data not detected.	Check the bypass line connection. If more than one wire is used, make sure that they are not inverted.
Flashes red x 4	Bypass processing error.	Bypass calculation failed. Reset the module and try again.
Flashes red x 10	VIN not supported.	Check the firmware against vehicle year and model coverage. Possible causes are that a vehicle build date or a country code has yet to be supported.
Flashes red 1x orange 1x	Key removal timeout	Failed to completely remove the key from ignition or turned the ignition OFF without removing the key while bypass sequence was executing. Cycle was done without removing the key. Reset module and retry module programming from step 1.
Flashes red 1x orange 2x	Key cycle timeout	Key cycle out of time or remote out of range.
External Module Synchronisation		
Flashes red, red then orange x 10	OBDII feature not supported.	Diagnostic data bus not detected.

DIRECTED.

LED Diagnostics & Troubleshooting

LED	Description	Troubleshooting
Active Ground While Running		
Flashes green	GROUND OUT ON (GWR) command received.	If doesn't flash green, the Ground While Running (status) signal was lost or was never received by the module.
Flashes red & orange	IGNITION ON command received.	If doesn't flash red & orange, the ignition signal was not received by the module.
Flashes green quickly	START ON command received.	If doesn't flash green quicly, the start signal was not received by the module.
D2D and W2W Commands		
Flashes orange x 1	LOCK command received.	
Flashes orange x 2	UNLOCK command received.	
Flashes orange x 3	TRUNK command received.	If the bypass module fails to flash, it means the module did not receive the signal. Commands can come from RF, W2W or D2D.
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.

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.

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

_____

_____

_____

_____

_____

_____

_____

_____

DIRECTED®