

Automotive Data Solutions Inc.

INSTALL GUIDE

ADS-AL(DL)-GM12-EN

GM12

AVAILABLE FOR: ADS-AL CA

Rev. Date: April 24, 2017

Doc. No.: ##38411##

U.S. PATENT NO. 8,856,780

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BUICK

CHEVROLET

GMC

NOTICE: The manufacturer will accept no responsibility for any electrical damage resulting from improper installation of this product, be that either damage to the vehicle itself or to the installed device. This device must be installed by a certified technician. This guide has been written for properly trained technicians; a certain level of skill & knowledge is therefore assumed. Please review the Installation Guide carefully before beginning any work.

INSTALL TYPE SELECTION - 1 OF 2

MAKE	MODEL	YEAR	INSTALL TYPE	FEATURES															
				DATA IMMOBILIZER BYPASS	3X LOCK REMOTE START	PRIORITY UNLOCK	DOOR LOCK	DOOR UNLOCK	ARM OEM ALARM	DISARM OEM ALARM	TRUNK/HATCH RELEASE	DOOR STATUS OUTPUT	TRUNK STATUS OUTPUT	BRAKE PEDAL STATUS OUTPUT	TACHOMETER OUTPUT	DATA/MUX STARTER CTRL	HOOD STATUS OUTPUT*	RAP SHUTDOWN CTRL	E-BRAKE OUTPUT
BUICK	Regal Flip-Key AT	17	4	•		•	•	•	•	•	•	•	•	•	•	•	•	•	
	Regal Flip-Key MT	17	5	•		•	•	•	•	•	•	•	•	•	•	•	•	•	
CHEVROLET	Colorado STD key w/OnStar AT	17	4	•	•	•	•	•	•	•		•		•	•	•	•	•	
	Colorado STD key w/o OnStar w/o OEM alarm AT	17	8	•	•							•		•	•	•	•	•	
	Colorado STD key w/o OnStar w/ OEM alarm AT	17	9	•	•							•		•	•	•	•	•	
	Cruze Flip-Key AT	17	4	•		•	•	•	•	•	•	•	•	•	•	•	•	•	
	Cruze Flip-Key MT	17	5	•		•	•	•	•	•	•	•	•	•	•	•	•	•	
	Impala Flip-Key AT	17	6	•		•	•	•	•	•	•	•	•	•	•	•	•	•	
	Silverado 1500 STD key w/ OnStar AT	17	1	•	•	•	•	•	•			•	•	•	•	•	•	•	
	Silverado 1500 STD key w/o OnStar w/o OEM Alarm AT	17	2	•	•							•	•	•	•	•	•	•	
	Silverado 1500 STD key w/o OnStar w/ OEM Alarm AT	17	3	•	•							•	•	•	•	•	•	•	
	Silverado 2500 / 3500 STD key w/ OnStar AT	17	1	•	•	•	•	•	•			•	•	•	•	•	•	•	
	Silverado 2500 / 3500 STD key w/o OnStar w/o OEM Alarm AT	17	2	•	•							•	•	•	•	•	•	•	
	Silverado 2500 / 3500 STD key w/o OnStar w/ OEM Alarm AT	17	3	•	•							•	•	•	•	•	•	•	
	Sonic Sedan Flip-Key AT	17	6	•		•	•	•	•	•	•	•	•	•	•	•	•	•	
	Sonic Sedan Flip-Key MT	17	7	•		•	•	•	•	•	•	•	•	•	•	•	•	•	
	Suburban STD key w/ OnStar AT	17	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Suburban STD key STD key w/o OnStar w/o OEM Alarm AT	17	2	•	•							•	•	•	•	•	•	•	
	Suburban STD key STD key w/o OnStar w/ OEM Alarm AT	17	3	•	•							•	•	•	•	•	•	•	
	Tahoe STD key w/ OnStar AT	17	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Tahoe STD key STD key w/o OnStar w/o OEM Alarm AT	17	2	•	•							•	•	•	•	•	•	•	
	Tahoe STD key STD key w/o OnStar w/ OEM Alarm AT	17	3	•	•							•	•	•	•	•	•	•	
	Trax Flip-Key AT	17	4	•		•	•	•	•	•	•	•	•	•	•	•	•	•	

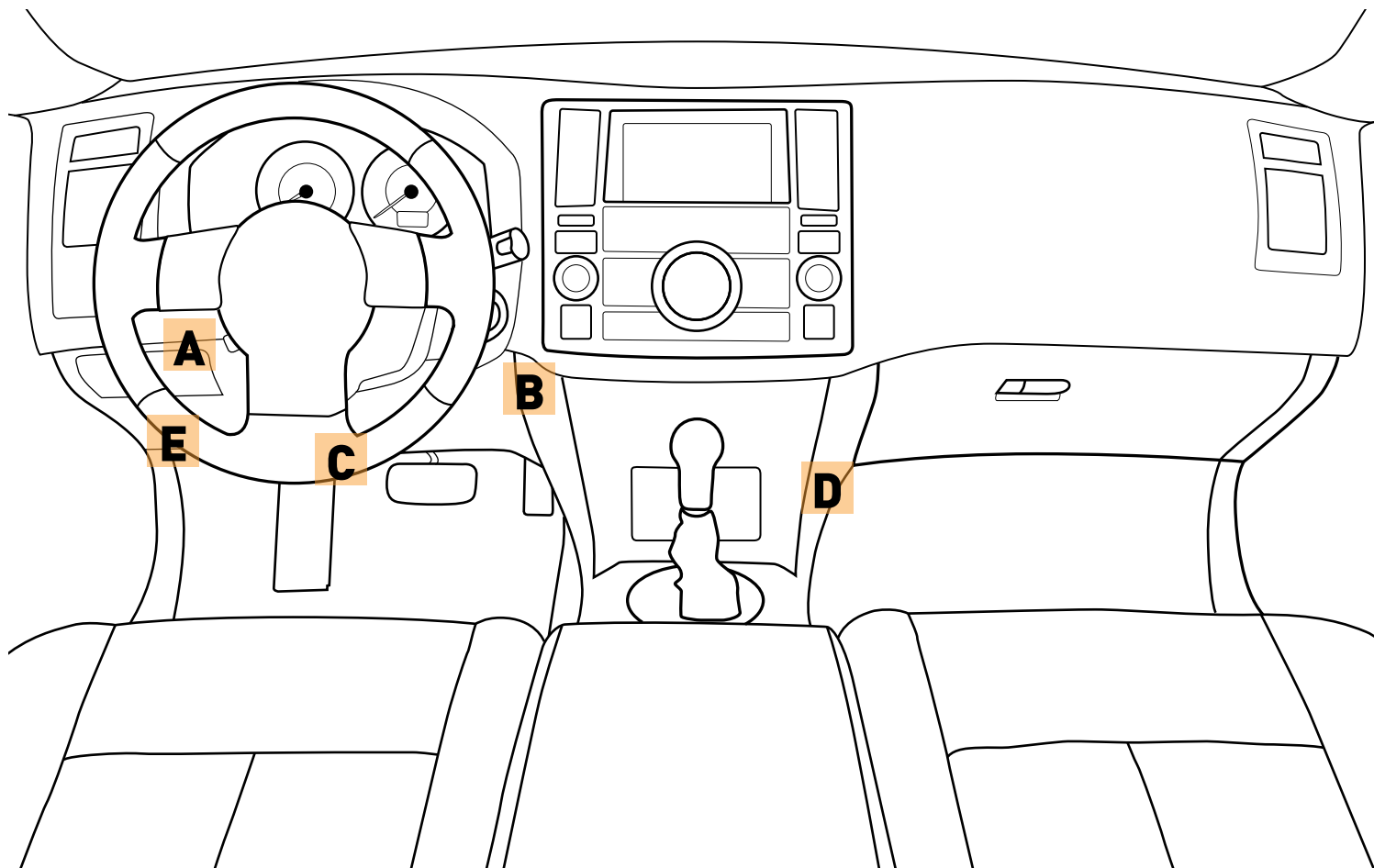
* Available only if vehicle is equipped with factory hood switch.

INSTALL TYPE SELECTION - 2 OF 2

MAKE	MODEL	YEAR	INSTALL TYPE	FEATURES															
				DATA IMMOBILIZER BYPASS	3X LOCK REMOTE START	PRIORITY UNLOCK	DOOR LOCK	DOOR UNLOCK	ARM OEM ALARM	DISARM OEM ALARM	TRUNK/HATCH RELEASE	DOOR STATUS OUTPUT	TRUNK STATUS OUTPUT	BRAKE PEDAL STATUS OUTPUT	TACHOMETER OUTPUT	DATA/MUX STARTER CTRL	HOOD STATUS OUTPUT*	RAP SHUTDOWN CTRL	E-BRAKE OUTPUT
GMC	Canyon STD key w/OnStar AT	17	4	•	•	•	•	•	•	•		•		•	•	•	•	•	•
	Canyon STD key w/o OnStar w/o OEM Alarm AT	17	8	•	•							•		•	•	•	•	•	•
	Canyon STD key w/o OnStar w/ OEM Alarm AT	17	9	•	•							•		•	•	•	•	•	•
	Sierra 1500 STD key w/ OnStar AT	17	1	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•
	Sierra 1500 STD key w/o OnStar w/o OEM Alarm AT	17	2	•	•							•	•	•	•	•	•	•	•
	Sierra 1500 STD key w/o OnStar w/ OEM Alarm AT	17	3	•	•							•	•	•	•	•	•	•	•
	Sierra 2500 / 3500 STD key w/ OnStar AT	17	1	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•
	Sierra 2500 / 3500 STD key w/o OnStar w/o OEM Alarm AT	17	2	•	•							•	•	•	•	•	•	•	•
	Sierra 2500 / 3500 STD key w/o OnStar w/ OEM Alarm AT	17	3	•	•							•	•	•	•	•	•	•	•
	Yukon STD key w/ OnStar AT	17	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Yukon STD key STD key w/o OnStar w/o OEM Alarm AT	17	2	•	•							•	•	•	•	•	•	•	•
	Yukon STD key STD key w/o OnStar w/ OEM Alarm AT	17	3	•	•							•	•	•	•	•	•	•	•

* Available only if vehicle is equipped with factory hood switch.

COMPONENT LOCATOR



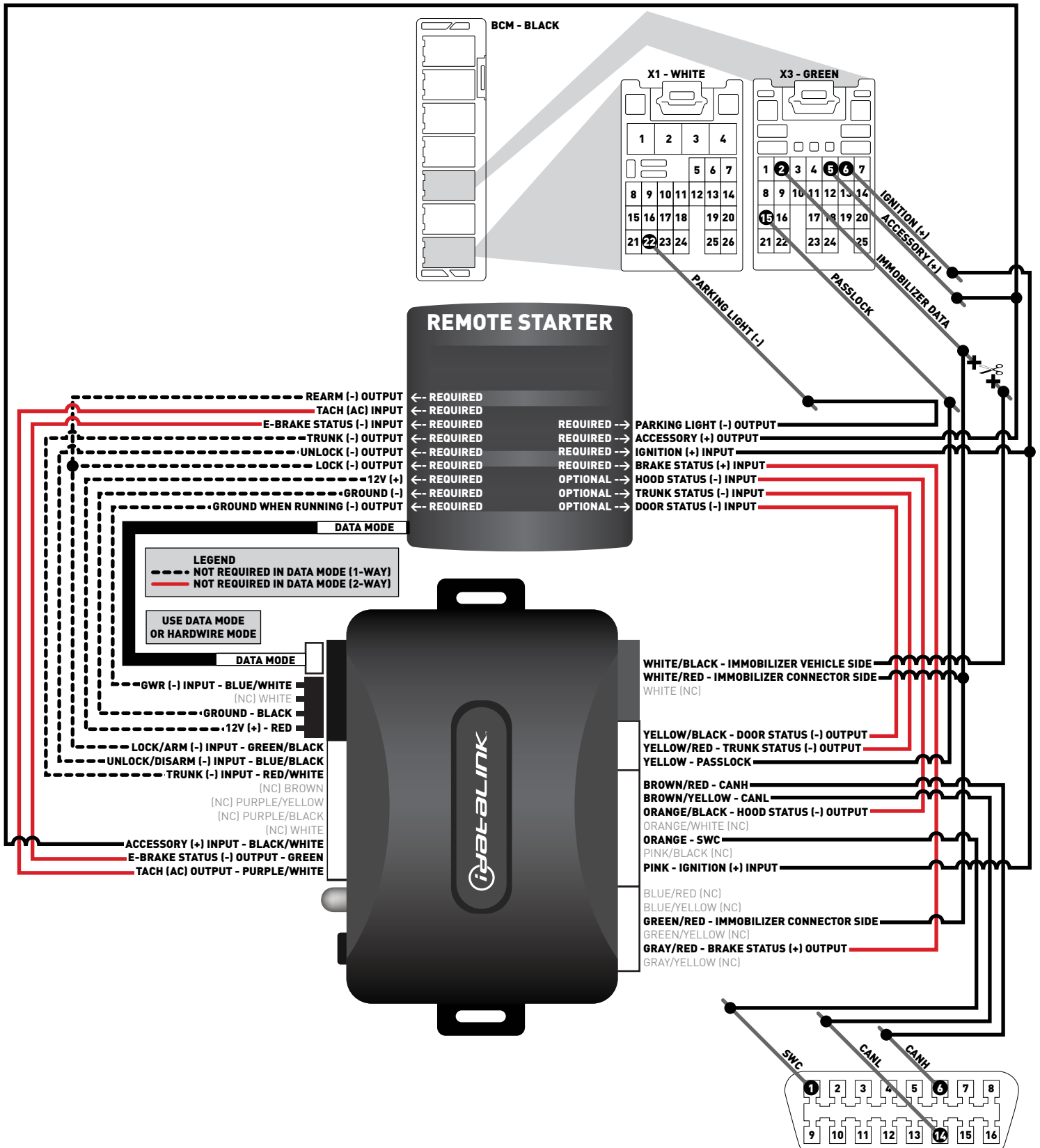
TYPE 1 - WIRE CROSS REFERENCE CHART - 1 OF 2

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
GMC	Sierra 1500 AT STD key w/ OnStar	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	[+]	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	[+]	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	[MUX]	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	[-]	BCM, left side of steering column	A
	Sierra 2500 / 3500 AT STD key w/ OnStar	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	[+]	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	[+]	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	[MUX]	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	[-]	BCM, left side of steering column	A
	Yukon AT STD key w/ OnStar	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	[+]	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	[+]	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	[MUX]	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	[-]	BCM, left side of steering column	A
CHEVROLET	Silverado 1500 AT STD key w/ OnStar	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	[+]	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	[+]	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	[MUX]	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	[-]	BCM, left side of steering column	A
	Silverado 2500 / 3500 AT STD key w/ OnStar	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	[+]	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	[+]	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	[MUX]	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	[-]	BCM, left side of steering column	A

TYPE 1 - WIRE CROSS REFERENCE CHART - 2 OF 2

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
CHEVROLET	Suburban AT STD key w/ OnStar	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	(-)	BCM, left side of steering column	A
	Tahoe AT STD key w/ OnStar	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	(-)	BCM, left side of steering column	A

TYPE 1 - WIRING DIAGRAM - 1 OF 1



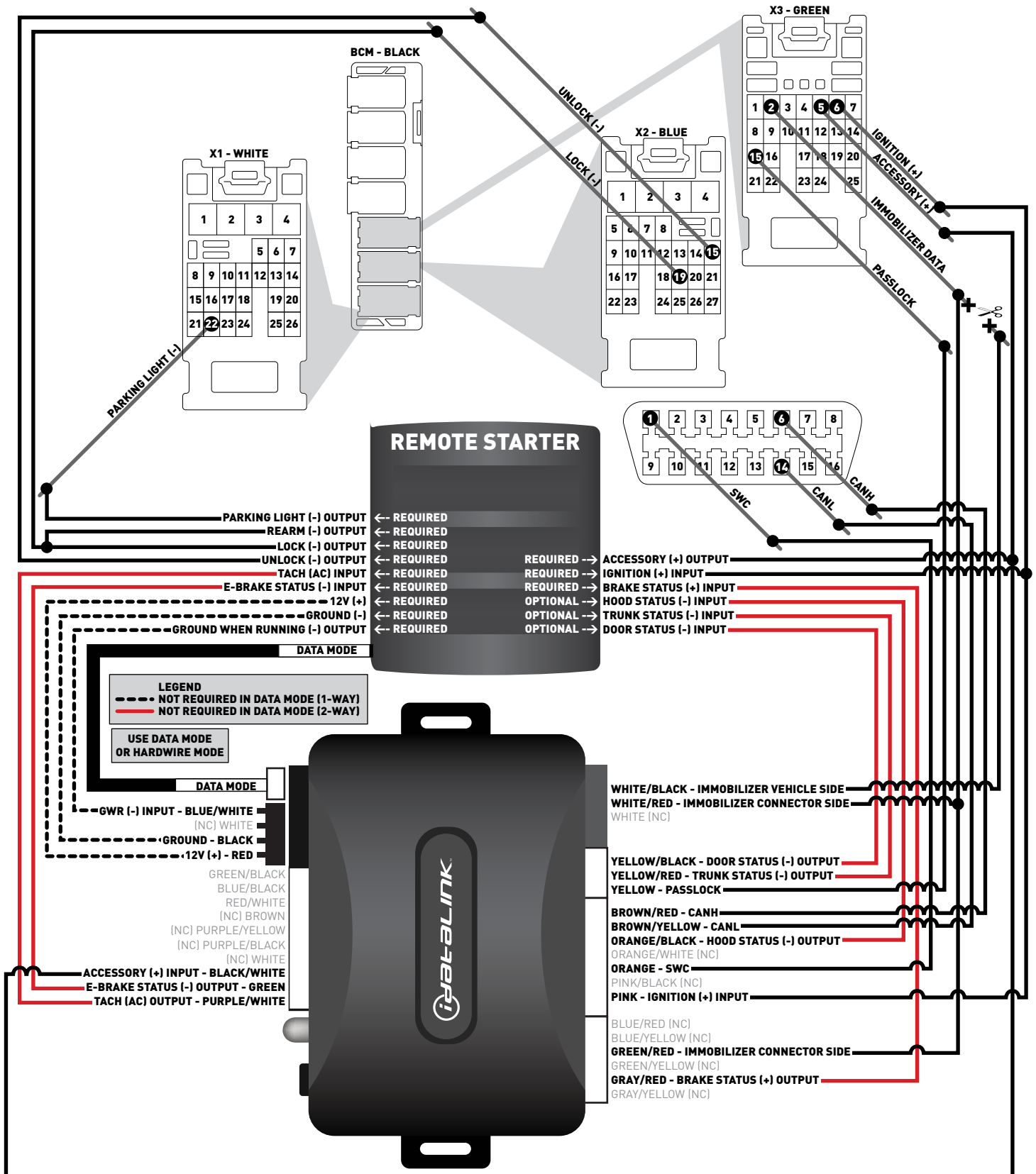
TYPE 2 - WIRE CROSS REFERENCE CHART - 1 OF 2

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
GMC	Sierra 1500 w/o OnStar w/o OEM Alarm STD key AT	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	(-)	BCM, left side of steering column	A
			Lock	X2	Blue	27 pin	19	Brown/Yellow	(-)	BCM, left side of steering column	A
			Unlock	X2	Blue	27 pin	15	Brown/White	(-)	BCM, left side of steering column	A
	Sierra 2500 / 3500 w/o OnStar w/o OEM Alarm STD key AT	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	(-)	BCM, left side of steering column	A
			Lock	X2	Blue	27 pin	19	Brown/Yellow	(-)	BCM, left side of steering column	A
			Unlock	X2	Blue	27 pin	15	Brown/White	(-)	BCM, left side of steering column	A
	Yukon w/o OnStar w/o OEM Alarm STD key AT	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	(-)	BCM, left side of steering column	A
			Lock	X2	Blue	27 pin	19	Brown/Yellow	(-)	BCM, left side of steering column	A
			Unlock	X2	Blue	27 pin	15	Brown/White	(-)	BCM, left side of steering column	A
CHEVROLET	Silverado 1500 w/o OnStar w/o OEM Alarm STD key AT	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	(-)	BCM, left side of steering column	A
			Lock	X2	Blue	27 pin	19	Brown/Yellow	(-)	BCM, left side of steering column	A
			Unlock	X2	Blue	27 pin	15	Brown/White	(-)	BCM, left side of steering column	A

TYPE 2 - WIRE CROSS REFERENCE CHART - 2 OF 2

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
CHEVROLET	Silverado 2500 / 3500 w/o OnStar w/o OEM Alarm STD key AT	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	(-)	BCM, left side of steering column	A
			Lock	X2	Blue	27 pin	19	Brown/Yellow	(-)	BCM, left side of steering column	A
			Unlock	X2	Blue	27 pin	15	Brown/White	(-)	BCM, left side of steering column	A
	Suburban w/o OnStar w/o OEM Alarm STD key AT	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	(-)	BCM, left side of steering column	A
			Lock	X2	Blue	27 pin	19	Brown/Yellow	(-)	BCM, left side of steering column	A
			Unlock	X2	Blue	27 pin	15	Brown/White	(-)	BCM, left side of steering column	A
	Tahoe w/o OnStar w/o OEM Alarm STD key AT	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	(-)	BCM, left side of steering column	A
			Lock	X2	Blue	27 pin	19	Brown/Yellow	(-)	BCM, left side of steering column	A
			Unlock	X2	Blue	27 pin	15	Brown/White	(-)	BCM, left side of steering column	A

TYPE 2 - WIRING DIAGRAM - 1 OF 1



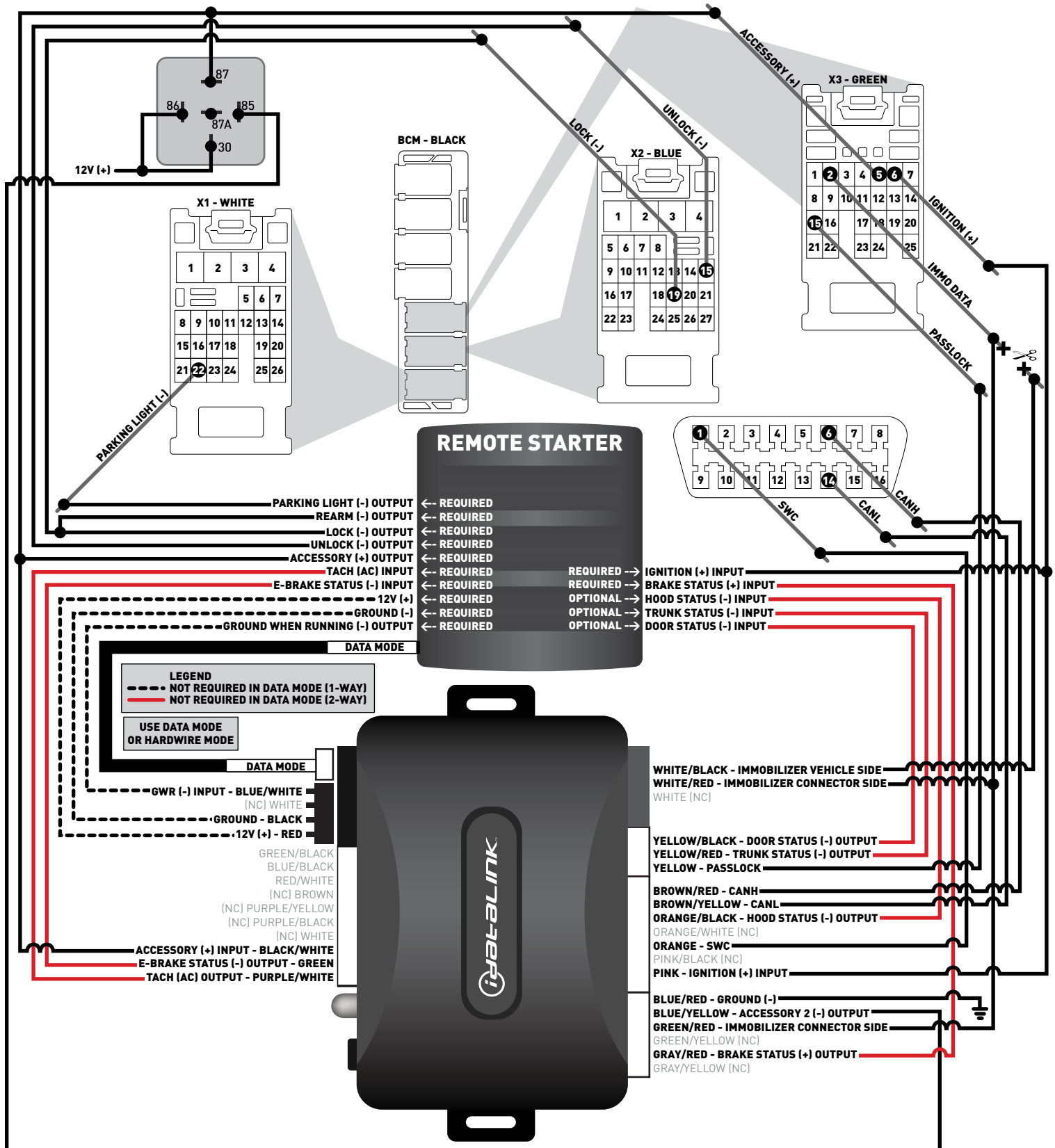
TYPE 3 - WIRE CROSS REFERENCE CHART - 1 OF 2

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
GMC	Sierra 1500 w/o OnStar w/ OEM Alarm STD key AT	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	[+]	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	[+]	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	[MUX]	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	[-]	BCM, left side of steering column	A
			Lock	X2	Blue	27 pin	19	Brown/Yellow	[-]	BCM, left side of steering column	A
			Unlock	X2	Blue	27 pin	15	Brown/White	[-]	BCM, left side of steering column	A
	Sierra 2500 / 3500 w/o OnStar w/ OEM Alarm STD key AT	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	[+]	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	[+]	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	[MUX]	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	[-]	BCM, left side of steering column	A
			Lock	X2	Blue	27 pin	19	Brown/Yellow	[-]	BCM, left side of steering column	A
			Unlock	X2	Blue	27 pin	15	Brown/White	[-]	BCM, left side of steering column	A
	Yukon w/o OnStar w/ OEM Alarm STD key AT	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	[+]	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	[+]	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	[MUX]	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	[-]	BCM, left side of steering column	A
			Lock	X2	Blue	27 pin	19	Brown/Yellow	[-]	BCM, left side of steering column	A
			Unlock	X2	Blue	27 pin	15	Brown/White	[-]	BCM, left side of steering column	A
CHEVROLET	Silverado 2500 / 3500 w/o OnStar w/ OEM Alarm STD key AT	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	[+]	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	[+]	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	[MUX]	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	[-]	BCM, left side of steering column	A
			Lock	X2	Blue	27 pin	19	Brown/Yellow	[-]	BCM, left side of steering column	A
			Unlock	X2	Blue	27 pin	15	Brown/White	[-]	BCM, left side of steering column	A

TYPE 3 - WIRE CROSS REFERENCE CHART - 2 OF 2

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
CHEVROLET	Silverado 2500 / 3500 w/o OnStar w/ OEM Alarm STD key AT	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	(-)	BCM, left side of steering column	A
			Lock	X2	Blue	27 pin	19	Brown/Yellow	(-)	BCM, left side of steering column	A
			Unlock	X2	Blue	27 pin	15	Brown/White	(-)	BCM, left side of steering column	A
	Suburban w/o OnStar w/ OEM Alarm STD key AT	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	(-)	BCM, left side of steering column	A
			Lock	X2	Blue	27 pin	19	Brown/Yellow	(-)	BCM, left side of steering column	A
			Unlock	X2	Blue	27 pin	15	Brown/White	(-)	BCM, left side of steering column	A
	Tahoe w/o OnStar w/ OEM Alarm STD key AT	17	CanH	~	~	16 pin	06	Blue	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	White	[DATA]	OBDII connector	~
			Swc	~	~	16 pin	01	Green	[DATA]	OBDII connector	~
			Ignition	X3	Green	25 pin	06	Purple/Black	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	(-)	BCM, left side of steering column	A
			Lock	X2	Blue	27 pin	19	Brown/Yellow	(-)	BCM, left side of steering column	A
			Unlock	X2	Blue	27 pin	15	Brown/White	(-)	BCM, left side of steering column	A

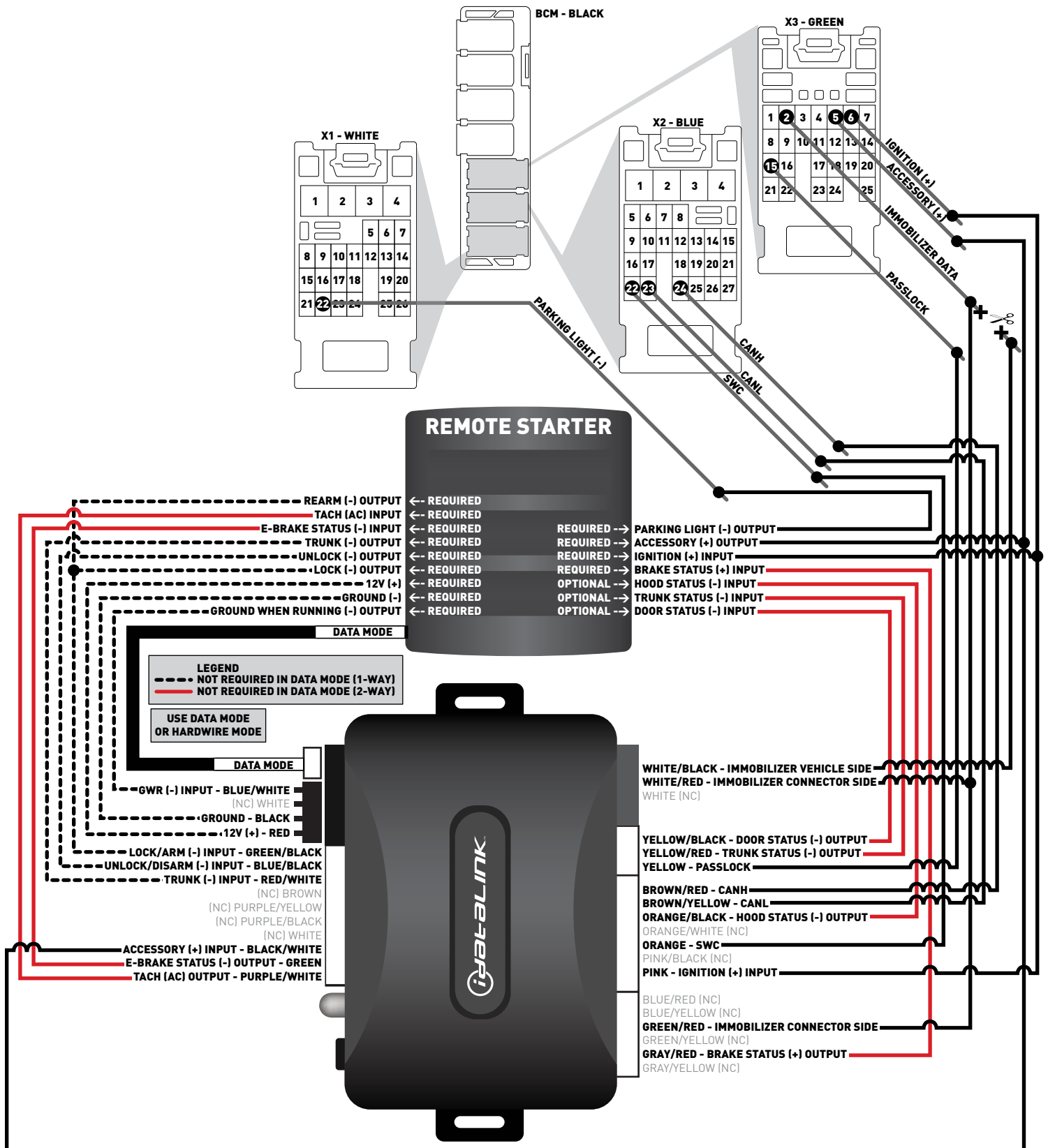
TYPE 3 - WIRING DIAGRAM - 1 OF 1



TYPE 4 - WIRE CROSS REFERENCE CHART - 1 OF 1

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
BUICK	Regal AT Flip-Key	17	CanH	X2	Blue	27 pin	24	Blue	[DATA]	BCM, left side of steering column	A
			CanL	X2	Blue	27 pin	23	White	[DATA]	BCM, left side of steering column	A
			Swc	X2	Blue	27 pin	22	Green	[DATA]	BCM, left side of steering column	A
			Ignition	X3	Green	25 pin	06	Purple/Black	[+]	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	[+]	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	LtGreen/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	[MUX]	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	Green/Gray	[-]	BCM, left side of steering column	A
CHEVROLET	Cruze AT Flip-Key	17	CanH	X2	Blue	27 pin	24	Blue	[DATA]	BCM, Above driver kick panel	E
			CanL	X2	Blue	27 pin	23	White	[DATA]	BCM, Above driver kick panel	E
			Swc	X2	Blue	27 pin	22	Green	[DATA]	BCM, Above driver kick panel	E
			Ignition	X3	Green	25 pin	06	Yellow/Blue	[+]	BCM, Above driver kick panel	E
			Accessory	X3	Green	25 pin	05	Blue/White	[+]	BCM, Above driver kick panel	E
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, Above driver kick panel	E
			Passlock	X3	Green	25 pin	15	White/Orange	[MUX]	BCM, Above driver kick panel	E
			Parking Light	X1	White	26 pin	22	Green/Gray	[-]	BCM, Above driver kick panel	E
	Trax AT Flip-Key	17	CanH	X2	Blue	27 pin	24	Blue	[DATA]	BCM, left side of steering column	A
			CanL	X2	Blue	27 pin	23	White	[DATA]	BCM, left side of steering column	A
			Swc	X2	Blue	27 pin	22	Green	[DATA]	BCM, left side of steering column	A
			Ignition	X3	Green	25 pin	06	Purple/Black	[+]	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	[+]	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	LtGreen/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	[MUX]	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	Green/Gray	[-]	BCM, left side of steering column	A
	Colorado w/ OnStar AT STD key	17	CanH	X2	Blue	27 pin	24	Blue	[DATA]	BCM, left side of steering column	A
			CanL	X2	Blue	27 pin	23	White	[DATA]	BCM, left side of steering column	A
			Swc	X2	Blue	27 pin	22	Green	[DATA]	BCM, left side of steering column	A
			Ignition	X3	Green	25 pin	06	Purple/Black	[+]	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	[+]	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	LtGreen/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	[MUX]	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	Green/Gray	[-]	BCM, left side of steering column	A
GMC	Canyon w/ OnStar AT STD key	17	CanH	X2	Blue	27 pin	24	Blue	[DATA]	BCM, left side of steering column	A
			CanL	X2	Blue	27 pin	23	White	[DATA]	BCM, left side of steering column	A
			Swc	X2	Blue	27 pin	22	Green	[DATA]	BCM, left side of steering column	A
			Ignition	X3	Green	25 pin	06	Purple/Black	[+]	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	[+]	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	LtGreen/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	[MUX]	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	Green/Gray	[-]	BCM, left side of steering column	A

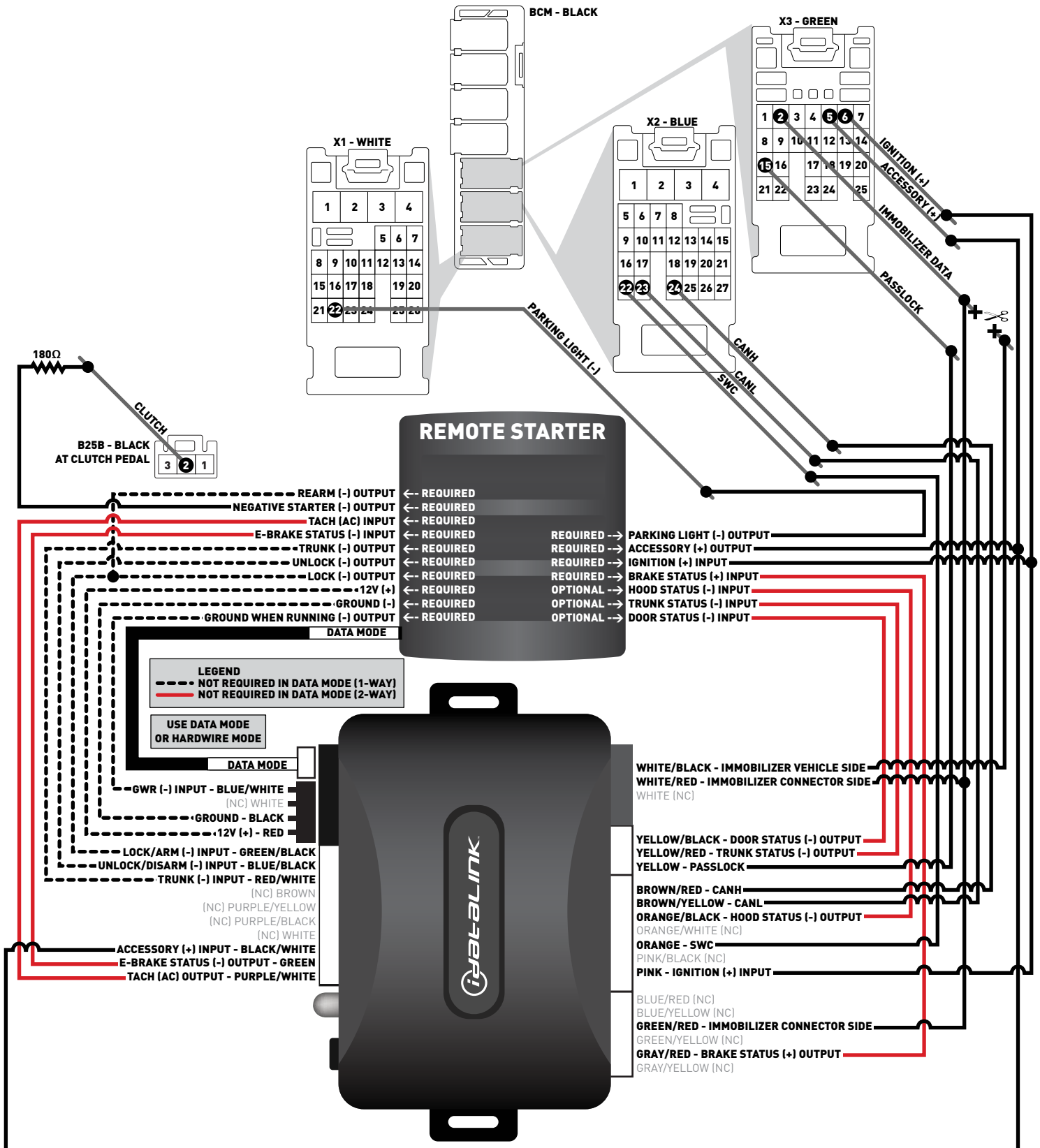
TYPE 4 - WIRING DIAGRAM - 1 OF 1



TYPE 5 - WIRE CROSS REFERENCE CHART - 1 OF 1

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
BUICK	Regal MT Flip-Key	17	CanH	X2	Blue	27 pin	24	Blue	[DATA]	BCM, left side of steering column	A
			CanL	X2	Blue	27 pin	23	White	[DATA]	BCM, left side of steering column	A
			Swc	X2	Blue	27 pin	22	Green	[DATA]	BCM, left side of steering column	A
			Ignition	X3	Green	25 pin	06	Purple/Black	[+]	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	[+]	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	LtGreen/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	[MUX]	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	Green/Gray	[-]	BCM, left side of steering column	A
			Clutch	B25B	Black	3 pin	02	Yellow	[MUX]	At clutch pedal	C
CHEVROLET	Cruze MT Flip-Key	16	CanH	X2	Blue	27 pin	24	Blue	[DATA]	BCM, Above driver kick panel	E
			CanL	X2	Blue	27 pin	23	White	[DATA]	BCM, Above driver kick panel	E
			Swc	X2	Blue	27 pin	22	Green	[DATA]	BCM, Above driver kick panel	E
			Ignition	X3	Green	25 pin	06	Yellow/Blue	[+]	BCM, Above driver kick panel	E
			Accessory	X3	Green	25 pin	05	Blue/White	[+]	BCM, Above driver kick panel	E
			Immobilizer Data	X3	Green	25 pin	02	Green/Purple	[DATA]	BCM, Above driver kick panel	E
			Passlock	X3	Green	25 pin	15	White/Orange	[MUX]	BCM, Above driver kick panel	E
			Parking Light	X1	White	26 pin	22	Green/Gray	[-]	BCM, Above driver kick panel	E
			Clutch	B25B	Black	3 pin	02	Yellow	[MUX]	At clutch pedal	C

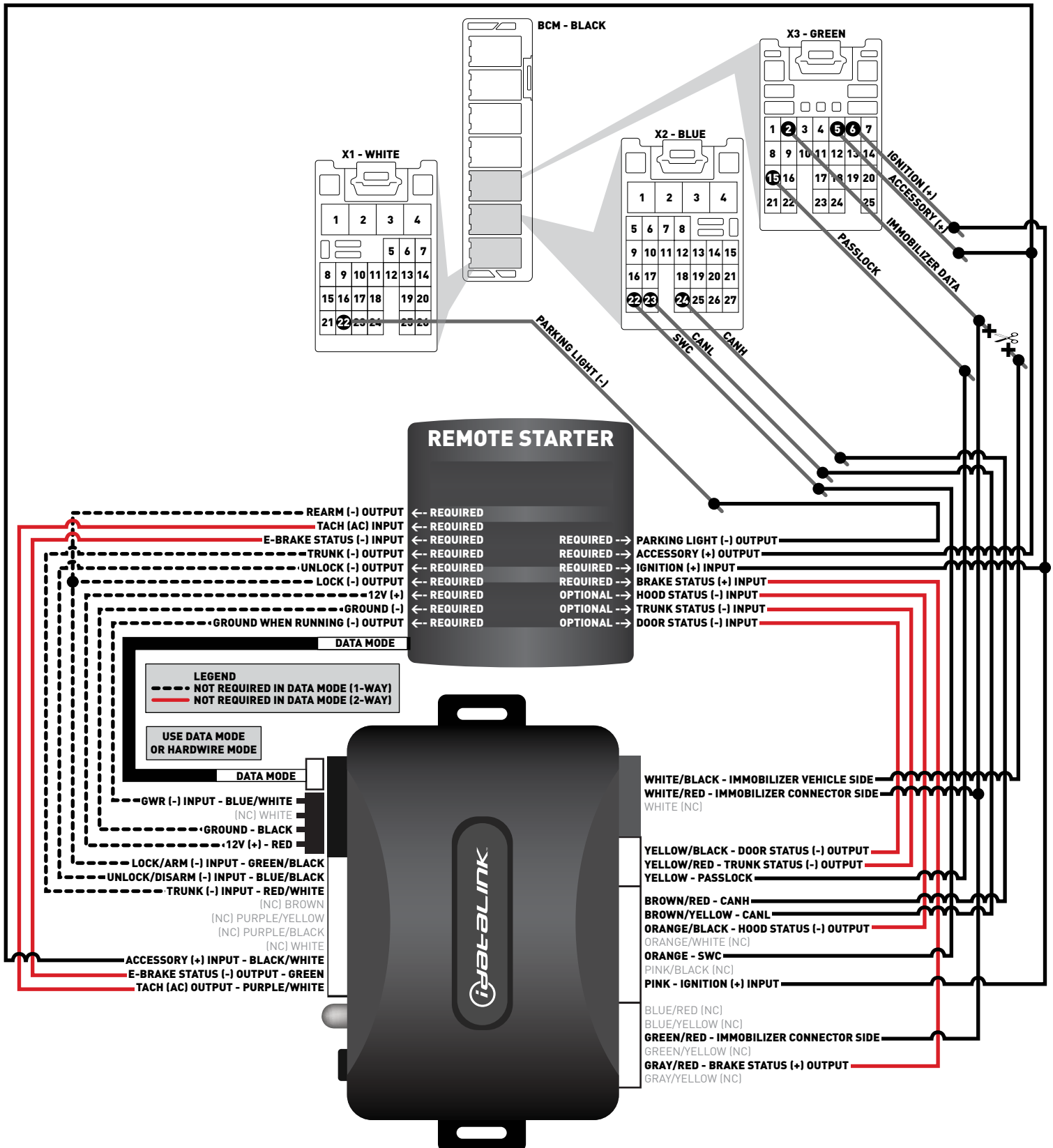
TYPE 5 - WIRING DIAGRAM - 1 OF 1



TYPE 6 - WIRE CROSS REFERENCE CHART - 1 OF 1

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
CHEVROLET	Sonic Sedan AT Flip-Key	17	CanH	X2	Blue	27 pin	24	Blue	(DATA)	BCM, left side of steering column	A
			CanL	X2	Blue	27 pin	23	White	(DATA)	BCM, left side of steering column	A
			Swc	X2	Blue	27 pin	22	Green	(DATA)	BCM, left side of steering column	A
			Ignition	X3	Green	25 pin	06	Purple/Black	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	LtGreen/Purple	(DATA)	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	(-)	BCM, left side of steering column	A
	Impala AT Flip-Key	17	CanH	X2	Blue	27 pin	24	Blue	(DATA)	BCM, left side of steering column	A
			CanL	X2	Blue	27 pin	23	White	(DATA)	BCM, left side of steering column	A
			Swc	X2	Blue	27 pin	22	Green	(DATA)	BCM, left side of steering column	A
			Ignition	X3	Green	25 pin	06	Purple	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	LtGreen/Purple	(DATA)	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	(-)	BCM, left side of steering column	A

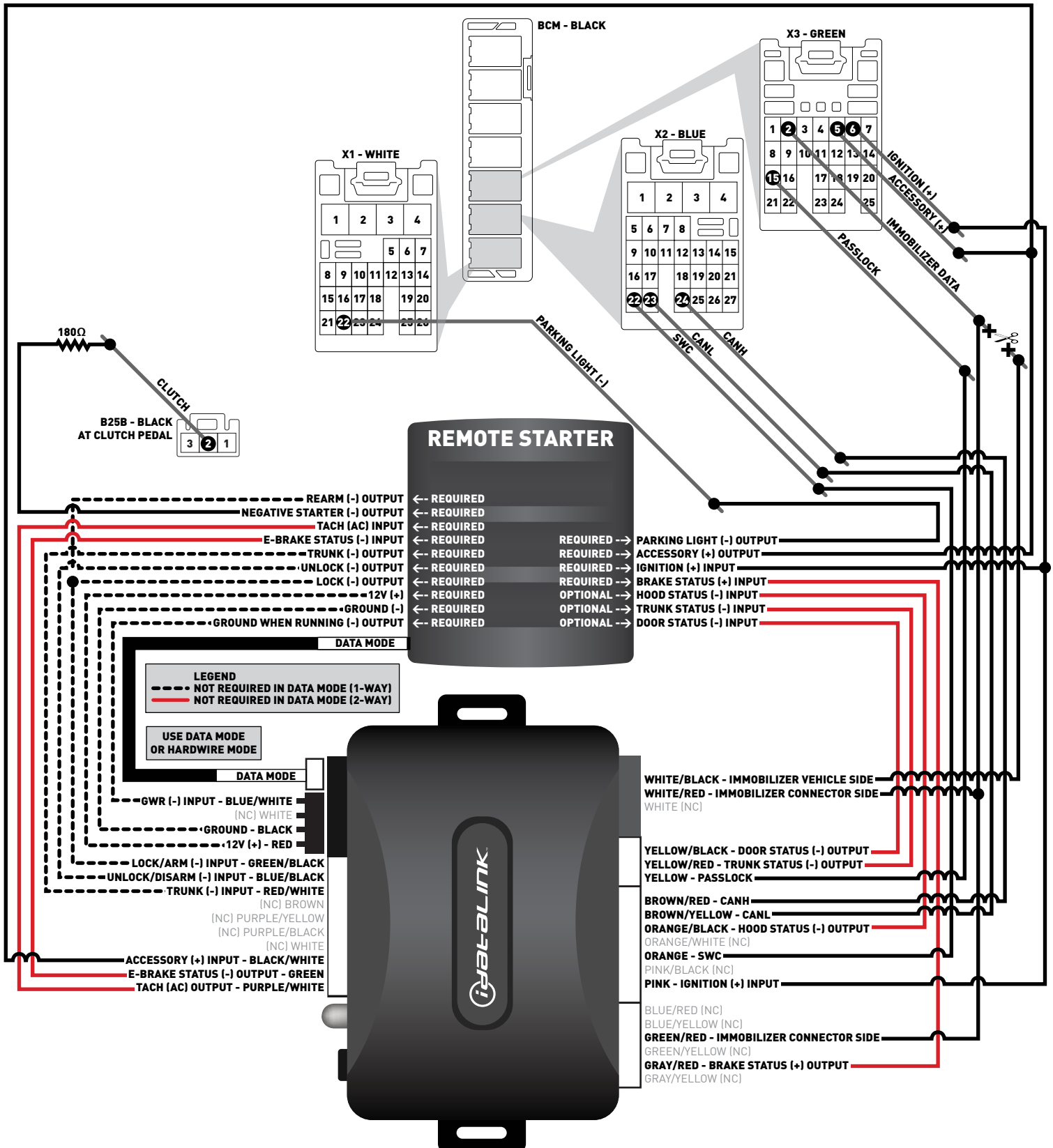
TYPE 6 - WIRING DIAGRAM - 1 OF 1



TYPE 7 - WIRE CROSS REFERENCE CHART - 1 OF 1

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
CHEVROLET	Sonic Sedan MT Flip-Key	17	CanH	X2	Blue	27 pin	24	Blue	(DATA)	BCM, left side of steering column	A
			CanL	X2	Blue	27 pin	23	White	(DATA)	BCM, left side of steering column	A
			Swc	X2	Blue	27 pin	22	Green	(DATA)	BCM, left side of steering column	A
			Ignition	X3	Green	25 pin	06	Purple/Black	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	LtGreen/Purple	(DATA)	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	LtGreen/Gray	(-)	BCM, left side of steering column	A
			Clutch	B25B	Black	3 pin	02	Yellow	(MUX)	At clutch pedal	C

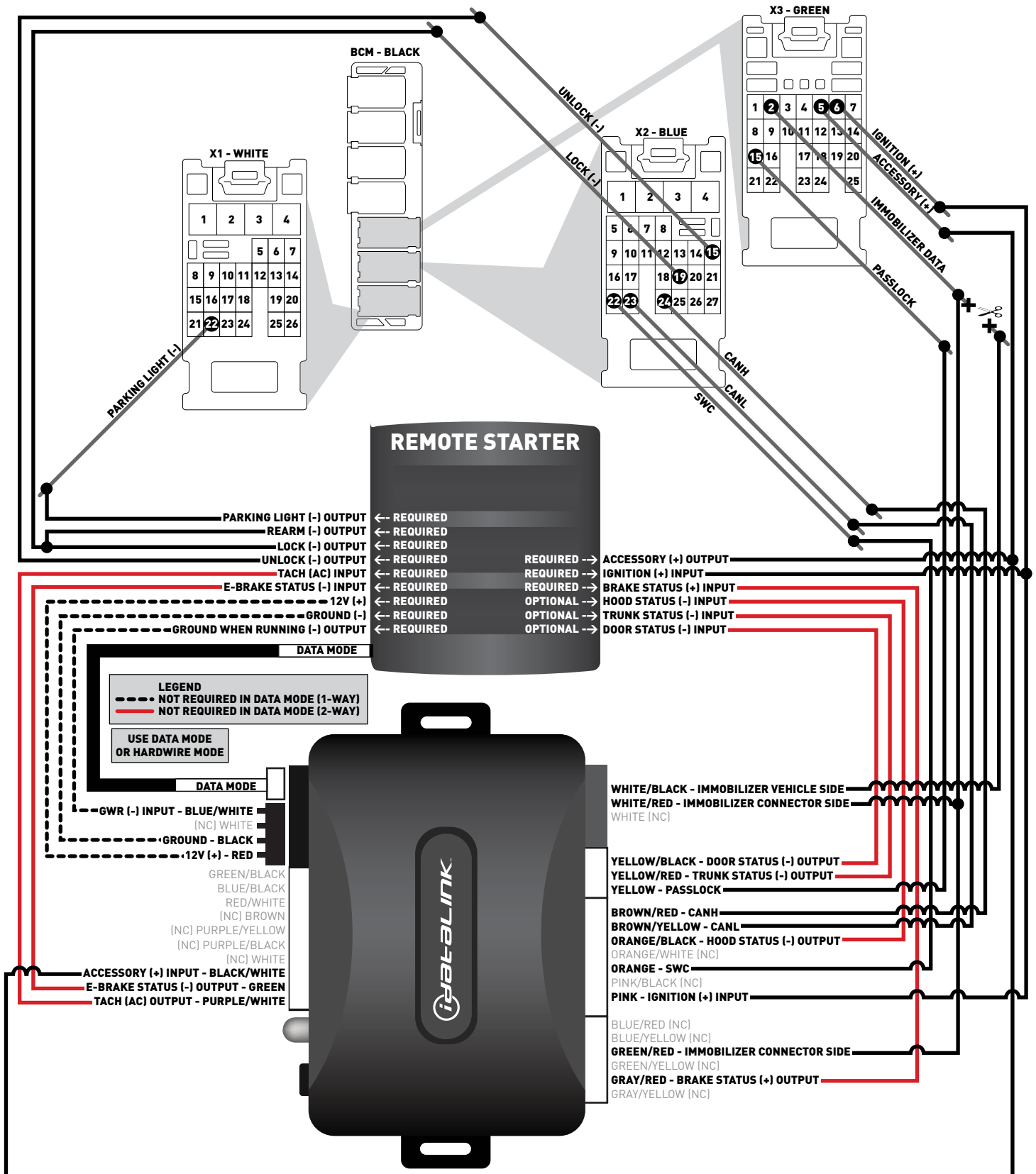
TYPE 7 - WIRING DIAGRAM - 1 OF 1



TYPE 8 - WIRE CROSS REFERENCE CHART - 1 OF 1

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
CHEVROLET	Colorado w/o OnStar w/o OEM Alarm STD key AT	17	CanH	X2	Blue	27 pin	24	Blue	[DATA]	BCM, left side of steering column	A
			CanL	X2	Blue	27 pin	23	White	[DATA]	BCM, left side of steering column	A
			Swc	X2	Blue	27 pin	22	Green	[DATA]	BCM, left side of steering column	A
			Ignition	X3	Green	25 pin	06	Purple/Black	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	LtGreen/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	Green/Gray	(-)	BCM, left side of steering column	A
			Lock	X2	Blue	27 pin	19	Brown/Yellow	(-)	BCM, left side of steering column	A
			Unlock	X2	Blue	27 pin	15	Brown/White	(-)	BCM, left side of steering column	A
GMC	Canyon w/o OnStar w/o OEM Alarm STD key AT	17	CanH	X2	Blue	27 pin	24	Blue	[DATA]	BCM, left side of steering column	A
			CanL	X2	Blue	27 pin	23	White	[DATA]	BCM, left side of steering column	A
			Swc	X2	Blue	27 pin	22	Green	[DATA]	BCM, left side of steering column	A
			Ignition	X3	Green	25 pin	06	Purple/Black	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	LtGreen/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	Green/Gray	(-)	BCM, left side of steering column	A
			Lock	X2	Blue	27 pin	19	Brown/Yellow	(-)	BCM, left side of steering column	A
			Unlock	X2	Blue	27 pin	15	Brown/White	(-)	BCM, left side of steering column	A

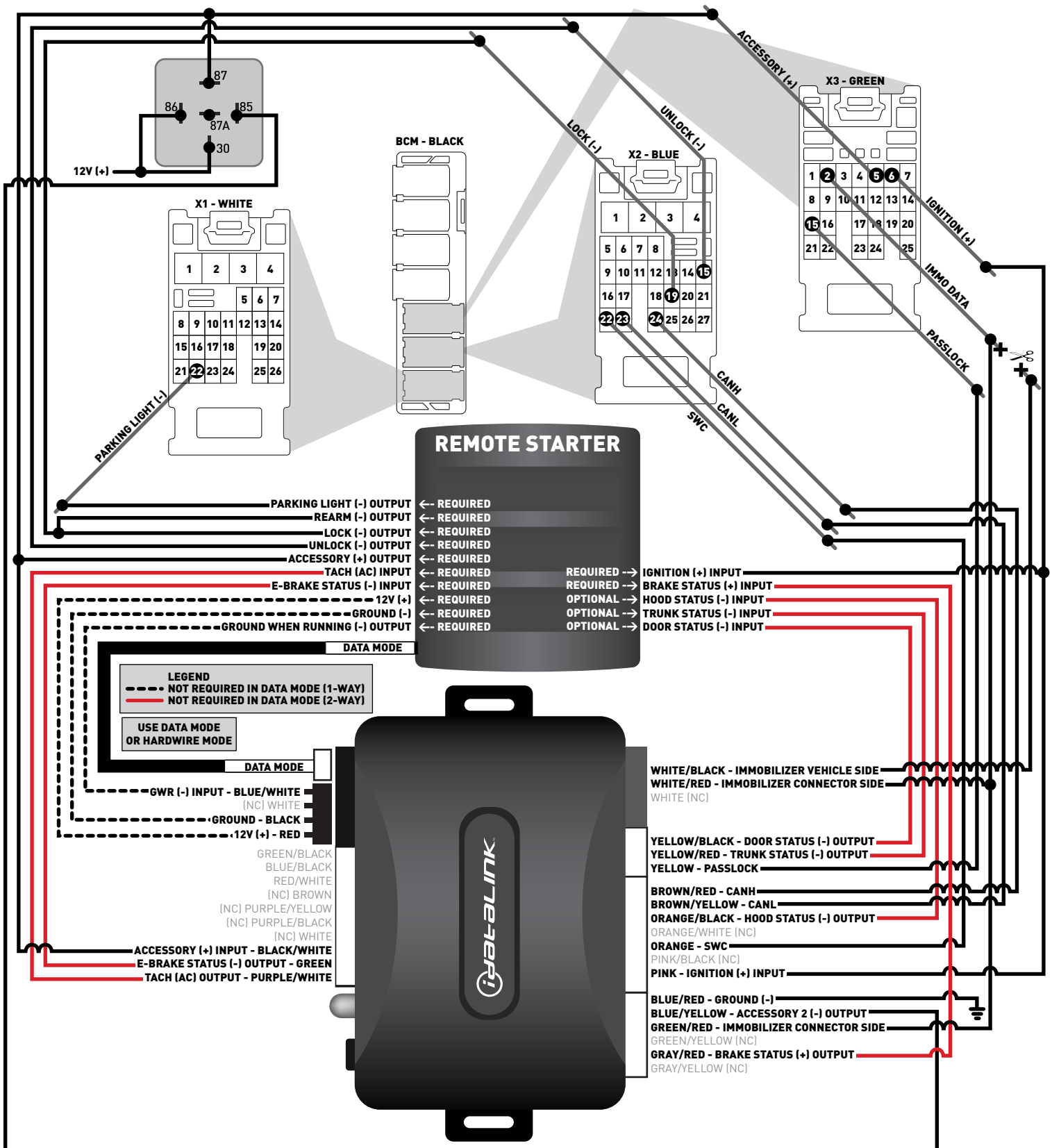
TYPE 8 - WIRING DIAGRAM - 1 OF 1



TYPE 9 - WIRE CROSS REFERENCE CHART - 1 OF 1

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
CHEVROLET	Colorado w/o OnStar w/OEM Alarm STD key AT	17	CanH	X2	Blue	27 pin	24	Blue	[DATA]	BCM, left side of steering column	A
			CanL	X2	Blue	27 pin	23	White	[DATA]	BCM, left side of steering column	A
			Swc	X2	Blue	27 pin	22	Green	[DATA]	BCM, left side of steering column	A
			Ignition	X3	Green	25 pin	06	Purple/Black	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	LtGreen/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	Green/Gray	(-)	BCM, left side of steering column	A
			Lock	X2	Blue	27 pin	19	Brown/Yellow	(-)	BCM, left side of steering column	A
			Unlock	X2	Blue	27 pin	15	Brown/White	(-)	BCM, left side of steering column	A
GMC	Canyon w/o OnStar w/ OEM Alarm STD key AT	17	CanH	X2	Blue	27 pin	24	Blue	[DATA]	BCM, left side of steering column	A
			CanL	X2	Blue	27 pin	23	White	[DATA]	BCM, left side of steering column	A
			Swc	X2	Blue	27 pin	22	Green	[DATA]	BCM, left side of steering column	A
			Ignition	X3	Green	25 pin	06	Purple/Black	(+)	BCM, left side of steering column	A
			Accessory	X3	Green	25 pin	05	Purple/Yellow	(+)	BCM, left side of steering column	A
			Immobilizer Data	X3	Green	25 pin	02	LtGreen/Purple	[DATA]	BCM, left side of steering column	A
			Passlock	X3	Green	25 pin	15	White/Purple	(MUX)	BCM, left side of steering column	A
			Parking Light	X1	White	26 pin	22	Green/Gray	(-)	BCM, left side of steering column	A
			Lock	X2	Blue	27 pin	19	Brown/Yellow	(-)	BCM, left side of steering column	A
			Unlock	X2	Blue	27 pin	15	Brown/White	(-)	BCM, left side of steering column	A

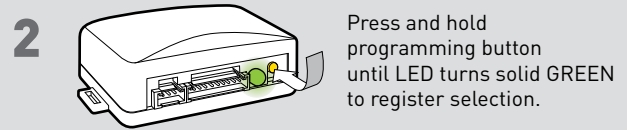
TYPE 9 - WIRING DIAGRAM - 1 OF 1



INSTALLATION MODE SELECTION

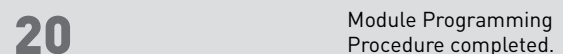
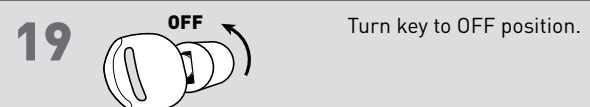
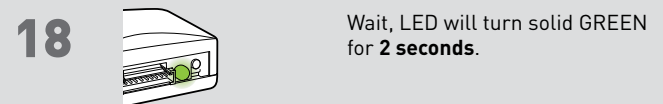
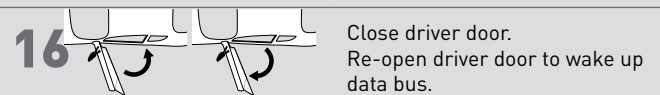
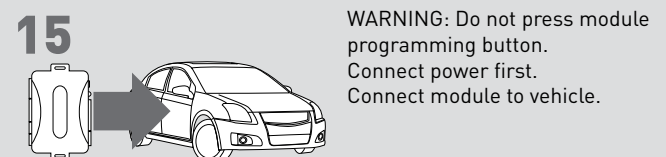
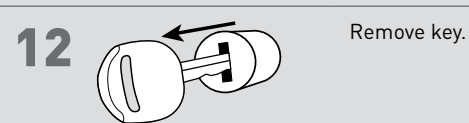
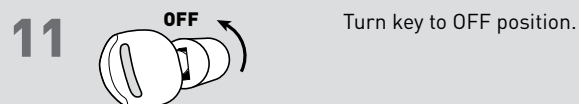
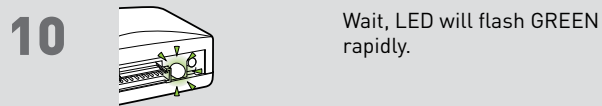
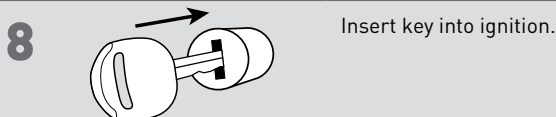
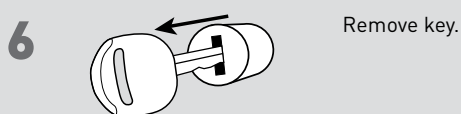
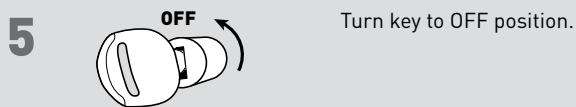
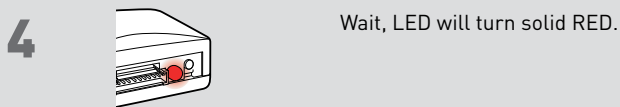
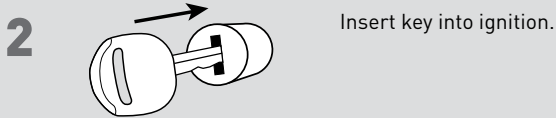
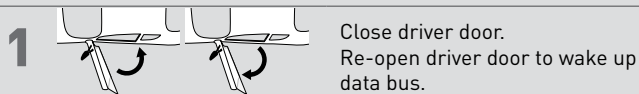


-  LED flashes (1X) once = DATA MODE
-  LED flashes (2X) twice = STANDARD HARDWARE MODE



! After registration, follow Factory Reset Procedure to change installation mode and restart this procedure.

MODULE PROGRAMMING PROCEDURE - WITH KLON



IDENTIFY VEHICLE YEAR

1 Locate the Vehicle Identification Number (VIN), identify the 10th character then match it to its corresponding year.



A	1980	L	1990	Y	2000	A	2010
B	1981	M	1991	1	2001	B	2011
C	1982	N	1992	2	2002	C	2012
D	1983	P	1993	3	2003	D	2013
E	1984	R	1994	4	2004	E	2014
F	1985	S	1995	5	2005	F	2015
G	1986	T	1996	6	2006	G	2016
H	1987	V	1997	7	2007	H	2017
J	1988	W	1998	8	2008	J	2018
K	1989	X	1999	9	2009	K	2019

MODULE DIAGNOSTICS

LED STATUS	DIAGNOSTICS		
	DURING PROGRAMMING	DURING REMOTE START	WITH IGNITION OFF
Flashing RED	Missing/wrong information from firmware or vehicle	Incorrectly programmed	Incorrectly programmed or connected
Solid RED	Waiting for more vehicle information	Incorrectly programmed	Not programmed waiting for more vehicle information
Flashing GREEN	Additional steps required to complete programming	Correctly programmed and operational	False ground when running status from remote starter
Solid GREEN then OFF	Correctly programmed	Reset in progress	Reset in progress
OFF	No activity or already programmed	Invalid ground when running status from remote starter	At rest and ready for a remote start sequence

FACTORY RESET PROCEDURE

- DISCONNECT** all connectors from module **EXCEPT** the black 4-PIN standard or optional data connector.
- DISCONNECT** black 4-PIN standard or optional data connector.
- PRESS AND HOLD** programming button while connecting either 4-PIN standard or optional data connector.
- When LED flashes red, **RELEASE** programming button.

- LED will turn solid red for 2 seconds.
RESET COMPLETED.
 - RECONNECT** all connectors.
 - Repeat programming procedure.
- !** Failure to follow procedure may result with a DTC or a CHECK ENGINE error message.