

Automotive Data Solutions Inc.

INSTALL GUIDE

ADS-AL(TB)-SUB-EN

SUB

AVAILABLE FOR: ADS-AL CA

Rev. Date: November 07, 2014

Doc. No.: ##17323##

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

PLEASE VISIT **WWW.IDATALINK.COM** FOR COMPLETE PRODUCT DETAILS

The brand names and logos found in this guide are property of their respective owners. Automotive Data Solutions Inc. © 2014

SAAB

SCION

SUBARU

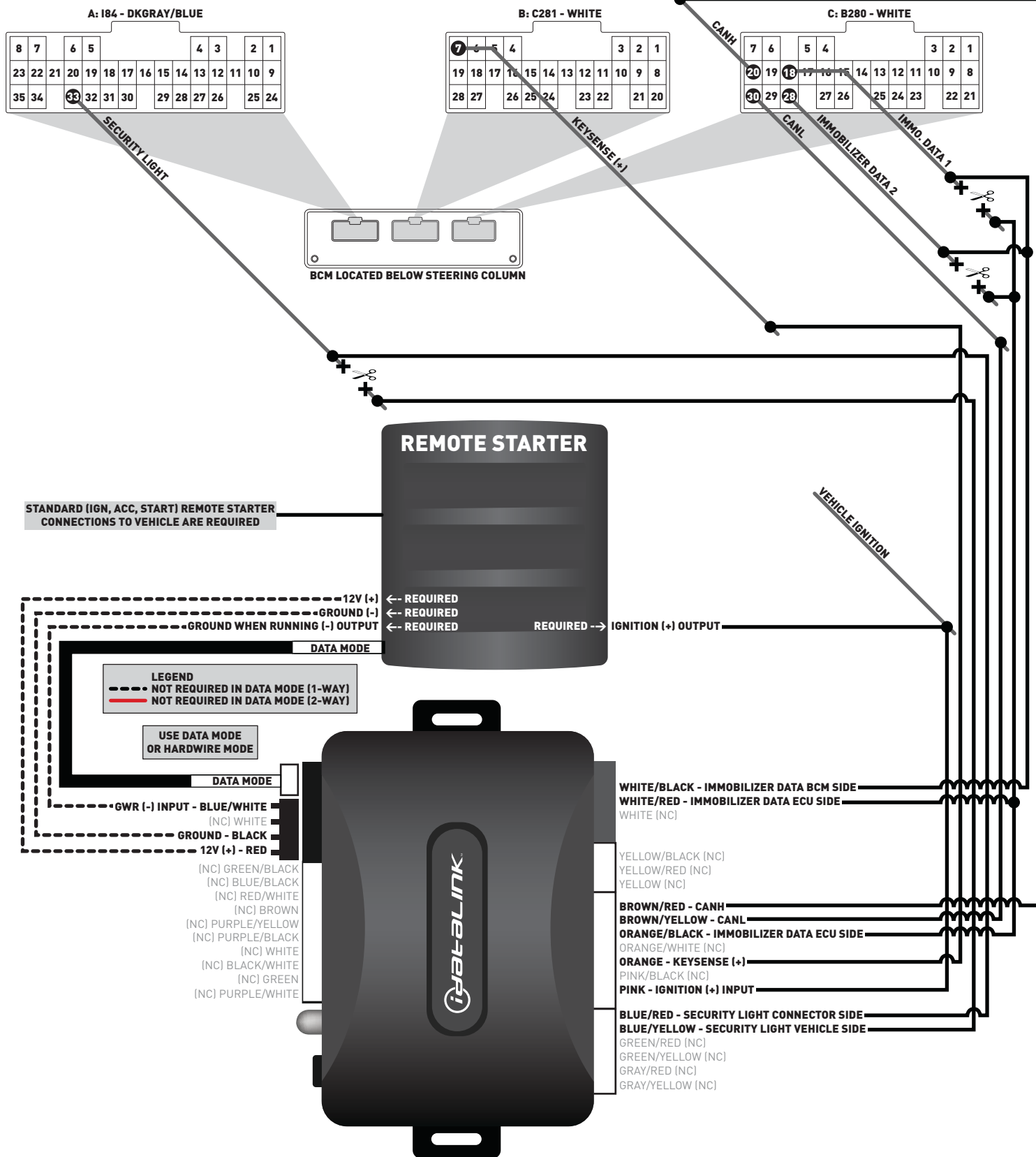
NOTICE: The manufacturer will accept no responsibility for any electrical damage resulting from improper installation of this product, be that either damage to the vehicle itself or to the installed device. This device must be installed by a certified technician. This guide has been written for properly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

INSTALL TYPE SELECTION

MAKE	MODEL	YEAR	INSTALL TYPE	FEATURES	
				DATA IMMOBILIZER BYPASS	
SAAB	9-2X STD key	05-06	4	•	
SCION	FR-S STD key	13-14	5	•	
SUBARU	BRZ STD key	13-14	5	•	
	Impreza STD key	05-07	4	•	
	Impreza STD key	08-11	2	•	
	Impreza STD key	12-14	3	•	
	Forester STD key	05-08	4	•	
	Forester STD key	09-13	2	•	
	Forester STD key	14-15	3	•	
	Legacy STD key	05-09	1	•	
	Legacy STD key	10-14	3	•	
	Legacy STD key	15	6	•	
	Outback STD key	05-09	1	•	
	Outback STD key	10-14	3	•	
	Outback STD key	15	6	•	
	Tribeca STD key	06-14	1	•	
	WRX STD key	15	3	•	
	WRX/STi STD key	12-14	2	•	
	WRX/STi STD key	15	3	•	
	XV Crosstrek STD key	13-14	3	•	

TYPE 1 - WIRE CROSS REFERENCE CHART

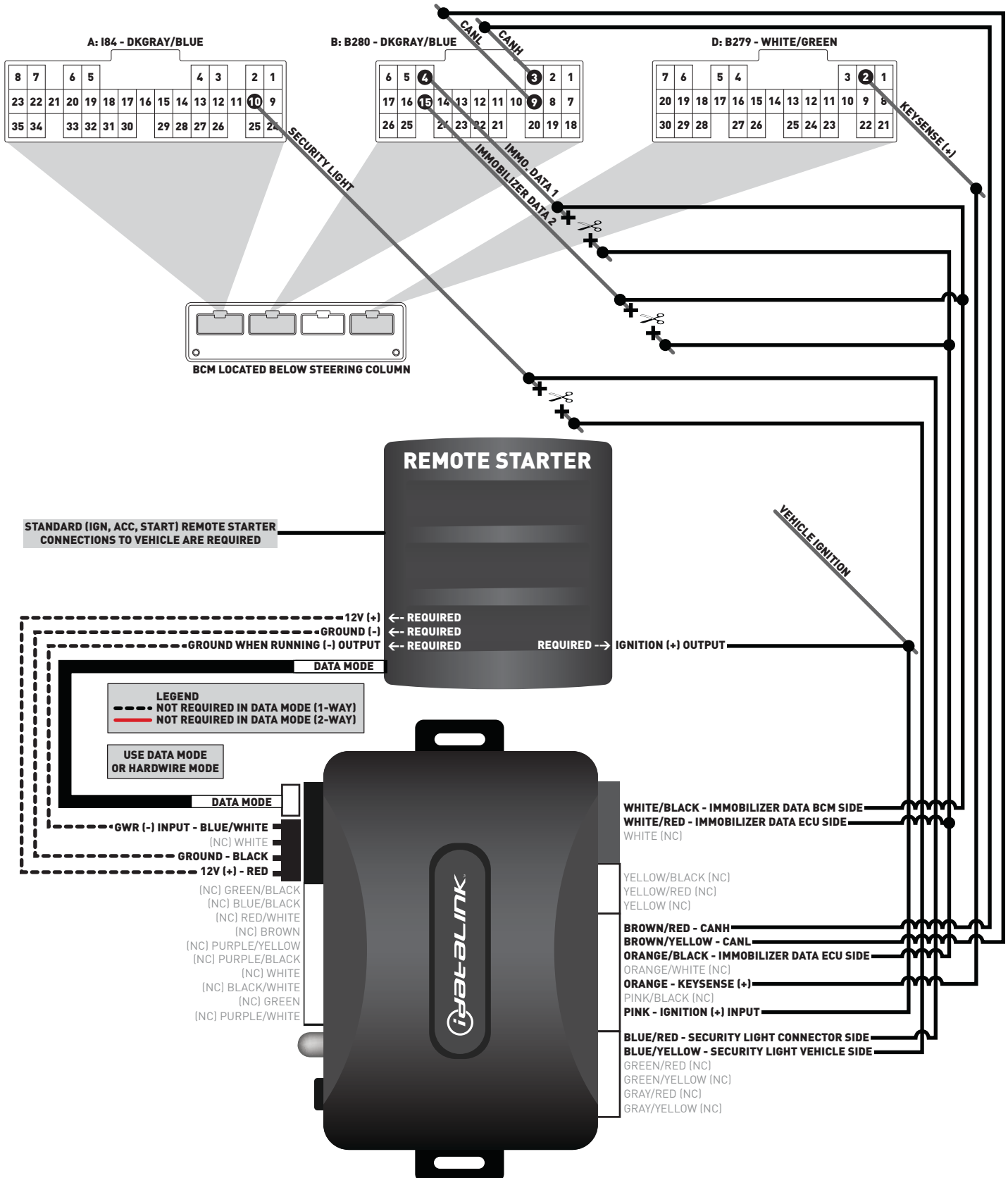
MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
SUBARU	Legacy STD key	05-09	Security Light	A : I84	DkGray/Blue	35 pin	33	Brown/Red	(+)	BCM below steering column	~
			CanL	B : B280	White	30 pin	30	LtBlue	(DATA)	BCM below steering column	~
			CanH	B : B280	White	30 pin	20	Red	(DATA)	BCM below steering column	~
			Immo Data 1	B : B280	White	30 pin	18	White/LtBlue	(DATA)	BCM below steering column	~
			Immo Data 2	B : B280	White	30 pin	28	Black/Pink	(DATA)	BCM below steering column	~
			Keysense	C : B281	White	28 pin	07	Black/White	(+)	BCM below steering column	~
	Outback STD key	05-09	Security Light	A : I84	DkGray/Blue	35 pin	33	Brown/Red	(+)	BCM below steering column	~
			CanL	B : B280	White	30 pin	30	LtBlue	(DATA)	BCM below steering column	~
			CanH	B : B280	White	30 pin	20	Red	(DATA)	BCM below steering column	~
			Immo Data 1	B : B280	White	30 pin	18	White/LtBlue	(DATA)	BCM below steering column	~
			Immo Data 2	B : B280	White	30 pin	28	Black/Pink	(DATA)	BCM below steering column	~
			Keysense	C : B281	White	28 pin	07	Black/White	(+)	BCM below steering column	~
	Tribeca STD key	06-14	Security Light	A : I84	DkGray/Blue	35 pin	33	Brown/Red	(+)	BCM below steering column	~
			CanL	B : B280	White	30 pin	30	LtBlue	(DATA)	BCM below steering column	~
			CanH	B : B280	White	30 pin	20	Red	(DATA)	BCM below steering column	~
			Immo Data 1	B : B280	White	30 pin	18	White/LtBlue	(DATA)	BCM below steering column	~
			Immo Data 2	B : B280	White	30 pin	28	Black/Pink	(DATA)	BCM below steering column	~
			Keysense	C : B281	White	28 pin	07	Red	(+)	BCM below steering column	~



TYPE 2 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
SUBARU	Forester STD key	09-13	Security Light	A : I84	DkGray/Blue	35 pin	10	Brown/Red	(+)	BCM below steering column	~
			CanL	B : B280	DkGray/Blue	26 pin	09	Blue	(DATA)	BCM below steering column	~
			CanH	B : B280	DkGray/Blue	26 pin	03	Red	(DATA)	BCM below steering column	~
			Immo Data 1	B : B280	DkGray/Blue	26 pin	04	White/Blue	(DATA)	BCM below steering column	~
			Immo Data 2	B : B280	DkGray/Blue	26 pin	15	Black/Red	(DATA)	BCM below steering column	~
			Keysense	D : B279	White/Green	30 pin	02	Black/White	(+)	BCM below steering column	~
	Impreza STD key	08-11	Security Light	A : I84	DkGray/Blue	35 pin	10	Brown/Red	(+)	BCM below steering column	~
			CanL	B : B280	DkGray/Blue	26 pin	09	Blue	(DATA)	BCM below steering column	~
			CanH	B : B280	DkGray/Blue	26 pin	03	Red	(DATA)	BCM below steering column	~
			Immo Data 1	B : B280	DkGray/Blue	26 pin	04	White/Blue	(DATA)	BCM below steering column	~
			Immo Data 2	B : B280	DkGray/Blue	26 pin	15	Black/Red	(DATA)	BCM below steering column	~
			Keysense	D : B279	White/Green	30 pin	02	Black/White	(+)	BCM below steering column	~
	WRX/STi STD key	12-14	Security Light	A : I84	DkGray/Blue	35 pin	10	Brown/Red	(+)	BCM below steering column	~
			CanL	B : B280	DkGray/Blue	26 pin	09	Blue	(DATA)	BCM below steering column	~
			CanH	B : B280	DkGray/Blue	26 pin	03	Red	(DATA)	BCM below steering column	~
			Immo Data 1	B : B280	DkGray/Blue	26 pin	04	White/Blue	(DATA)	BCM below steering column	~
			Immo Data 2	B : B280	DkGray/Blue	26 pin	15	Black/Red	(DATA)	BCM below steering column	~
			Keysense	D : B279	White/Green	30 pin	02	Black/White	(+)	BCM below steering column	~

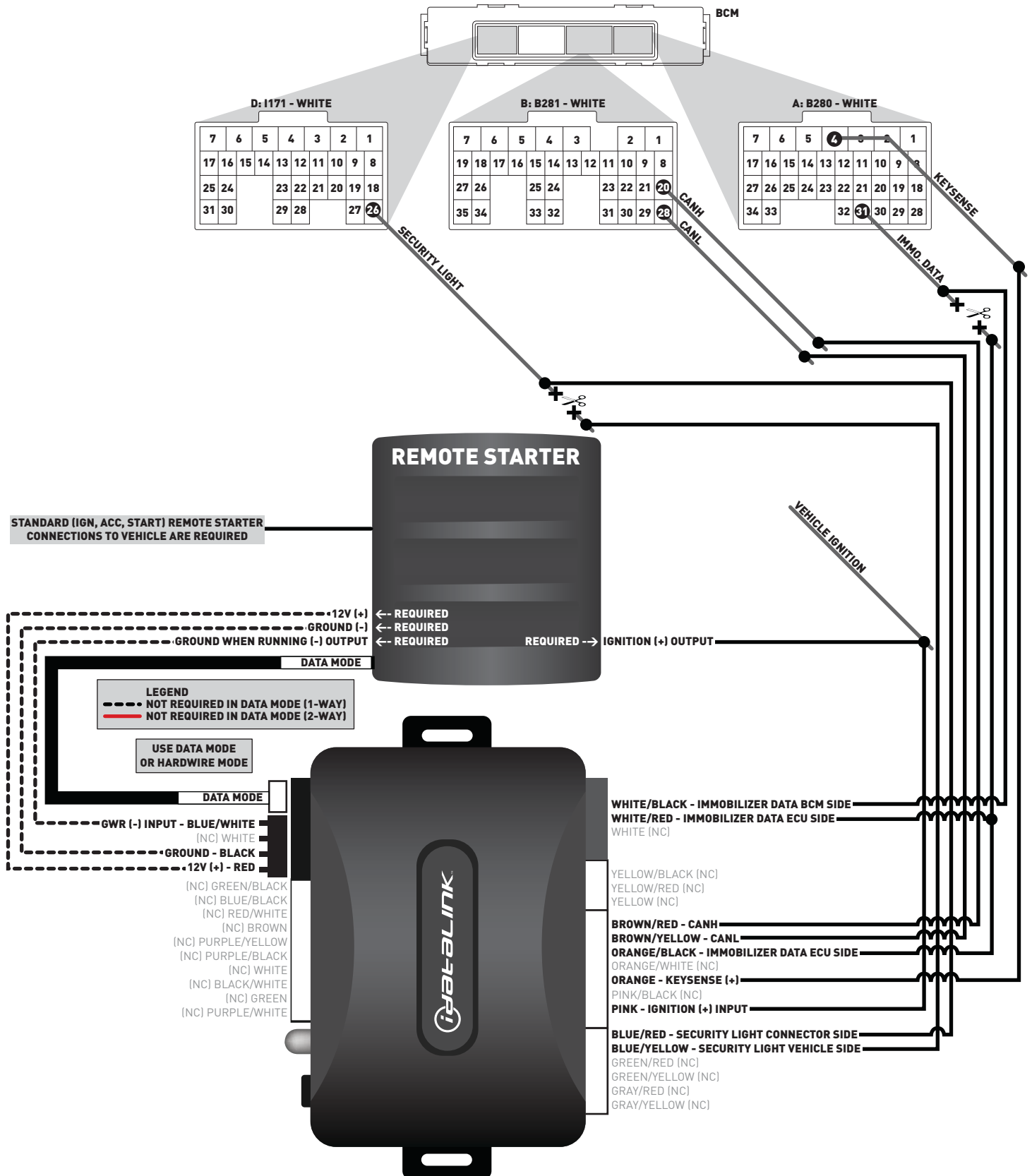
TYPE 2 - WIRING DIAGRAM



TYPE 3 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
SUBARU	Forester STD key	14	Security Light	D : I171	White	31 pin	26	Brown/Red	(+)	BCM behind fusebox	~
			CanL	B : B281	White	35 pin	28	Blue	(DATA)	BCM behind fusebox	~
			CanH	B : B281	White	35 pin	20	Red	(DATA)	BCM behind fusebox	~
			Immo Data	A : B280	White	34 pin	31	Red/Green	(DATA)	BCM behind fusebox	~
			Keysense	A : B280	White	34 pin	04	Black/White	(+)	BCM behind fusebox	~
	Forester STD key	15	Security Light	D : I171	White	31 pin	26	Brown/Red	(+)	BCM behind fusebox	~
			CanL	B : B281	White	35 pin	28	Blue	(DATA)	BCM behind fusebox	~
			CanH	B : B281	White	35 pin	20	Red	(DATA)	BCM behind fusebox	~
			Immo Data	A : B280	White	34 pin	31	Red/Yellow	(DATA)	BCM behind fusebox	~
			Keysense	A : B280	White	34 pin	04	Black/White	(+)	BCM behind fusebox	~
	Impreza STD key	12-14	Security Light	D : I171	White	31 pin	26	Brown/Red	(+)	BCM behind fusebox	~
			CanL	B : B281	White	35 pin	28	Blue	(DATA)	BCM behind fusebox	~
			CanH	B : B281	White	35 pin	20	Red	(DATA)	BCM behind fusebox	~
			Immo Data	A : B280	White	34 pin	31	White/LtBlue	(DATA)	BCM behind fusebox	~
			Keysense	A : B280	White	34 pin	04	Black/White	(+)	BCM behind fusebox	~
	Legacy STD key	10-14	Security Light	D : I171	White	31 pin	26	Brown/Red	(+)	BCM right side of steering column	~
			CanL	B : B281	White	35 pin	28	Blue	(DATA)	BCM right side of steering column	~
			CanH	B : B281	White	35 pin	20	Red	(DATA)	BCM right side of steering column	~
			Immo Data	A : B280	White	34 pin	31	White/LtBlue	(DATA)	BCM right side of steering column	~
			Keysense	A : B280	White	34 pin	04	Black/White	(+)	BCM right side of steering column	~
	Outback STD key	10-14	Security Light	D : I171	White	31 pin	26	Brown/Red	(+)	BCM right side of steering column	~
			CanL	B : B281	White	35 pin	28	Blue	(DATA)	BCM right side of steering column	~
			CanH	B : B281	White	35 pin	20	Red	(DATA)	BCM right side of steering column	~
			Immo Data	A : B280	White	34 pin	31	White/LtBlue	(DATA)	BCM right side of steering column	~
			Keysense	A : B280	White	34 pin	04	Black/White	(+)	BCM right side of steering column	~
	WRX STD key	15	Security Light	D : I171	White	31 pin	26	Brown/Red	(+)	BCM behind fusebox	~
			CanL	B : B281	White	35 pin	28	Blue	(DATA)	BCM behind fusebox	~
			CanH	B : B281	White	35 pin	20	Red	(DATA)	BCM behind fusebox	~
			Immo Data	A : B280	White	34 pin	31	White/LtBlue	(DATA)	BCM behind fusebox	~
			Keysense	A : B280	White	34 pin	04	Black/White	(+)	BCM behind fusebox	~
	WRX/STi STD key	15	Security Light	D : I171	White	31 pin	26	Brown/Red	(+)	BCM behind fusebox	~
			CanL	B : B281	White	35 pin	28	Blue	(DATA)	BCM behind fusebox	~
			CanH	B : B281	White	35 pin	20	Red	(DATA)	BCM behind fusebox	~
			Immo Data	A : B280	White	34 pin	31	White/LtBlue	(DATA)	BCM behind fusebox	~
			Keysense	A : B280	White	34 pin	04	Black/White	(+)	BCM behind fusebox	~
	XV Crosstrek STD key	13-14	Security Light	D : I171	White	31 pin	26	Brown/Red	(+)	BCM behind fusebox	~
			CanL	B : B281	White	35 pin	28	Blue	(DATA)	BCM behind fusebox	~
			CanH	B : B281	White	35 pin	20	Red	(DATA)	BCM behind fusebox	~
			Immo Data	A : B280	White	34 pin	31	White/LtBlue	(DATA)	BCM behind fusebox	~
			Keysense	A : B280	White	34 pin	04	Black/White	(+)	BCM behind fusebox	~

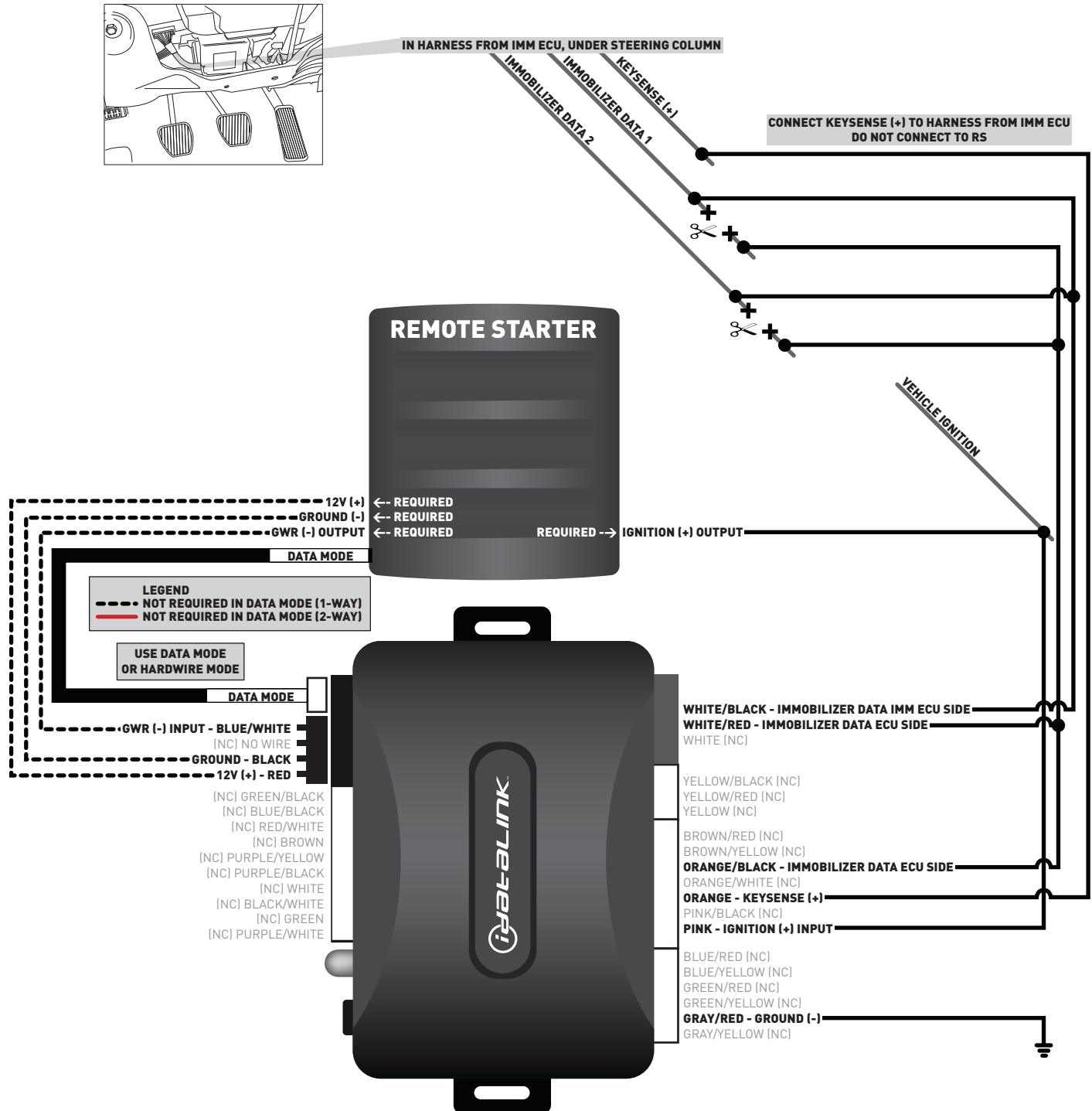
TYPE 3 - WIRING DIAGRAM



TYPE 4 - WIRE CROSS REFERENCE CHART

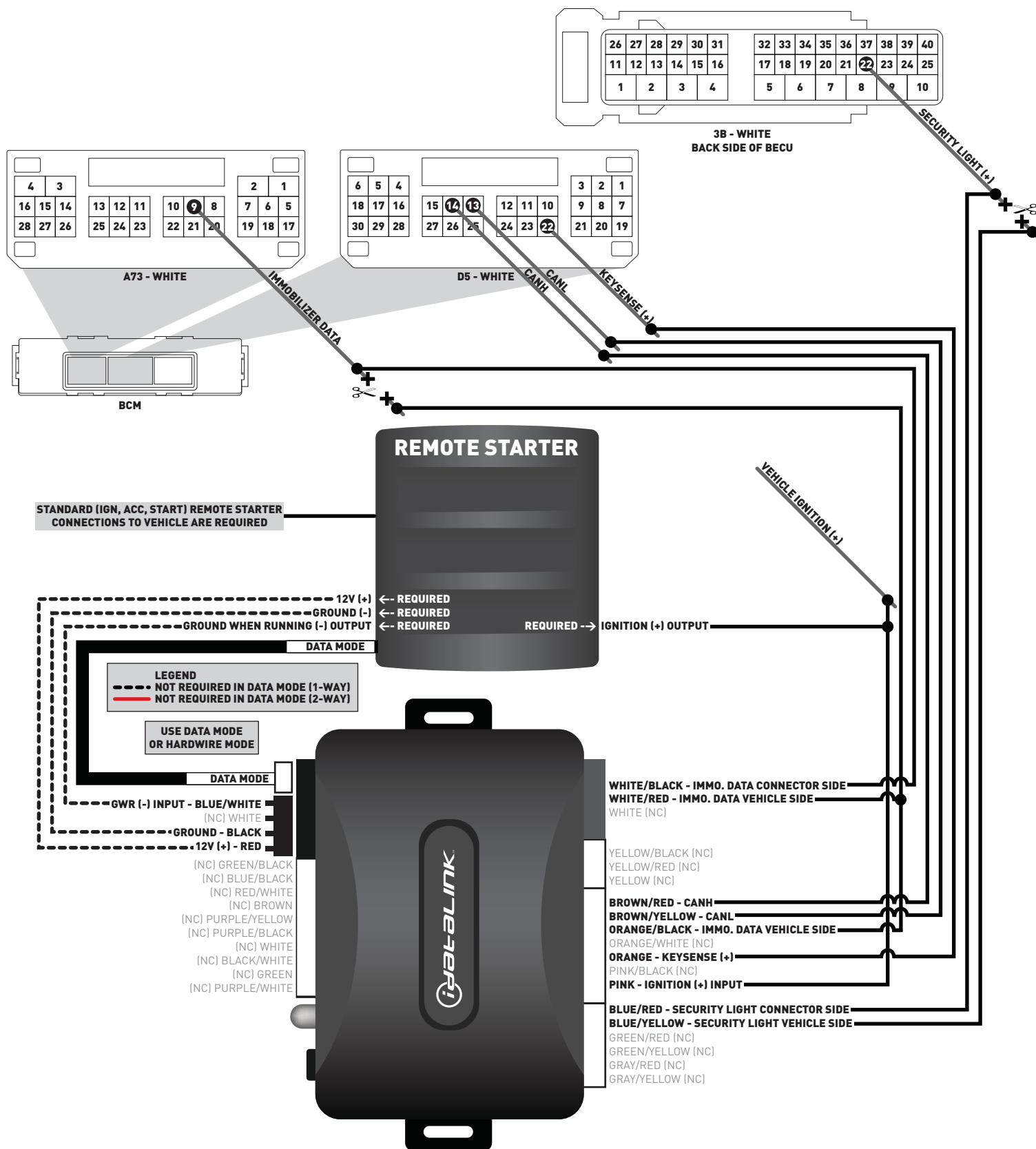
MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
SAAB	9-2X STD key	05-06	Immo Data 1	~	~	~	~	Red/Yellow	[DATA]	In harness from IMM ECU, under steering column	~
			Immo Data 2	~	~	~	~	Yellow/Black	[DATA]	In harness from IMM ECU, under steering column	~
			Keysense	~	~	~	~	White/Red	[+]	In harness from IMM ECU, under steering column	~
SUBARU	Impreza STD key	05-07	Immo Data 1	~	~	~	~	Red/Yellow	[DATA]	In harness from IMM ECU, under steering column	~
			Immo Data 2	~	~	~	~	Yellow/Black	[DATA]	In harness from IMM ECU, under steering column	~
			Keysense	~	~	~	~	White/Red	[+]	In harness from IMM ECU, under steering column	~
	Forester STD key	05-08	Immo Data 1	~	~	~	~	Red/White	[DATA]	In harness from IMM ECU, under steering column	~
			Immo Data 2	~	~	~	~	Yellow/Blue	[DATA]	In harness from IMM ECU, under steering column	~
			Keysense	~	~	~	~	White/Red	[+]	In harness from IMM ECU, under steering column	~

TYPE 4 - WIRING DIAGRAM



TYPE 5 - WIRE CROSS REFERENCE CHART

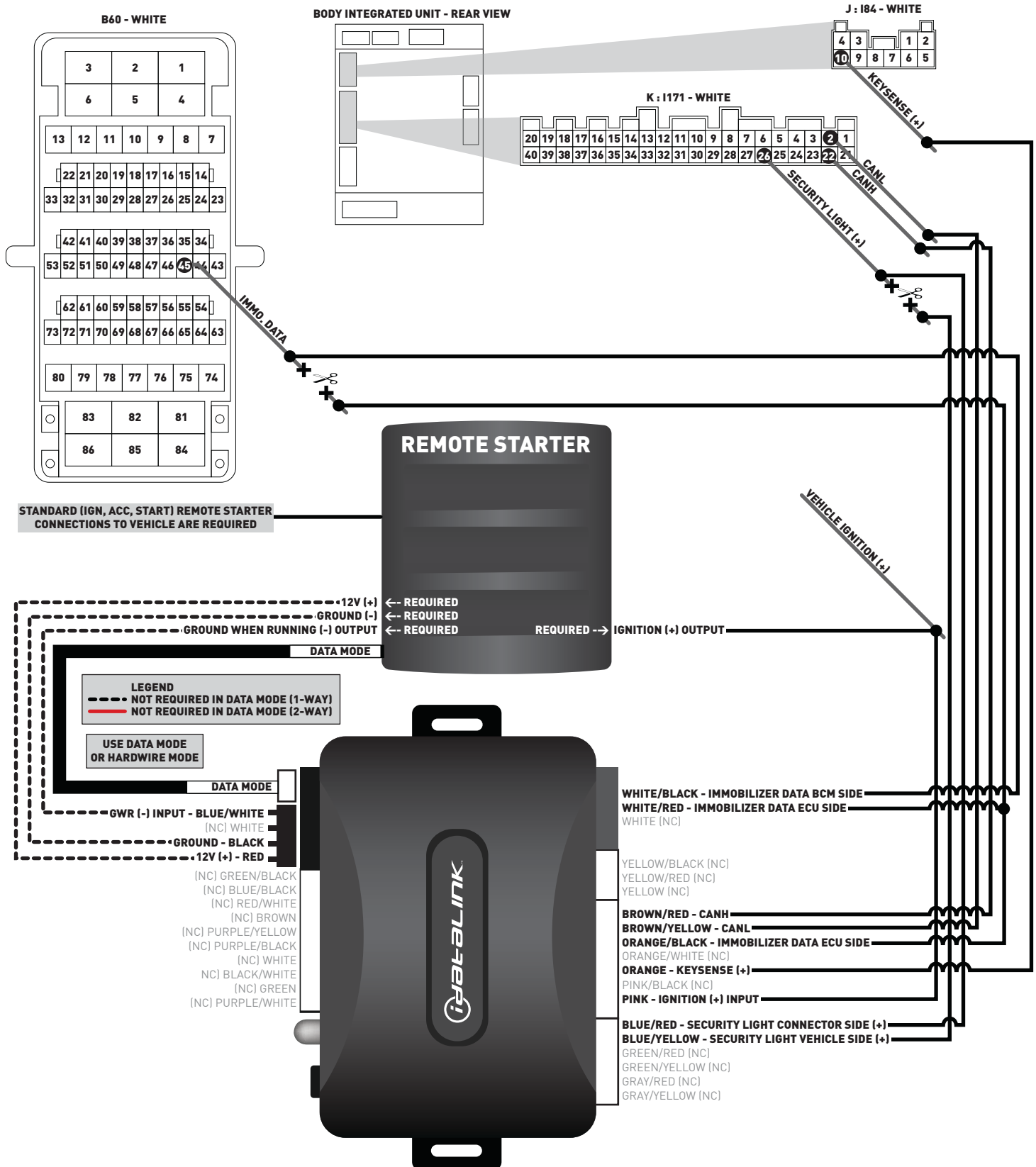
MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
SCION	FR-S STD key	13-14	Security Light	3B	White	40 pin	22	Purple	(+)	Back side of BECU	~
			CanL	D5	White	30 pin	13	LtGreen	(DATA)	BCM	~
			CanH	D5	White	30 pin	14	Pink	(DATA)	BCM	~
			Immo Data	A73	White	28 pin	09	Yellow	(DATA)	BCM	~
			Keysense	D5	White	30 pin	22	Brown	(+)	BCM	~
SUBARU	BRZ STD key	13-14	Security Light	3B	White	40 pin	22	Purple	(+)	Back side of BECU	~
			CanL	D5	White	30 pin	13	LtGreen	(DATA)	BCM	~
			CanH	D5	White	30 pin	14	Pink	(DATA)	BCM	~
			Immo Data	A73	White	28 pin	09	Yellow	(DATA)	BCM	~
			Keysense	D5	White	30 pin	22	Brown	(+)	BCM	~



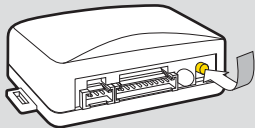
TYPE 6 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
SUBARU	Legacy STD key	15	Security Light	K: I171	White	40 pin	26	Brown/Yellow	(+)	Body Integrated Unit, left side, under dashboard	~
			CanL	K: I171	White	40 pin	02	Blue	(DATA)	Body Integrated Unit, left side, under dashboard	~
			CanH	K: I171	White	40 pin	22	Red	(DATA)	Body Integrated Unit, left side, under dashboard	~
			Immo Data	B60	White	84 pin	45	White/LtBlue	(DATA)	Behind Body Integrated Unit	~
			Keysense	J: I84	White	10 pin	10	Black/White	(+)	Body Integrated Unit, left side, under dashboard	~
	Outback STD key	15	Security Light	K: I171	White	40 pin	26	Brown/Yellow	(+)	Body Integrated Unit, left side, under dashboard	~
			CanL	K: I171	White	40 pin	02	Blue	(DATA)	Body Integrated Unit, left side, under dashboard	~
			CanH	K: I171	White	40 pin	22	Red	(DATA)	Body Integrated Unit, left side, under dashboard	~
			Immo Data	B60	White	84 pin	45	White/LtBlue	(DATA)	Behind Body Integrated Unit	~
			Keysense	J: I84	White	10 pin	10	Black/White	(+)	Body Integrated Unit, left side, under dashboard	~

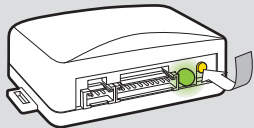
TYPE 6 - WIRING DIAGRAM



INSTALLATION MODE SELECTION

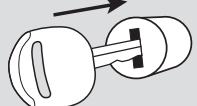
- 1**  Press and release programming button to select installation mode.

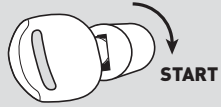
 LED flashes (1X) once = DATA MODE
 LED flashes (2X) twice = STANDARD HARDWARE MODE

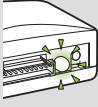
- 2**  Press and hold programming button until LED turns solid GREEN to register selection.

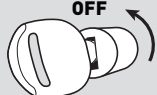
! After registration, follow Factory Reset Procedure to change installation mode and restart this procedure.

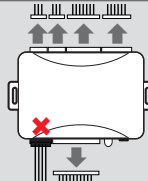
MODULE PROGRAMMING PROCEDURE - WITH KLON

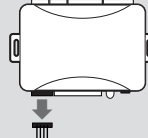
- 1**  Insert key into ignition.

- 2**  Turn key to START position.
(Engine running)

- 3**  Wait, LED will turn:
GREEN (1X) once,
RED (1X) once,
GREEN (2X) twice,
then will flash GREEN rapidly.

- 4**  Turn key to OFF position.

- 5**  Disconnect all connectors from module except the black 4-PIN standard or optional data connector.

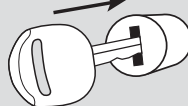
- 6**  Disconnect the black 4-PIN standard or optional data connector.

- 7**  Remove module from vehicle.

- 8**  Connect module to computer.

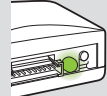
- 9**  Proceed with extended programming.

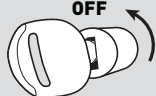
- 10**  Connect module to vehicle.

- 11**  Insert key into ignition.

- 12**  Turn key to ON position.
Wait, LED will turn solid RED

- 13**  Turn key to START position.
(Engine running)

- 14**  Wait, LED will turn:
GREEN (3X) three times,
RED (1X) once,
GREEN (4X) four times,
RED (1X) once,
then will turn solid GREEN for **2 seconds**.

- 15**  Turn key to OFF position.

- 16** Module Programming Procedure completed.

IDENTIFY VEHICLE YEAR

1

Locate the Vehicle Identification Number (VIN) and identify the 10th character.

● 4 3 A 5 Y 1 N 5 T **A** L 8 D 5 R O X ●

2

Match the VIN's 10th character to its corresponding year.

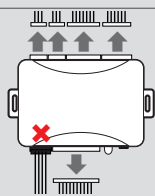
L → 1990	S → 1995	Y → 2000	5 → 2005	A → 2010
M → 1991	T → 1996	1 → 2001	6 → 2006	B → 2011
N → 1992	V → 1997	2 → 2002	7 → 2007	C → 2012
P → 1993	W → 1998	3 → 2003	8 → 2008	D → 2013
R → 1994	X → 1999	4 → 2004	9 → 2009	E → 2014

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

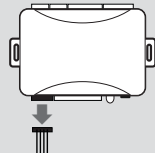
FACTORY RESET PROCEDURE

1



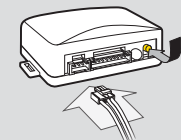
DISCONNECT all connectors from module **EXCEPT** the black 4-PIN standard or optional data connector.

2



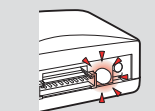
DISCONNECT black 4-PIN standard or optional data connector.

3



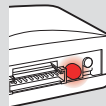
PRESS AND HOLD programming button while connecting either 4-PIN standard or optional data connector.

4



When LED flashes red, **RELEASE** programming button.

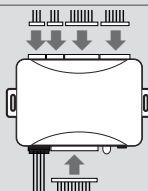
5



LED will turn solid red for 2 seconds.

RESET COMPLETED.

6



RECONNECT all connectors.

7

Repeat programming procedure.



Failure to follow procedure may result with a DTC or a CHECK ENGINE error message.