

Automotive Data Solutions Inc.

INSTALL GUIDE ADS-AL(TB)-SUB-EN

SUB

AVAILABLE FOR: ADS-AL CA

Rev. Date: October 01, 2012

Doc. No.: ##9780##

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VERSION FRANÇAISE DISPONIBLE EN LIGNE AU WWW.IDATALINK.COM

PLEASE VISIT WWW.IDATALINK.COM/SUPPORT FOR COMPLETE PRODUCT DETAILS

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SUBARU SAAB

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.

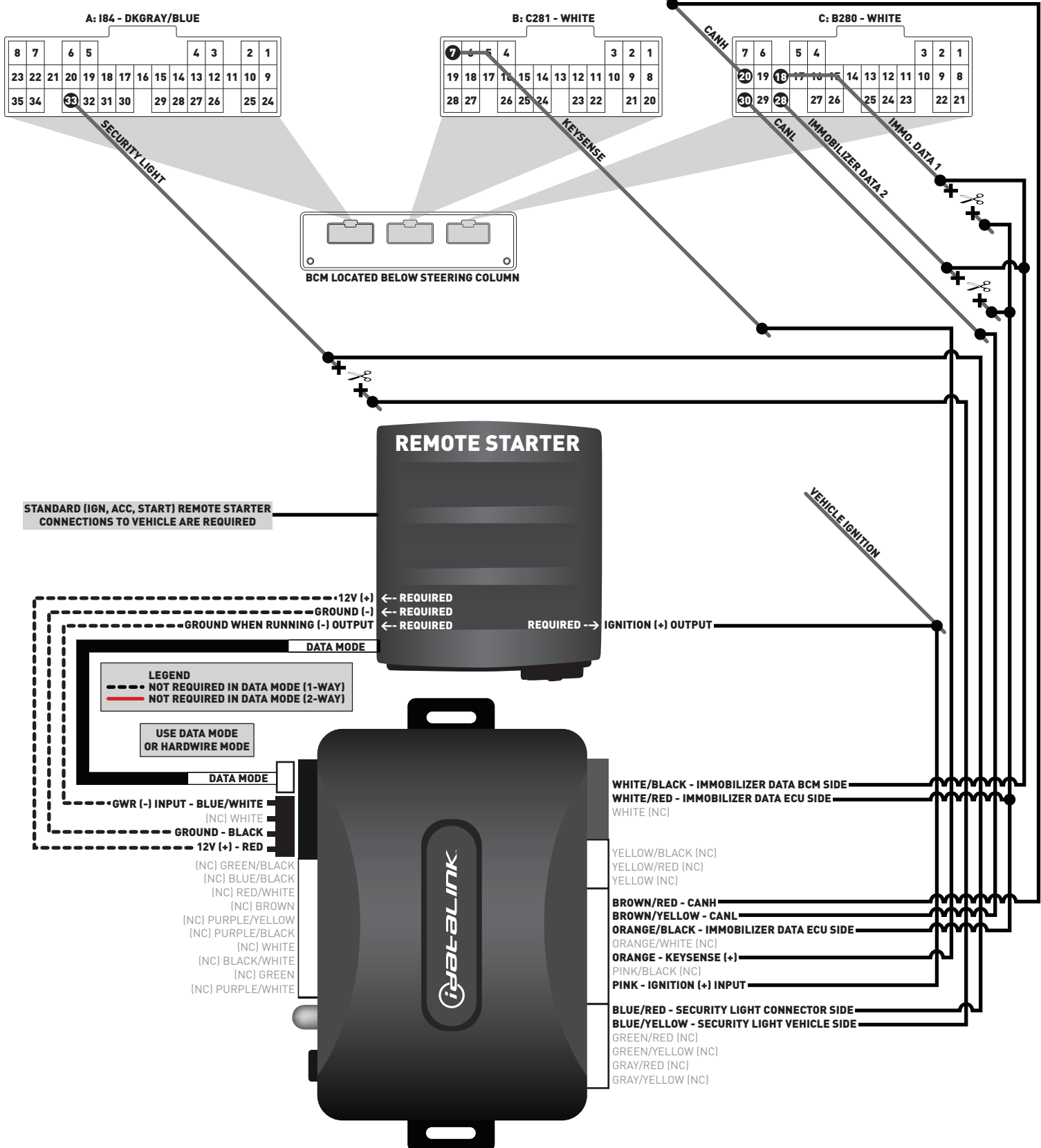
INSTALL TYPE SELECTION

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

TYPE 1 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
SUBARU	Legacy	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	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	06-12	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	~

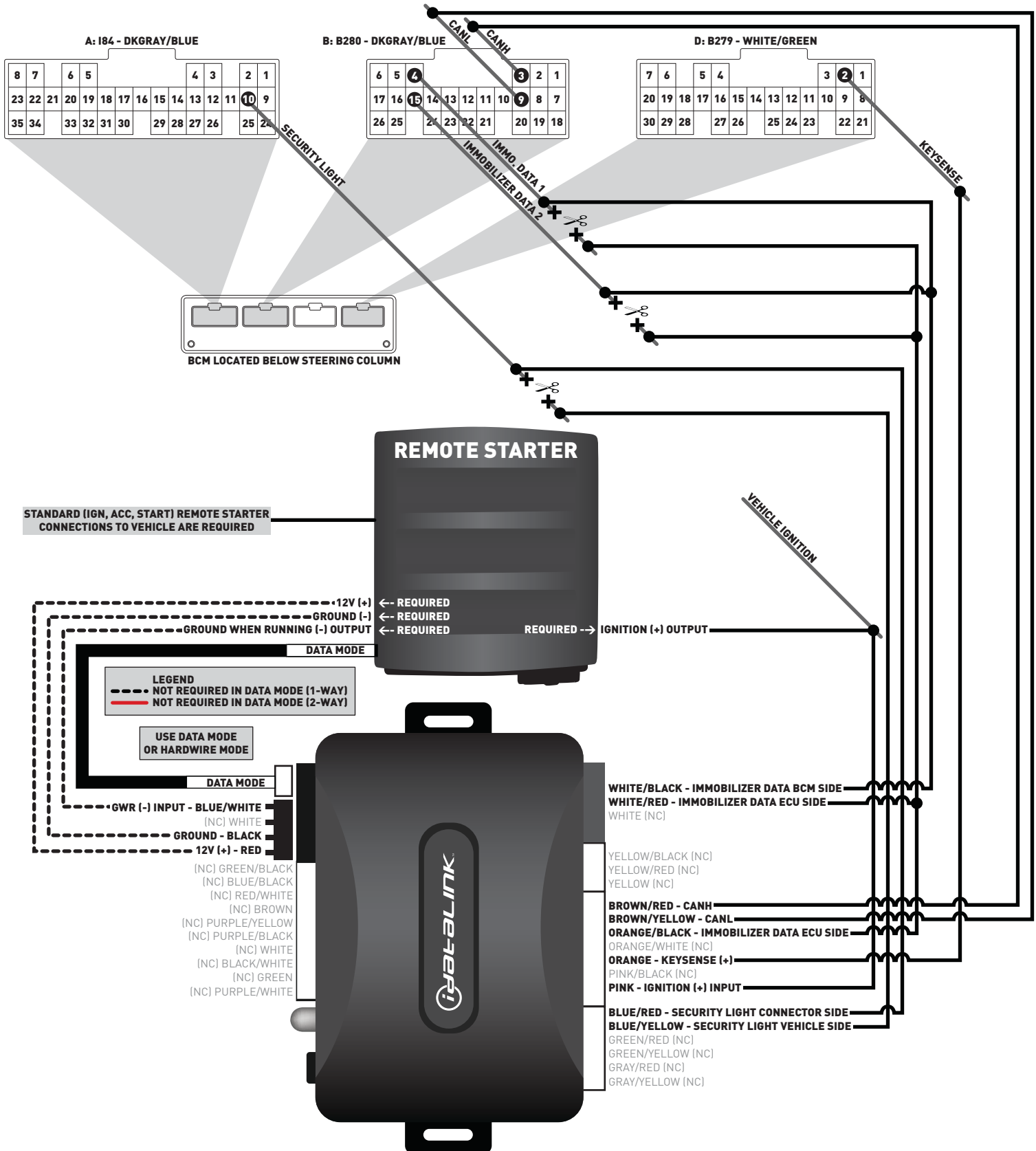
TYPE 1 - WIRING DIAGRAM



TYPE 2 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
SUBARU	Forester	09-12	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	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	12	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	~

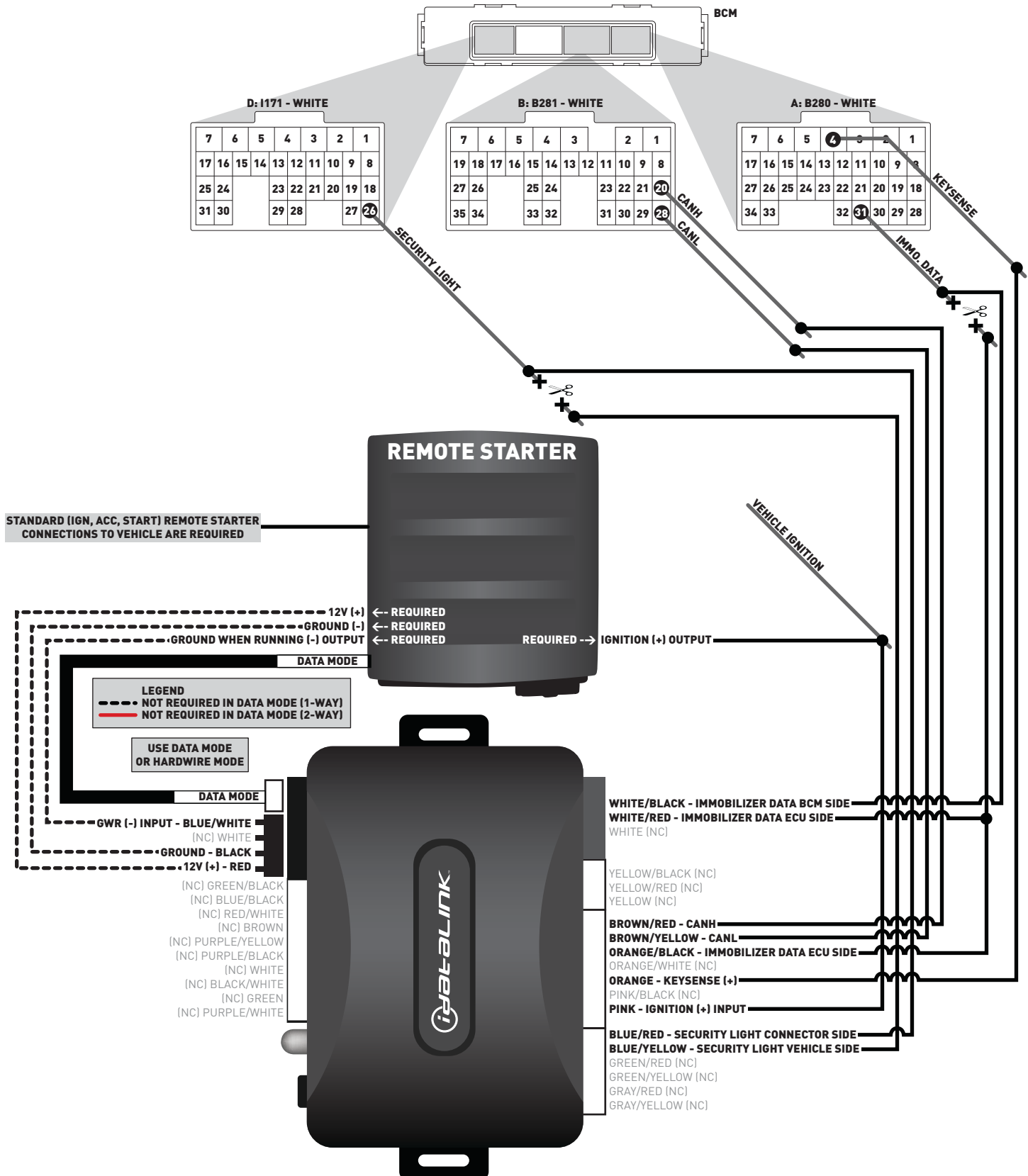
TYPE 2 - WIRING DIAGRAM



TYPE 3 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
SUBARU	Impreza	12	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	10-12	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	10-12	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	~
	XV Crosstrek	13	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	~

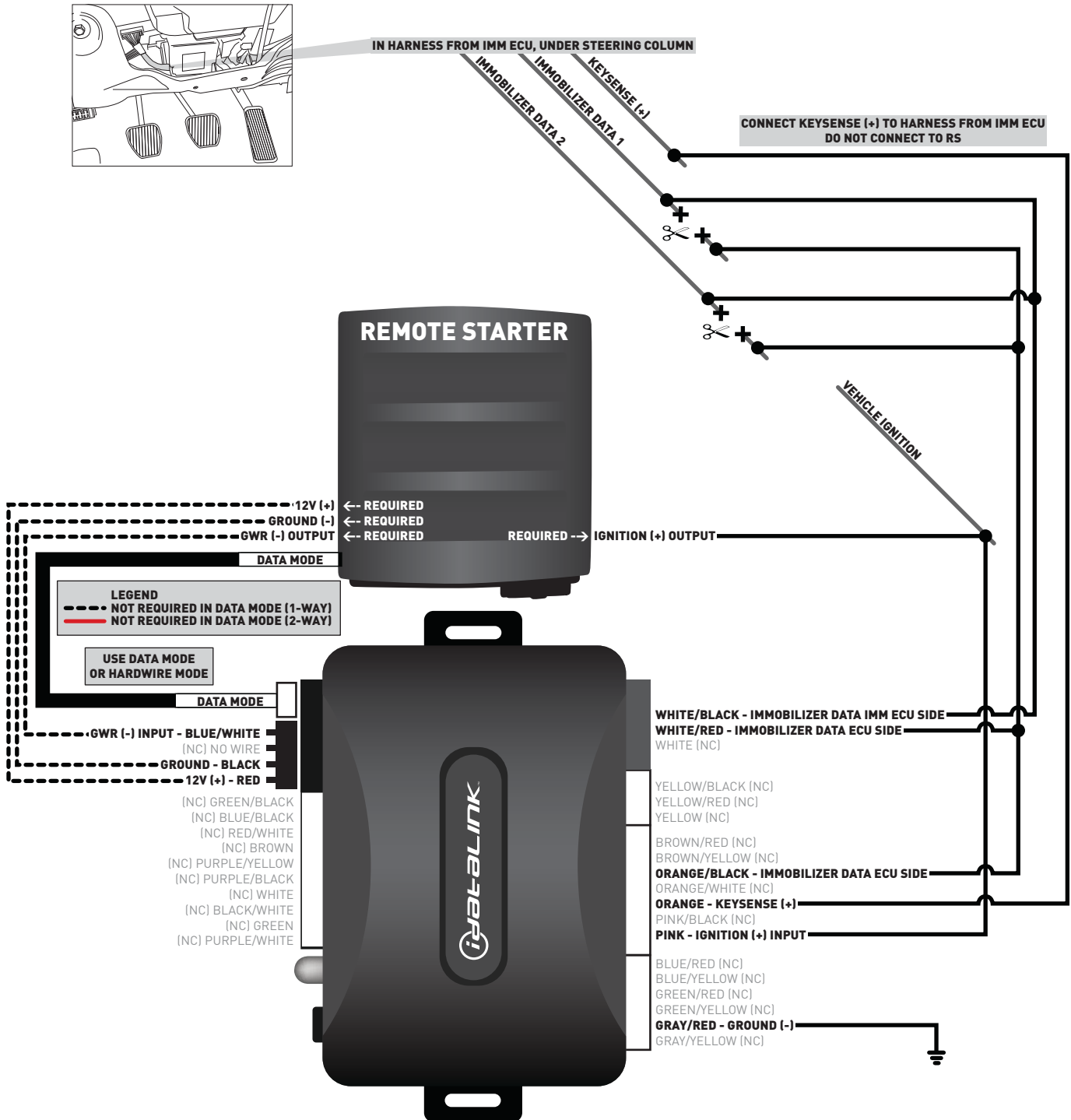
TYPE 3 - WIRING DIAGRAM



TYPE 4 - WIRE CROSS REFERENCE CHART

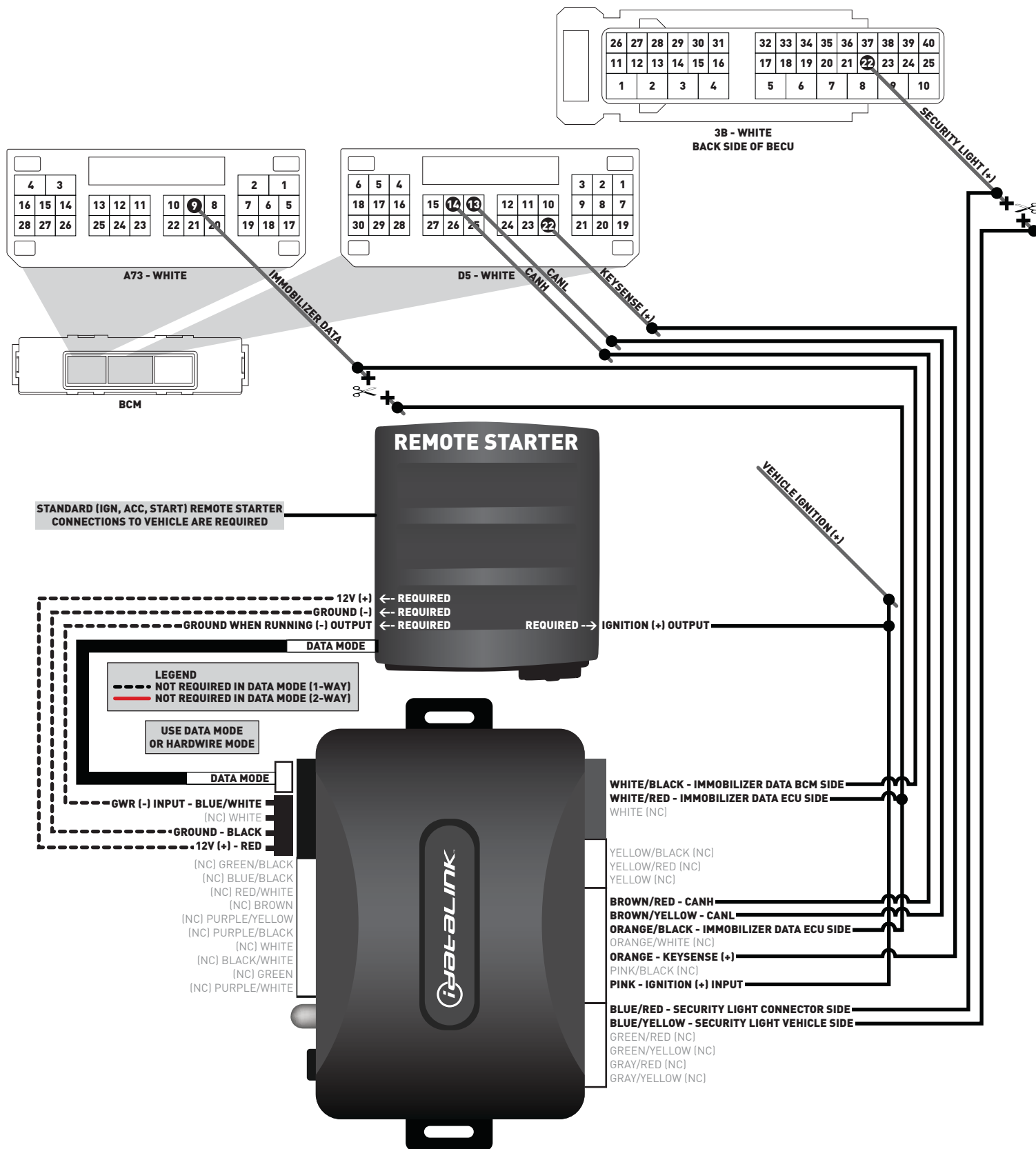
MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
SAAB	9-2X	05-06	Immo Data 1	~	~	~	~	Red/Yellow	[DATA]	In harness from IMM ECU, under steering column	~
			Immo Data 2	~	~	~	~	Yellow/Black	[DATA]	In harness from IMM ECU,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

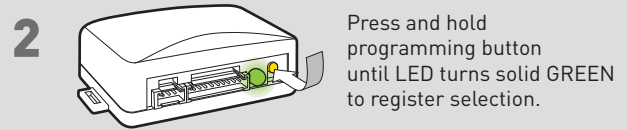
MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
SCION	FR-S	13	Security Light	3B	White	40 pin	22	Purple	(+)	Back side of BECU	~
			CanL	D5	White	30 pin	13	LtGreen	(DATA)	BCM	~
			CanH	D5	White	30 pin	14	Pink	(DATA)	BCM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



INSTALLATION MODE SELECTION

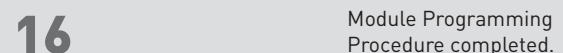
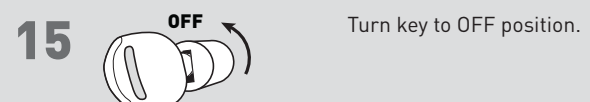
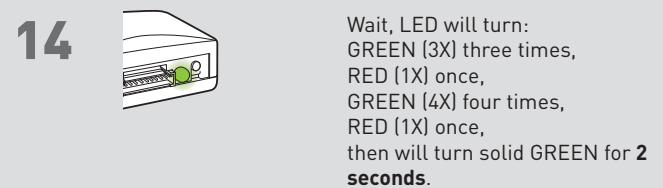
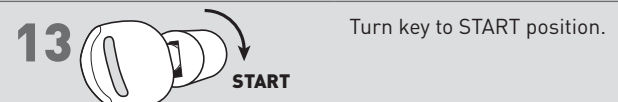
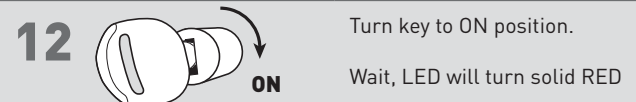
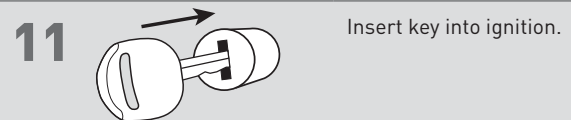
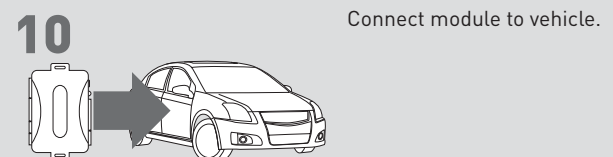
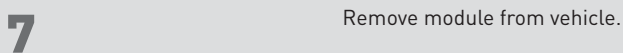
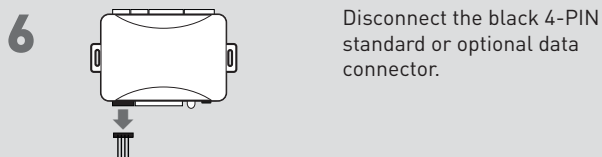
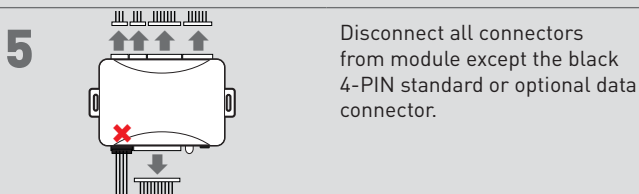
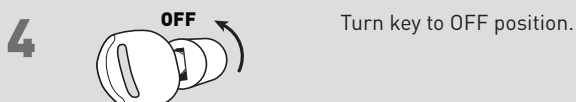
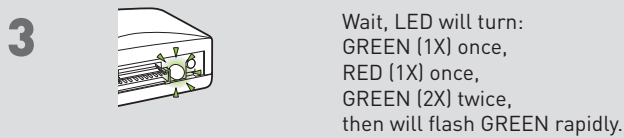
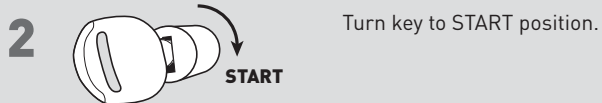
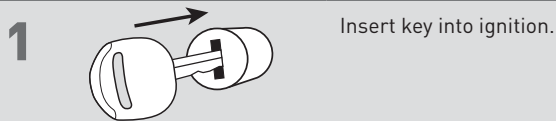


-  LED flashes (1X) once = DATA MODE
-  LED flashes (2X) twice = STANDARD HARDWARE MODE



! 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) 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.

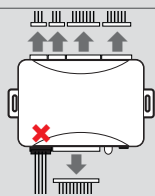
L → 1990	S → 1995	Y → 2000	5 → 2005	A → 2010
M → 1991	T → 1996	1 → 2001	6 → 2006	B → 2011
N → 1992	V → 1997	2 → 2002	7 → 2007	C → 2012
P → 1993	W → 1998	3 → 2003	8 → 2008	D → 2013
R → 1994	X → 1999	4 → 2004	9 → 2009	E → 2014

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

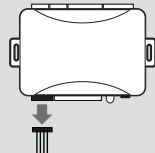
FACTORY RESET PROCEDURE

1



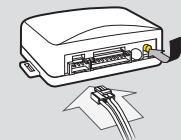
DISCONNECT all connectors from module **EXCEPT** the black 4-PIN standard or optional data connector.

2



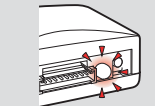
DISCONNECT black 4-PIN standard or optional data connector.

3



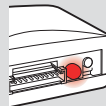
PRESS AND HOLD programming button while connecting either 4-PIN standard or optional data connector.

4



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

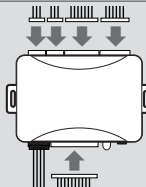
5



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.