

Automotive Data Solutions Inc.

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

SUB

AVAILABLE FOR: ADS-AL CA

Rev. Date: October 01, 2012

Doc. No.: ##9774##

20120924

VERSION FRANÇAISE DISPONIBLE EN LIGNE AU WWW.IDATALINK.COM

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

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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

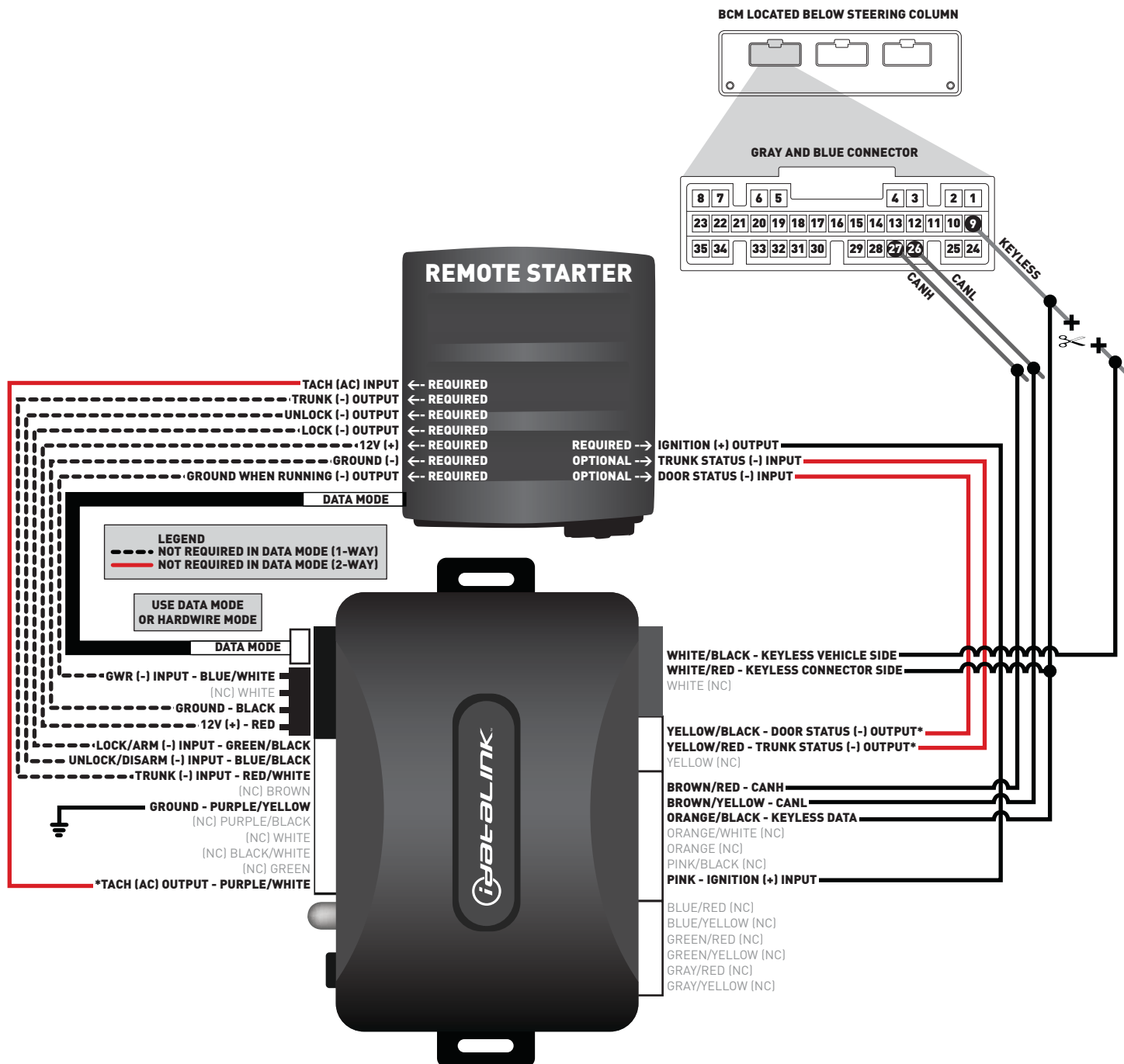
MAKE	MODEL	YEAR	INSTALL TYPE	FEATURES									
				ARM OEM ALARM	DISARM OEM ALARM	DOOR LOCK	DOOR UNLOCK	PRIORITY UNLOCK	TRUNK/HATCH RELEASE	TACHOMETER OUTPUT	DOOR STAT OUTPUT	TRUNK STAT OUTPUT	BRAKE PEDAL STAT OUTPUT
SCION	FR-S Regular key*	13	4	•	•	•	•	•	•	•	•	•	•
	BRZ Regular key*	13	4	•	•	•	•	•	•	•	•	•	•
SUBARU	Forester Regular key*	09-12	2	•	•	•	•	•	•	•	•	•	•
	Impreza Regular key*	08-11	2	•	•	•	•	•	•	•	•	•	•
	Impreza Regular key*	12	3	•	•	•	•	•	•	•	•	•	•
	Legacy Regular key*	05-09	1	•	•	•	•	•	•	•	•	•	•
	Legacy Regular key*	10-12	3	•	•	•	•	•	•	•	•	•	•
	Outback Regular key*	05-09	1	•	•	•	•	•	•	•	•	•	•
	Outback Regular key*	10-12	3	•	•	•	•	•	•	•	•	•	•
	Tribeca Regular key*	06-12	1	•	•	•	•	•	•	•	•	•	•
	WRX/STi Regular key*	12	2	•	•	•	•	•	•	•	•	•	•
	XV Crosstrek Regular key*	13	3	•	•	•	•	•	•	•	•	•	•

*IMPORTANT: The Transponder Bypass feature is available using a second module flashed with the TB-SUB firmware.
The TB-SUB firmware has an extended vehicle coverage.

TYPE 1 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
SUBARU	Legacy	05-09	CanH	~	Gray/Blue	35 pin	27	Pink	(DATA)	BCM, below steering column	~
			CanL	~	Gray/Blue	35 pin	26	Violet	(DATA)	BCM, below steering column	~
			Keyless Data	~	Gray/Blue	35 pin	09	Yellow/Green	(DATA)	BCM, below steering column	~
	Outback	05-09	CanH	~	Gray/Blue	35 pin	27	Pink	(DATA)	BCM, below steering column	~
			CanL	~	Gray/Blue	35 pin	26	Violet	(DATA)	BCM, below steering column	~
			Keyless Data	~	Gray/Blue	35 pin	09	Yellow/Green	(DATA)	BCM, below steering column	~
	Tribeca	06-12	CanH	~	Gray/Blue	35 pin	27	Pink	(DATA)	BCM, below steering column	~
			CanL	~	Gray/Blue	35 pin	26	Violet	(DATA)	BCM, below steering column	~
			Keyless Data	~	Gray/Blue	35 pin	09	Yellow/Green	(DATA)	BCM, below steering column	~

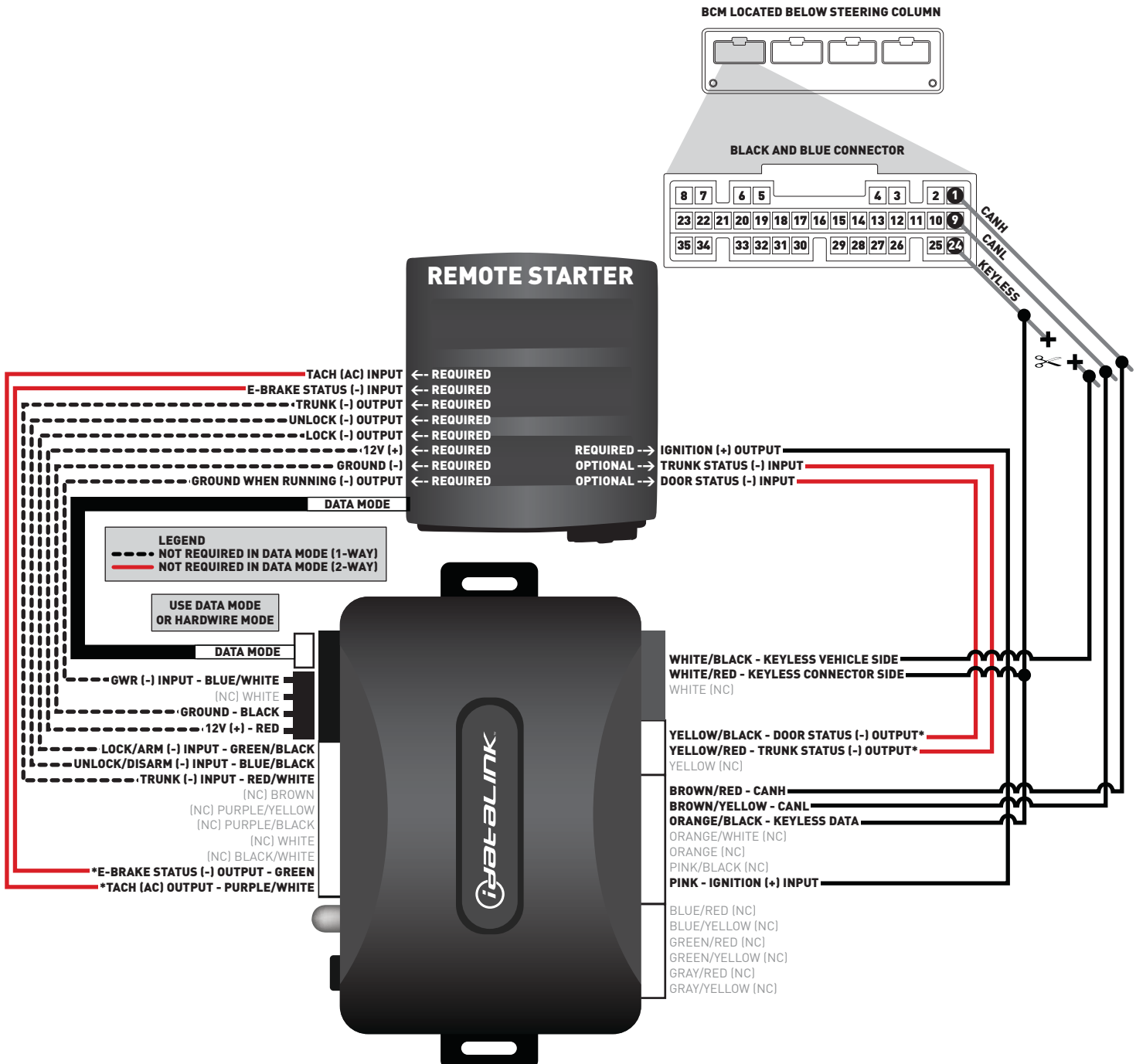
TYPE 1 - WIRING DIAGRAM



TYPE 2 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
SUBARU	Forester	09-12	CanH	~	Black/Blue	35 pin	01	Pink	(DATA)	BCM, below steering column	~
			CanL	~	Black/Blue	35 pin	09	Blue	(DATA)	BCM, below steering column	~
			Keyless Data	~	Black/Blue	35 pin	24	Gray/Red	(DATA)	BCM, below steering column	~
	Impreza	08-11	CanH	~	Black/Blue	35 pin	01	Pink	(DATA)	BCM, below steering column	~
			CanL	~	Black/Blue	35 pin	09	LtGreen/Red	(DATA)	BCM, below steering column	~
			Keyless Data	~	Black/Blue	35 pin	24	Yellow/Green	(DATA)	BCM, below steering column	~
	WRX/STi	12	CanH	~	Black/Blue	35 pin	01	Pink	(DATA)	BCM, below steering column	~
			CanL	~	Black/Blue	35 pin	09	LtGreen/Red	(DATA)	BCM, below steering column	~
			Keyless Data	~	Black/Blue	35 pin	24	Yellow/Green	(DATA)	BCM, below steering column	~

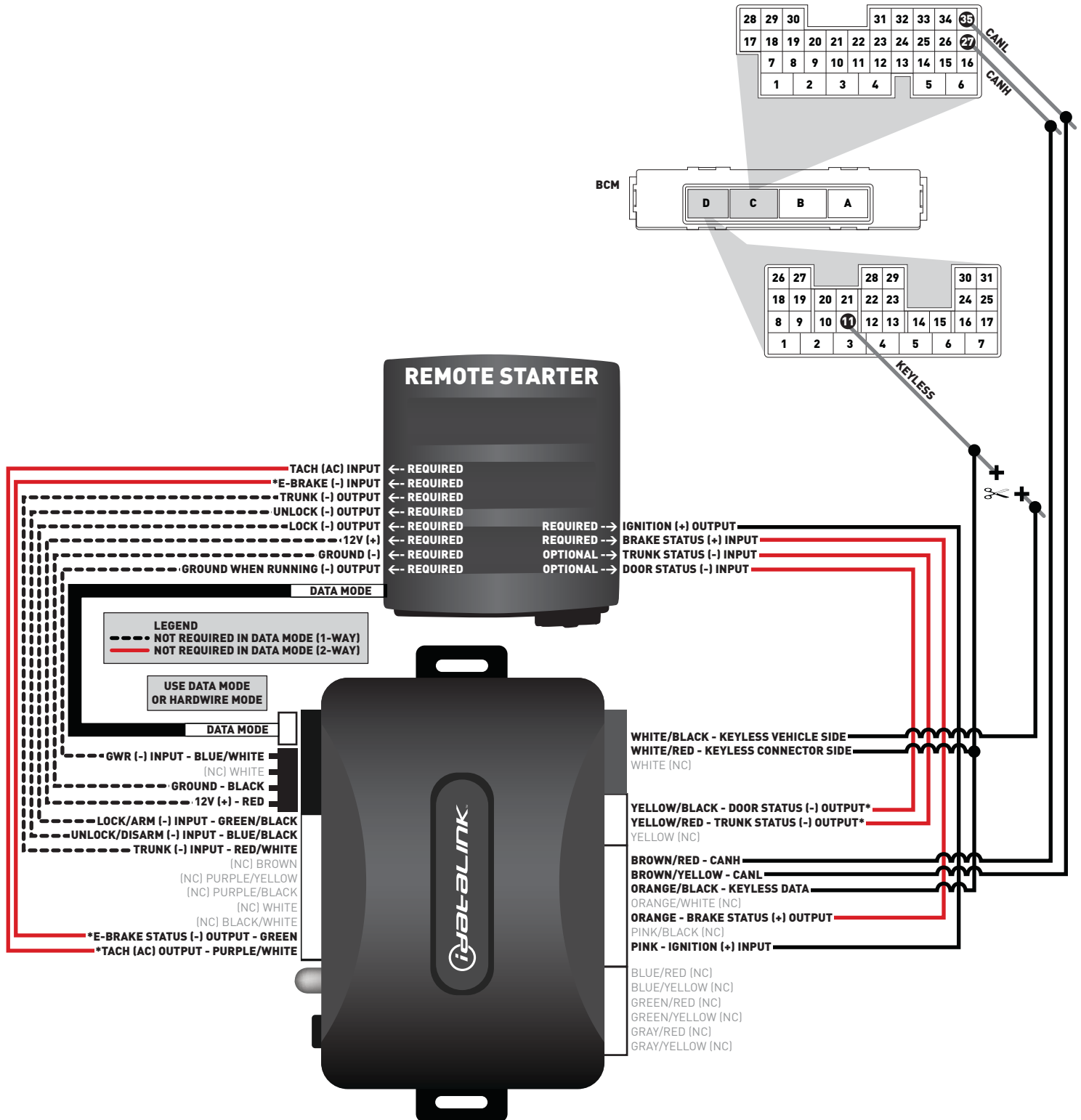
TYPE 2 - WIRING DIAGRAM



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	Keyless	D	~	31 pin	11	Red	(DATA)	BCM behind fusebox	~
			CanL	C	~	35 pin	35	Blue	(DATA)	BCM behind fusebox	~
			CanH	C	~	35 pin	27	Red	(DATA)	BCM behind fusebox	~
	Legacy	10-12	Keyless	D	~	31 pin	11	Yellow	(DATA)	BCM right side of steering column	~
			CanL	C	~	35 pin	35	Blue	(DATA)	BCM right side of steering column	~
			CanH	C	~	35 pin	27	Red	(DATA)	BCM right side of steering column	~
	Outback	10-12	Keyless	D	~	31 pin	11	Yellow	(DATA)	BCM right side of steering column	~
			CanL	C	~	35 pin	35	Blue	(DATA)	BCM right side of steering column	~
			CanH	C	~	35 pin	27	Red	(DATA)	BCM right side of steering column	~
	XV Crosstrek	13	Keyless	D	~	31 pin	11	Red	(DATA)	BCM behind fusebox	~
			CanL	C	~	35 pin	35	Blue	(DATA)	BCM behind fusebox	~
			CanH	C	~	35 pin	27	Red	(DATA)	BCM behind fusebox	~

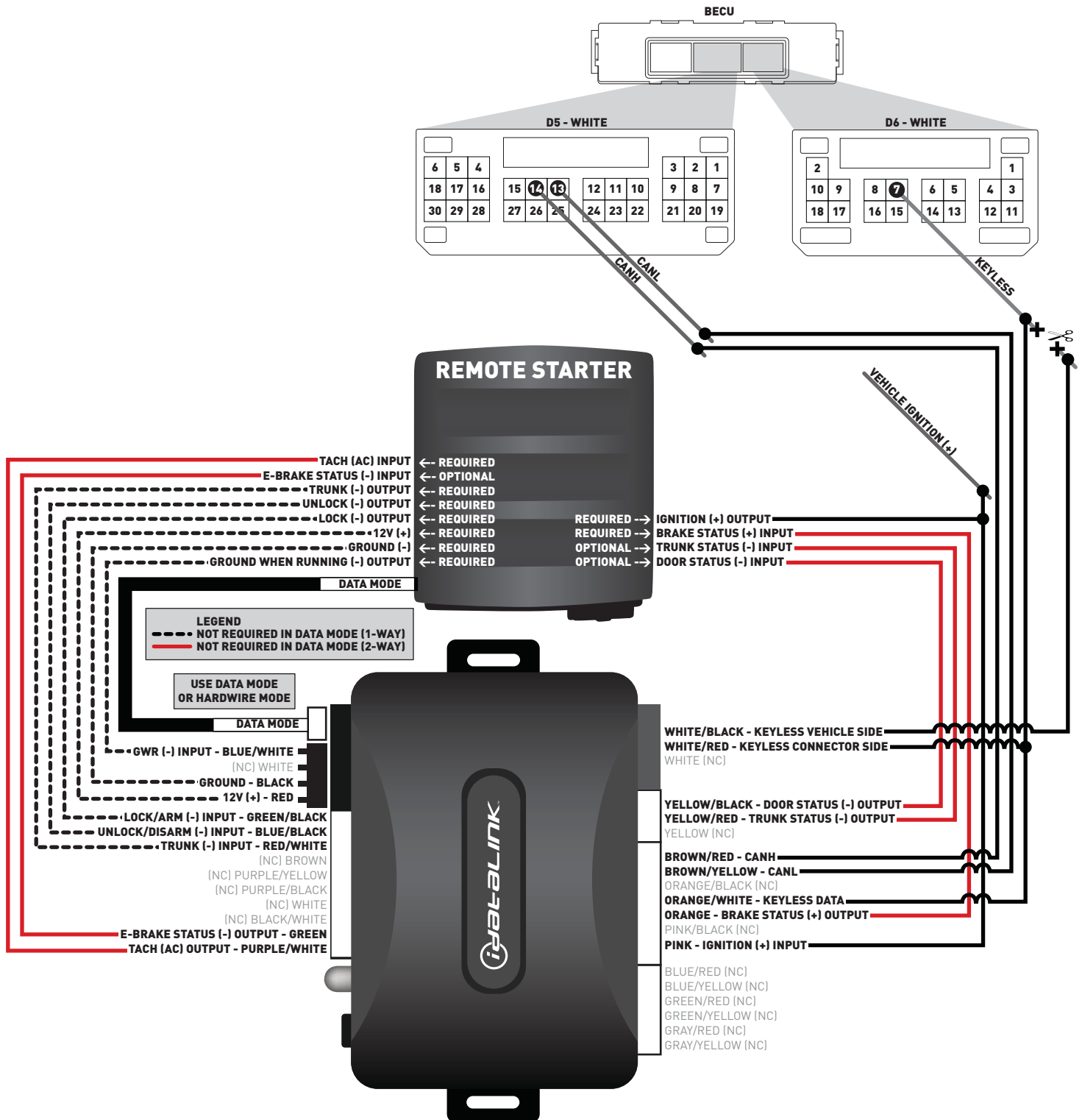
TYPE 3 - WIRING DIAGRAM



TYPE 4 - WIRE CROSS REFERENCE CHART

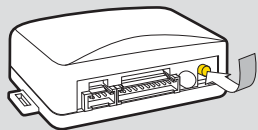
MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
SCION	FR-S	13	CanH	D5	White	30 pin	14	Pink	(DATA)	BECU, below steering column	~
			CanL	D5	White	30 pin	13	LtGreen	(DATA)	BECU, below steering column	~
			Keyless Data	D6	White	18 pin	06	Purple	(DATA)	BECU, below steering column	~
SUBARU	BRZ	13	CanH	D5	White	30 pin	14	Pink	(DATA)	BECU, below steering column	~
			CanL	D5	White	30 pin	13	LtGreen	(DATA)	BECU, below steering column	~
			Keyless Data	D6	White	18 pin	06	Purple	(DATA)	BECU, below steering column	~

TYPE 4 - WIRING DIAGRAM



INSTALLATION MODE SELECTION

1



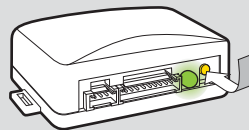
Press and release programming button to select installation mode.



LED flashes (1X) once = DATA MODE

LED flashes (2X) twice = STANDARD HARDWARE MODE

2



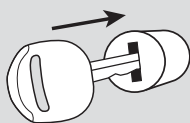
Press and hold programming button until LED turns solid GREEN to register selection.



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

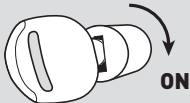
MODULE PROGRAMMING PROCEDURE

1



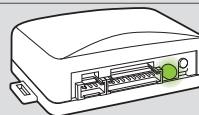
Insert key into ignition.

2



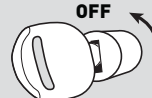
Turn key to ON position.

3



Wait, LED will turn solid GREEN for **2 seconds**.

4



Turn key to OFF position.

5

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.

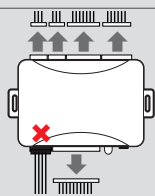
L → 1990	S → 1995	Y → 2000	5 → 2005	A → 2010
M → 1991	T → 1996	1 → 2001	6 → 2006	B → 2011
N → 1992	V → 1997	2 → 2002	7 → 2007	C → 2012
P → 1993	W → 1998	3 → 2003	8 → 2008	D → 2013
R → 1994	X → 1999	4 → 2004	9 → 2009	E → 2014

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

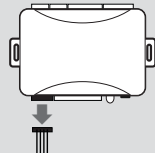
FACTORY RESET PROCEDURE

1



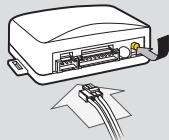
DISCONNECT all connectors from module **EXCEPT** the black 4-PIN standard or optional data connector.

2



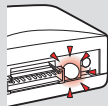
DISCONNECT black 4-PIN standard or optional data connector.

3



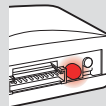
PRESS AND HOLD programming button while connecting either 4-PIN standard or optional data connector.

4



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

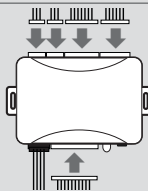
5



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.