

Automotive Data Solutions Inc.

INSTALL GUIDE

ADS-AL(DL)-SUB3-EN

SUB3

AVAILABLE FOR: ADS-AL CA

Rev. Date: July 24, 2015

Doc. No.: ##22601##

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

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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.

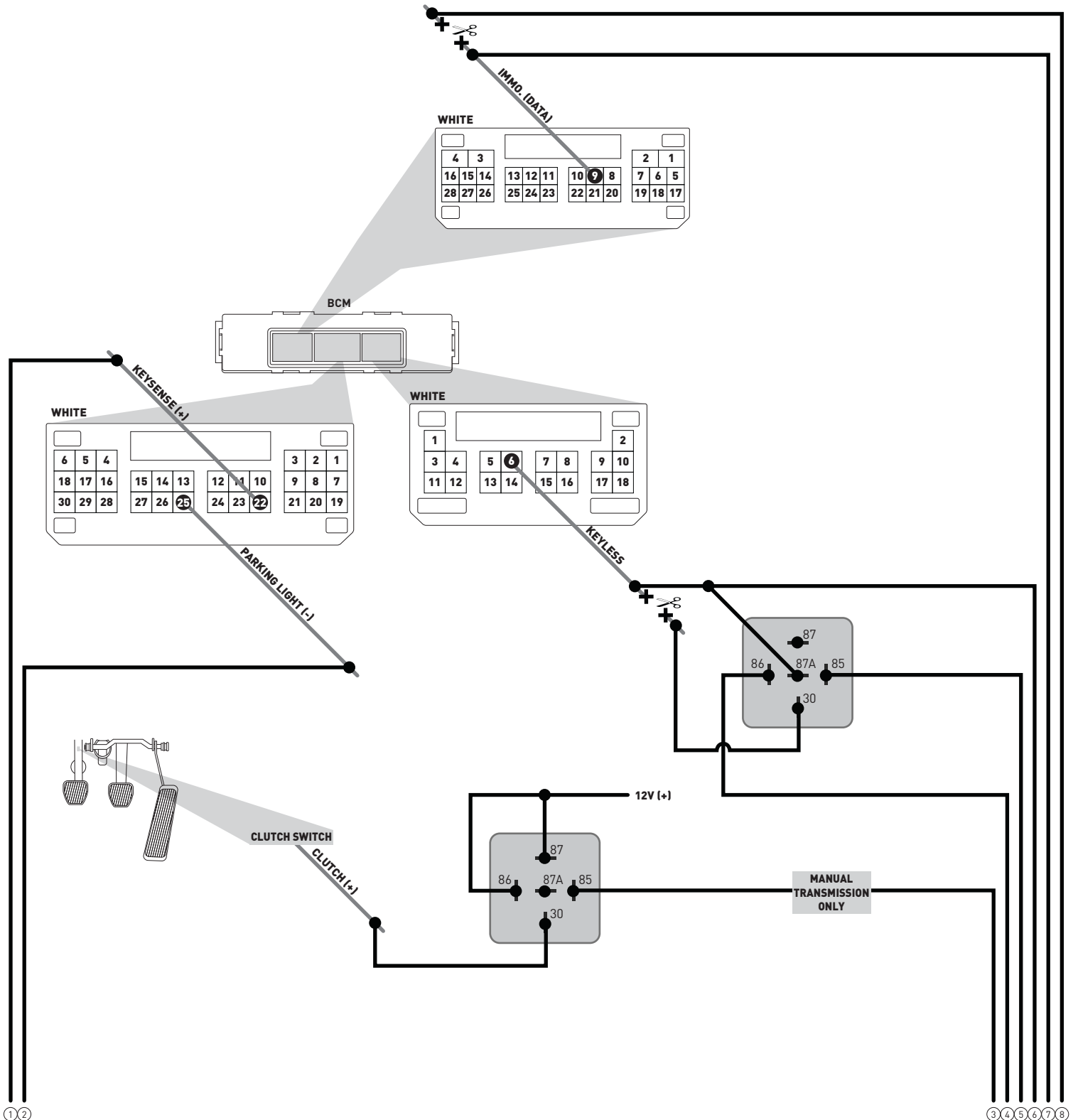
INSTALL TYPE SELECTION

MAKE	MODEL	YEAR	INSTALL TYPE	FEATURES											
				DATA IMMOBILIZER BYPASS	ARM OEM ALARM	DISARM OEM ALARM	DOOR LOCK	DOOR UNLOCK	PRIORITY UNLOCK	TRUNK/HATCH RELEASE	TACHOMETER OUTPUT	DOOR STATUS OUTPUT	TRUNK STATUS OUTPUT	BRAKE PEDAL STATUS OUTPUT	E-BRAKE OUTPUT
SCION	FR-S STD key	13-15	1	•	•	•	•	•	•	•	•	•	•	•	•
SUBARU	BRZ STD key	13-15	1	•	•	•	•	•	•	•	•	•	•	•	•
	Forester STD key	14-15	2	•	•	•	•	•	•	•	•	•	•	•	•
	Impreza STD key	12-15	2	•	•	•	•	•	•	•	•	•	•	•	•
	Legacy STD key	10-14	3	•	•	•	•	•	•	•	•	•	•	•	•
	Legacy STD key	15	4	•	•	•	•	•	•	•	•	•	•	•	•
	Outback STD key	10-14	3	•	•	•	•	•	•	•	•	•	•	•	•
	Outback STD key	15	4	•	•	•	•	•	•	•	•	•	•	•	•
	WRX STD key	15-16	2	•	•	•	•	•	•	•	•	•	•	•	•
	WRX/STi STD key	15-16	2	•	•	•	•	•	•	•	•	•	•	•	•
	XV Crosstrek STD key	13-15	2	•	•	•	•	•	•	•	•	•	•	•	•

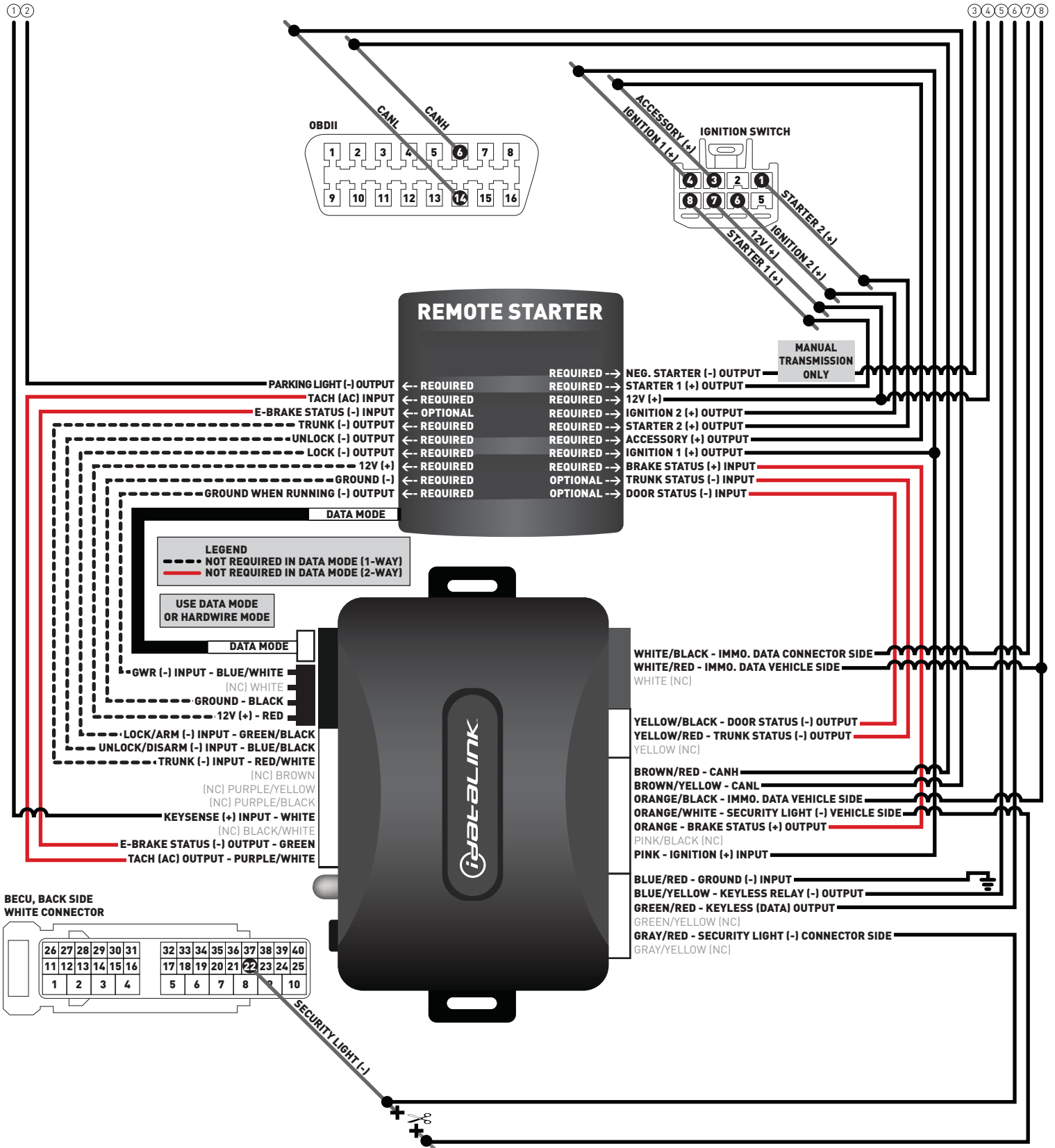
TYPE 1 - WIRE CROSS REFERENCE CHART - 1 OF 1

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
SCION	FR-S STD key	13-15	Security Light	3B	White	40 pin	22	Purple	(+)	Back side of BECU	~
			CanH	~	~	16 pin	06	Black/Yellow	(DATA)	OBDI connector	~
			CanL	~	~	16 pin	14	LtGreen	(DATA)	OBDI connector	~
			Immo Data	A73	White	28 pin	09	Yellow	(DATA)	BCM	~
			Clutch	~	White	02 pin	02	Yellow/Pink	(+)	Clutch switch	~
			Keyless Data	D6	White	18 pin	06	Purple	(DATA)	BECU, below steering column	~
			Parking Lights	D5	White	30 pin	25	Beige	(-)	BCM	~
SUBARU	BRZ STD key	13-15	Security Light	3B	White	40 pin	22	Purple	(+)	Back side of BECU	~
			CanH	~	~	16 pin	06	Black/Yellow	(DATA)	OBDI connector	~
			CanL	~	~	16 pin	14	LtGreen	(DATA)	OBDI connector	~
			Immo Data	A73	White	28 pin	09	Yellow	(DATA)	BCM	~
			Clutch	~	White	02 pin	02	Yellow/Pink	(+)	Clutch switch	~
			Keyless Data	D6	White	18 pin	06	Purple	(DATA)	BECU, below steering column	~
			Parking Lights	D5	White	30 pin	25	Beige	(-)	BCM	~
Keysense	D5	White	30 pin	22	Brown	(+)	BCM	~			

TYPE 1 - WIRING DIAGRAM - 1 OF 2



TYPE 1 - WIRING DIAGRAM - 2 OF 2



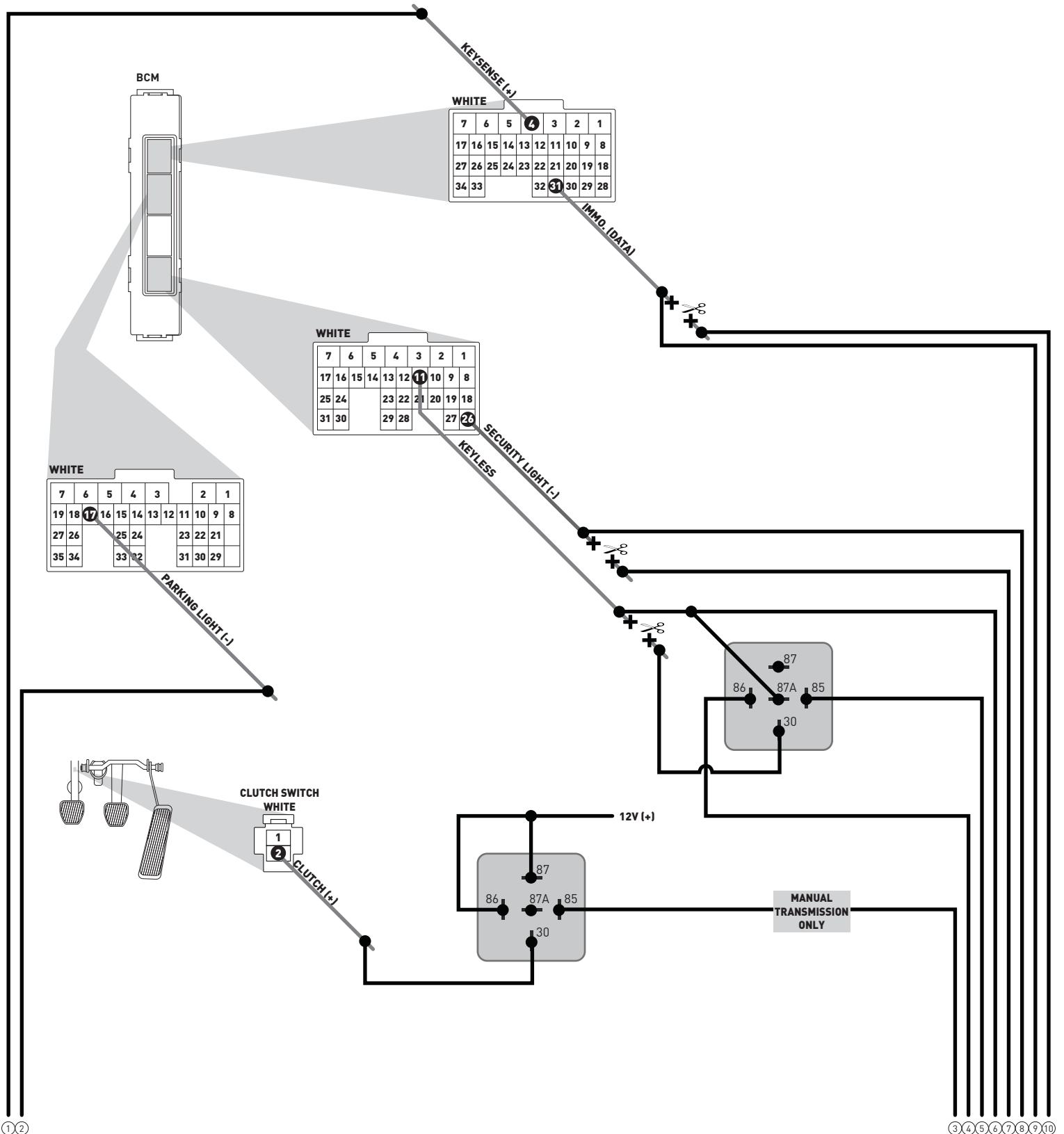
TYPE 2 - WIRE CROSS REFERENCE CHART - 1 OF 2

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
SUBARU	Forester STD key	14	Security Light	D : I171	White	31 pin	26	Brown/Red	(+)	BCM behind fusebox	~
			Keyless	D: I171	White	31 pin	11	Green	(DATA)	BCM behind fusebox	~
			CanH	~	~	16 pin	06	Red	(DATA)	OBDII connector	~
			CanL	~	~	16 pin	14	Blue	(DATA)	OBDII connector	~
			Parking Lights	B	White	35 pin	17	LtGreen	(-)	BCM behind fusebox	~
			Clutch	~	White	02 pin	02	Pink	(+)	Clutch switch	~
			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	~
			Keyless	D: I171	White	31 pin	11	Red	(DATA)	BCM behind fusebox	~
			CanH	~	~	16 pin	06	Red	(DATA)	OBDII connector	~
			CanL	~	~	16 pin	14	Blue	(DATA)	OBDII connector	~
			Parking Lights	B	White	35 pin	17	LtGreen	(-)	BCM behind fusebox	~
			Clutch	~	White	02 pin	02	Purple/Green	(+)	Clutch switch	~
			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	12-15	Security Light	D : I171	White	31 pin	26	Brown/Red	(+)	BCM behind fusebox	~
			Keyless	D: I171	White	31 pin	11	Red	(DATA)	BCM behind fusebox	~
			CanH	~	~	16 pin	06	Red	(DATA)	OBDII connector	~
			CanL	~	~	16 pin	14	Blue	(DATA)	OBDII connector	~
			Parking Lights	B	White	35 pin	17	Black/Blue	(-)	BCM behind fusebox	~
			Clutch	~	White	02 pin	02	LtGreen	(+)	Clutch switch	~
			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 STD key	15	Security Light	D : I171	White	31 pin	26	Brown/Red	(+)	BCM behind fusebox	~
			Keyless	D: I171	White	31 pin	11	Red	(DATA)	BCM behind fusebox	~
			CanH	~	~	16 pin	06	Red	(DATA)	OBDII connector	~
			CanL	~	~	16 pin	14	Blue	(DATA)	OBDII connector	~
			Parking Lights	B	White	35 pin	17	Black/Blue	(-)	BCM behind fusebox	~
			Clutch	~	White	02 pin	02	LtGreen	(+)	Clutch switch	~
			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	~	
		Keyless	D: I171	White	31 pin	11	Red	(DATA)	BCM behind fusebox	~	
		CanH	~	~	16 pin	06	Red	(DATA)	OBDII connector	~	
		CanL	~	~	16 pin	14	Blue	(DATA)	OBDII connector	~	
		Parking Lights	B	White	35 pin	17	Black/Blue	(-)	BCM behind fusebox	~	
		Clutch	~	White	02 pin	02	LtGreen	(+)	Clutch switch	~	
		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	~	

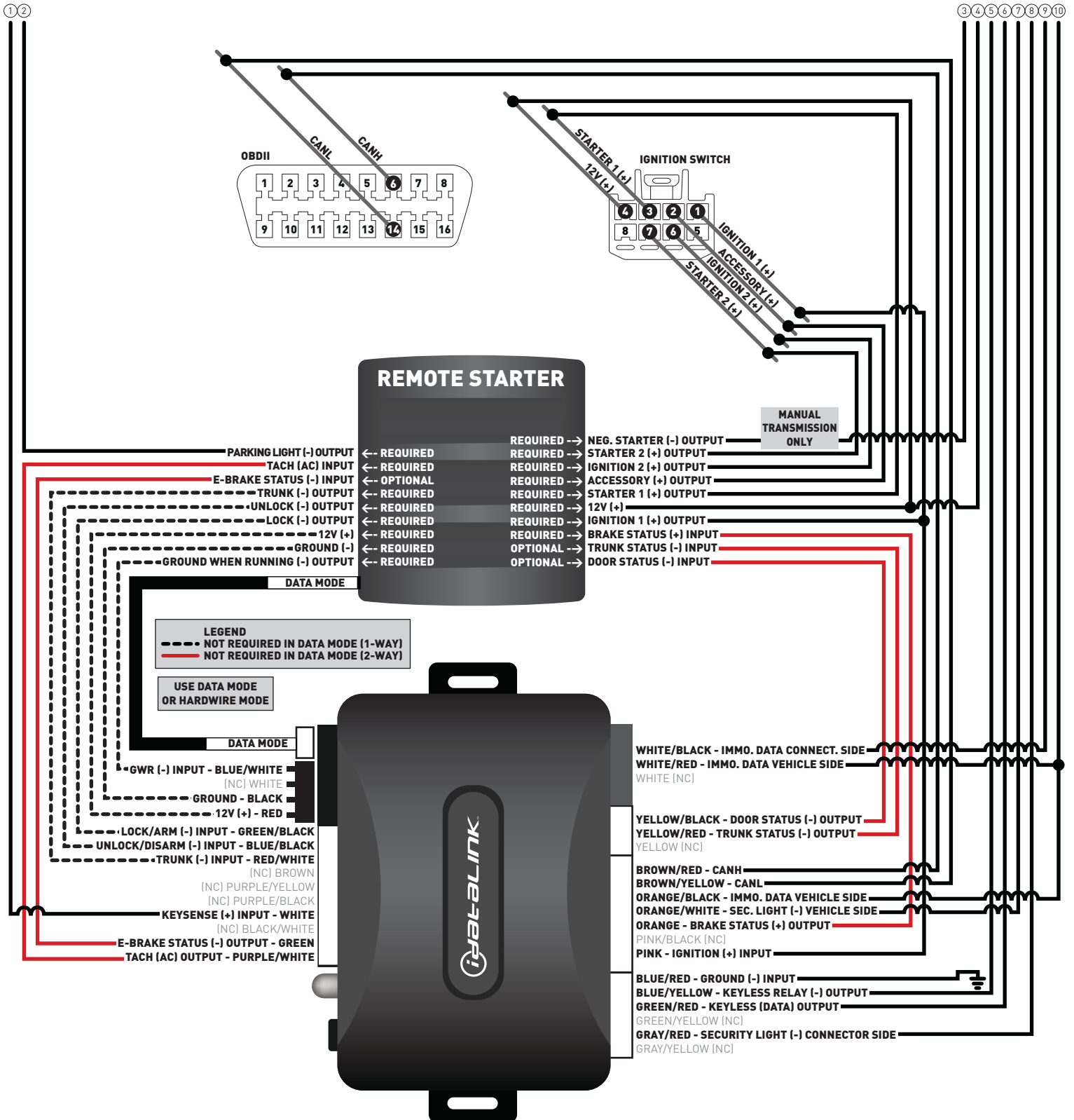
TYPE 2 - WIRE CROSS REFERENCE CHART - 2 OF 2

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
SUBARU	XV Crosstrek STD key	13-14	Security Light	D : I171	White	31 pin	26	Brown/Red	(+)	BCM behind fusebox	~
			Keyless	D: I171	White	31 pin	11	Red	(DATA)	BCM behind fusebox	~
			CanH	~	~	16 pin	06	Red	(DATA)	OBDII connector	~
			CanL	~	~	16 pin	14	Blue	(DATA)	OBDII connector	~
			Parking Lights	B	White	35 pin	17	Black/Blue	(-)	BCM behind fusebox	~
			Clutch	~	White	02 pin	02	LtGreen	(+)	Clutch switch	~
			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 2 - WIRING DIAGRAM - 1 OF 2



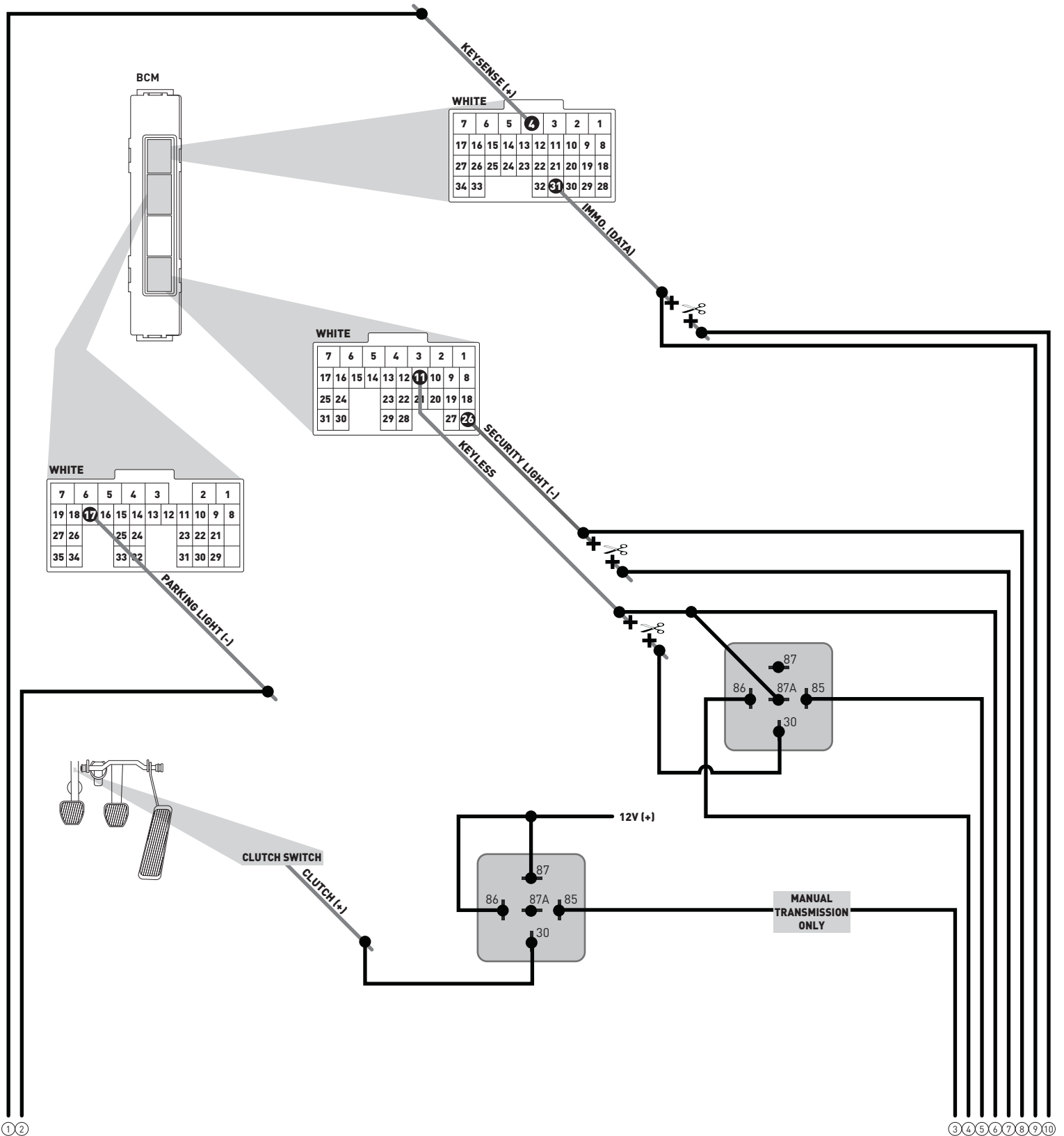
TYPE 2 - WIRING DIAGRAM - 2 OF 2



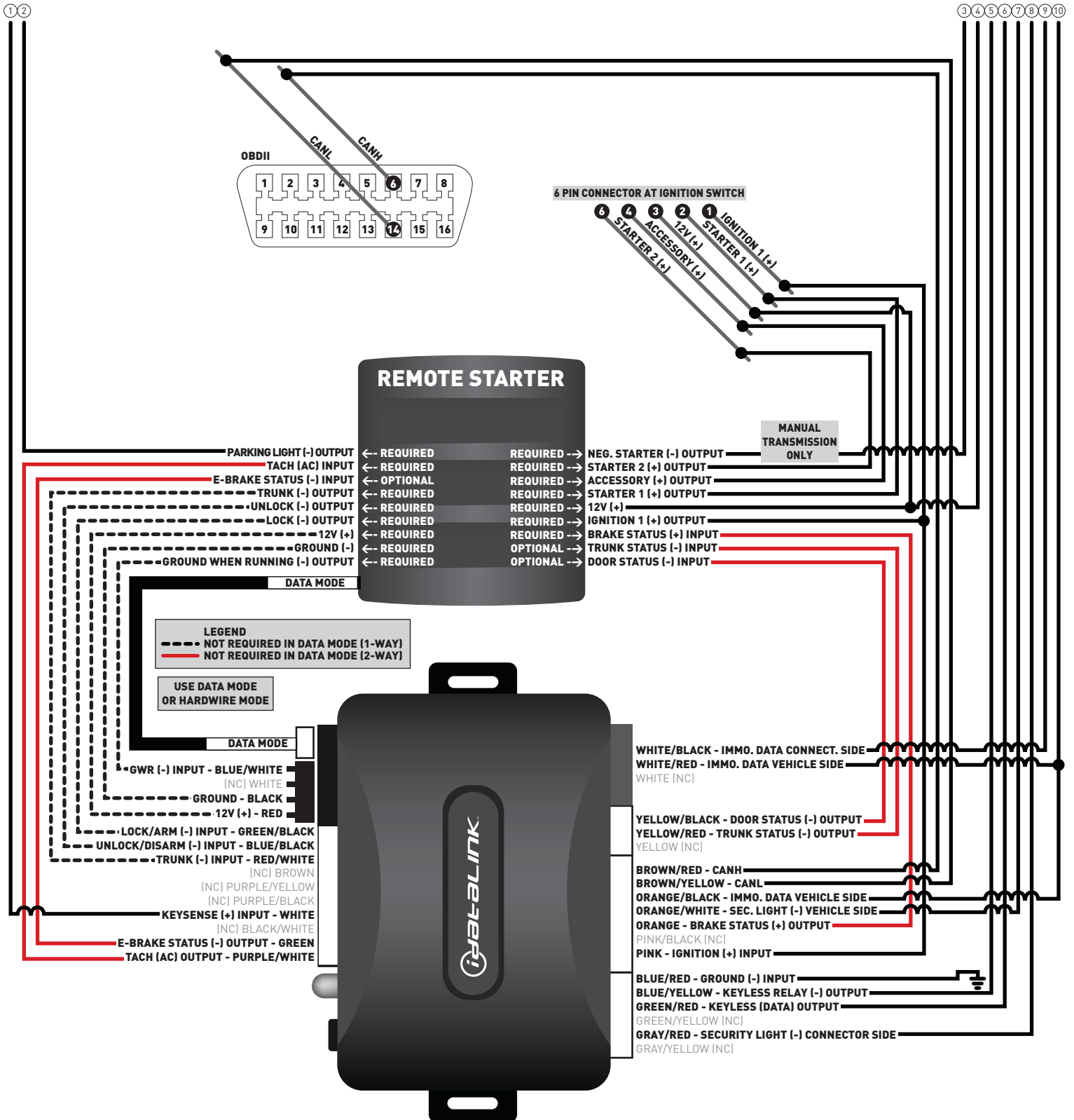
TYPE 3 - WIRE CROSS REFERENCE CHART - 1 OF 1

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
SUBARU	Legacy STD key	10-12	Security Light	D : I171	White	31 pin	26	Brown/Red	(+)	BCM right side of steering column	~
			CanH	~	~	16 pin	06	Red	(DATA)	OBDII connector	~
			CanL	~	~	16 pin	14	Blue	(DATA)	OBDII connector	~
			Keyless	D: I171	White	31 pin	11	Yellow	(DATA)	BCM right side of steering column	~
			Parking Lights	B	White	35 pin	17	Black/White	(-)	BCM right side of steering column	~
			Clutch	~	White	05 pin	02	Black/Blue	(+)	Clutch switch	~
			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	~
	Legacy STD key	13-14	Security Light	D : I171	White	31 pin	26	Brown/Red	(+)	BCM right side of steering column	~
			CanH	~	~	16 pin	06	Red	(DATA)	OBDII connector	~
			CanL	~	~	16 pin	14	Blue	(DATA)	OBDII connector	~
			Keyless	D: I171	White	31 pin	11	Yellow	(DATA)	BCM right side of steering column	~
			Parking Lights	B	White	35 pin	17	Black/White	(-)	BCM right side of steering column	~
			Clutch	~	White	05 pin	01	Black/Blue	(+)	Clutch switch	~
			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	10-12	Security Light	D : I171	White	31 pin	26	Brown/Red	(+)	BCM right side of steering column	~
			CanH	~	~	16 pin	06	Red	(DATA)	OBDII connector	~
			CanL	~	~	16 pin	14	Blue	(DATA)	OBDII connector	~
			Keyless	D: I171	White	31 pin	11	Yellow	(DATA)	BCM right side of steering column	~
			Parking Lights	B	White	35 pin	17	Black/White	(-)	BCM right side of steering column	~
			Clutch	~	White	05 pin	02	Black/Blue	(+)	Clutch switch	~
			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	13-14	Security Light	D : I171	White	31 pin	26	Brown/Red	(+)	BCM right side of steering column	~
			CanH	~	~	16 pin	06	Red	(DATA)	OBDII connector	~
			CanL	~	~	16 pin	14	Blue	(DATA)	OBDII connector	~
			Keyless	D: I171	White	31 pin	11	Yellow	(DATA)	BCM right side of steering column	~
Parking Lights			B	White	35 pin	17	Black/White	(-)	BCM right side of steering column	~	
Clutch			~	White	05 pin	01	Black/Blue	(+)	Clutch switch	~	
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	~	

TYPE 3 - WIRING DIAGRAM - 1 OF 2



TYPE 3 - WIRING DIAGRAM - 2 OF 2

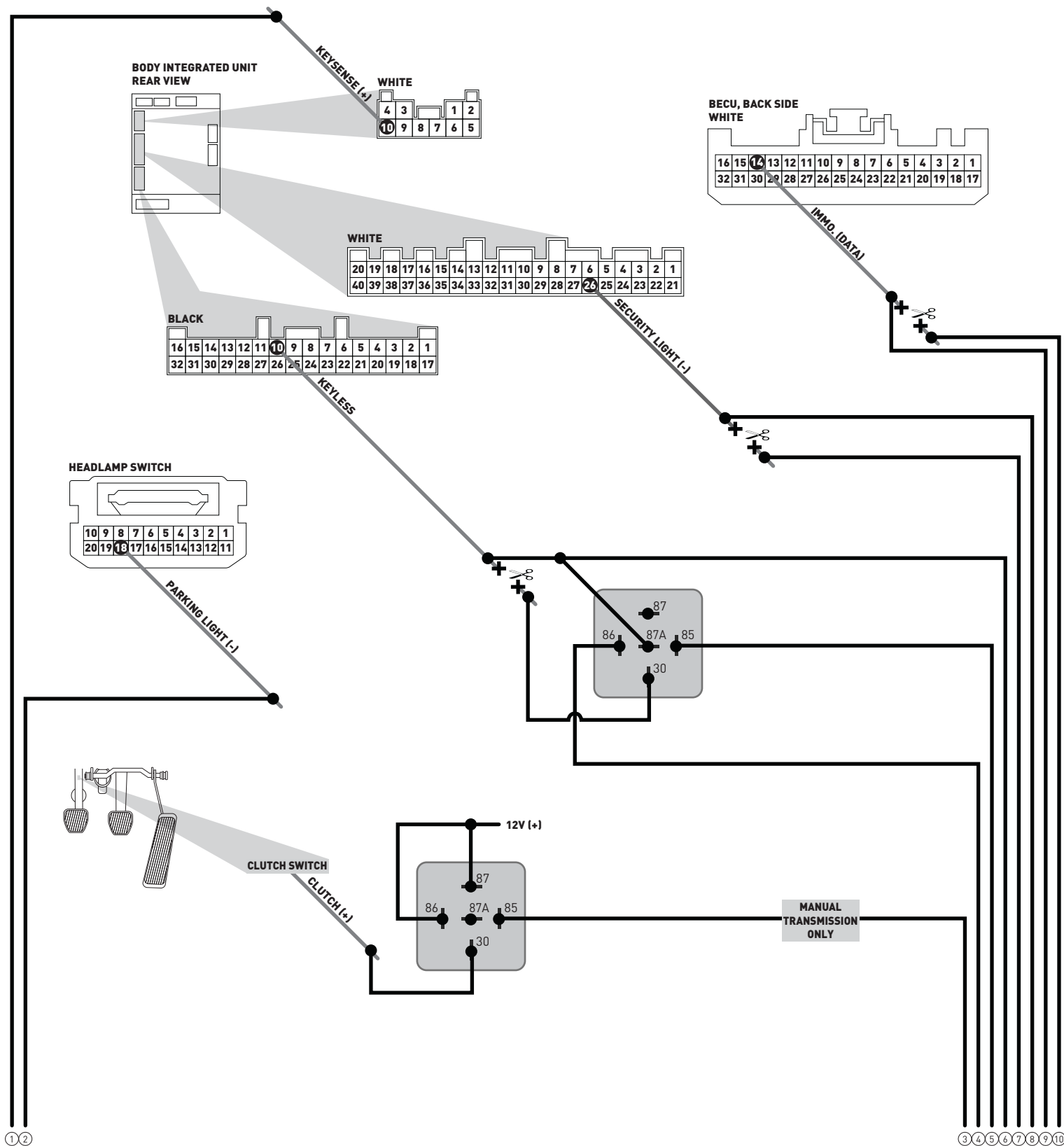


TYPE 4 - WIRE CROSS REFERENCE CHART - 1 OF 1

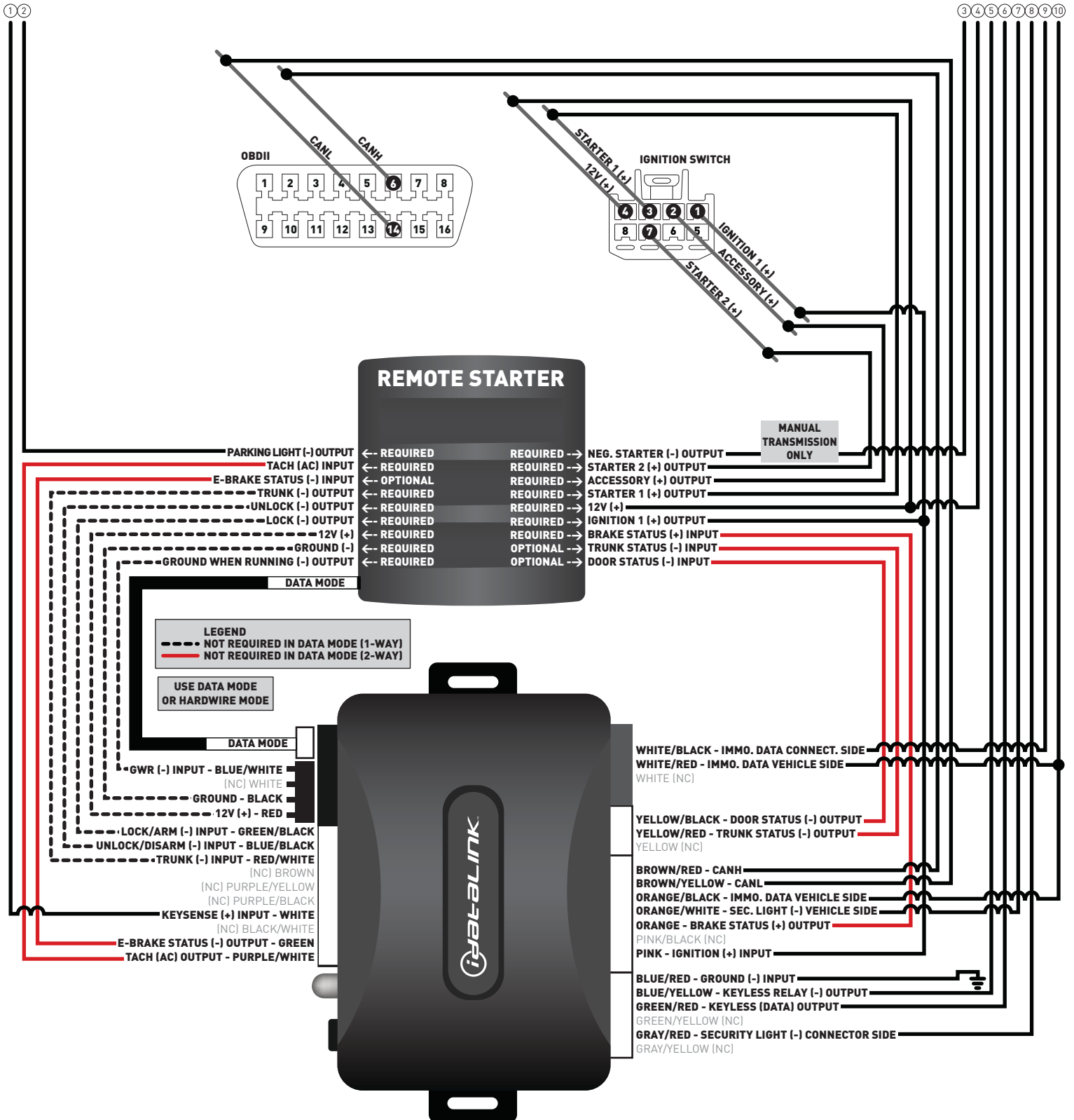
MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
SUBARU	Legacy STD key	15	Security Light	K: I171	White	40 pin	26	Brown/Yellow	(+)	Body Integrated Unit, left side, under dashboard	~
			Keyless	L: I81	Black	32 pin	10	Yellow/Green	[DATA]	Body integrated unit, left side under dashboard	~
			CanH	~	~	16 pin	06	Red	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	Blue	[DATA]	OBDII connector	~
			Parking Lights	~	White	20 pin	18	Black	(-)	Headlight switch	~
			Clutch	~	White	05 pin	01	Green/Black	(+)	Clutch switch	~
			Immo Data*	B281	White	32 pin	14	White/Blue	[DATA]	Behind fuse box, near driver kick panel	~
	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	~
			Keyless	L: I81	Black	32 pin	10	Yellow/Green	[DATA]	Body integrated unit, left side under dashboard	~
			CanH	~	~	16 pin	06	Red	[DATA]	OBDII connector	~
			CanL	~	~	16 pin	14	Blue	[DATA]	OBDII connector	~
			Parking Lights	~	White	20 pin	18	Black	(-)	Headlight switch	~
			Clutch	~	White	05 pin	01	Green/Black	(+)	Clutch switch	~
Immo Data*			B281	White	32 pin	14	White/Blue	[DATA]	Behind fuse box, near driver kick panel	~	
Keysense	J: I84	White	10 pin	10	Black/White	(+)	Body Integrated Unit, left side, under dashboard	~			

*If this wire is not present, use this alternate location: under the hood, passenger side ECU, 65 pin connector, position 38, same wire color.

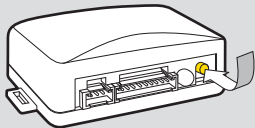
TYPE 4 - WIRING DIAGRAM - 1 OF 2





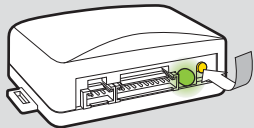
TYPE 4 - WIRING DIAGRAM - 2 OF 2



INSTALLATION MODE SELECTION

1  Press and release programming button to select installation mode.

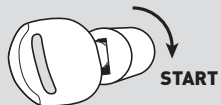
 LED flashes (1X) once = DATA MODE
 LED flashes (2X) twice = STANDARD HARDWARE MODE

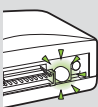
2  Press and hold programming button until LED turns solid GREEN to register selection.

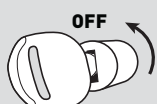
! After registration, follow Factory Reset Procedure to change installation mode and restart this procedure.

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.

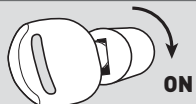
7  Remove module from vehicle.

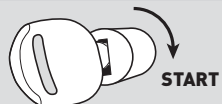
8  Connect module to computer.

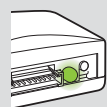
9  Proceed with extended programming.

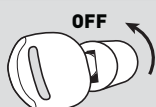
10  Connect module to vehicle.

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 (1X) once, RED (1X) once, GREEN (1X) once, RED (1X) once, GREEN (1X) once, 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), 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.