



Automotive Data Solutions Inc.

# INSTALL GUIDE

## FLC-AL(DL)-CH5-EN

# CH5

**AVAILABLE FOR: FLCAN**

*Rev. Date: April 13, 2015*

*Doc. No.: ##21670##*

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

PLEASE VISIT [WWW.FLASHLOGIC.COM](http://WWW.FLASHLOGIC.COM) FOR COMPLETE PRODUCT DETAILS

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CHRYSLER DODGE

Jeep MITSUBISHI

**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	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	E-BRAKE OUTPUT	TACHOMETER OUTPUT	DATA/MUX STARTER CTRL	RAP SHUTDOWN CTRL	
CHRYSLER	200	11-14	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	300 / 300C	05-07	1 or 6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Aspen	07-10	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	PT Cruiser	06-10	1 or 6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Sebring	07-10	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DODGE	Avenger	08-14	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Caliber (with start wire)	07	1 or 6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Caliber	07-12	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Charger	06-07	1 or 6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Dakota	05-06	4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Dakota	07-11	3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Durango	04-06	4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Durango	07-10	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Magnum	05-07	1 or 6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Nitro	07-11	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ram 1500	06	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ram 1500	07-08	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ram 1500 SRT	06	3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ram 2500	06	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ram 2500	07-09	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ram 3500	05-06	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ram 3500	07-09	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ram 3500 chassis cab	07-09	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ram 4500 chassis cab	08-10	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ram 5500 chassis cab	08-10	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Sprinter (requires key)	07-10	5		•	•	•	•	•	•	•	•	•	•	•	•	•	•	
JEEP	Commander	06-07	1 or 6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Compass	07-15	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Grand Cherokee	05-07	1 or 6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Liberty	08-12	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Patriot	07-15	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Wrangler	07-15	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
RAM	4500 chassis cab	10	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	5500 chassis cab	10	3 or 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MITSUBISHI	Raider	05-06	4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Raider	07-09	3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

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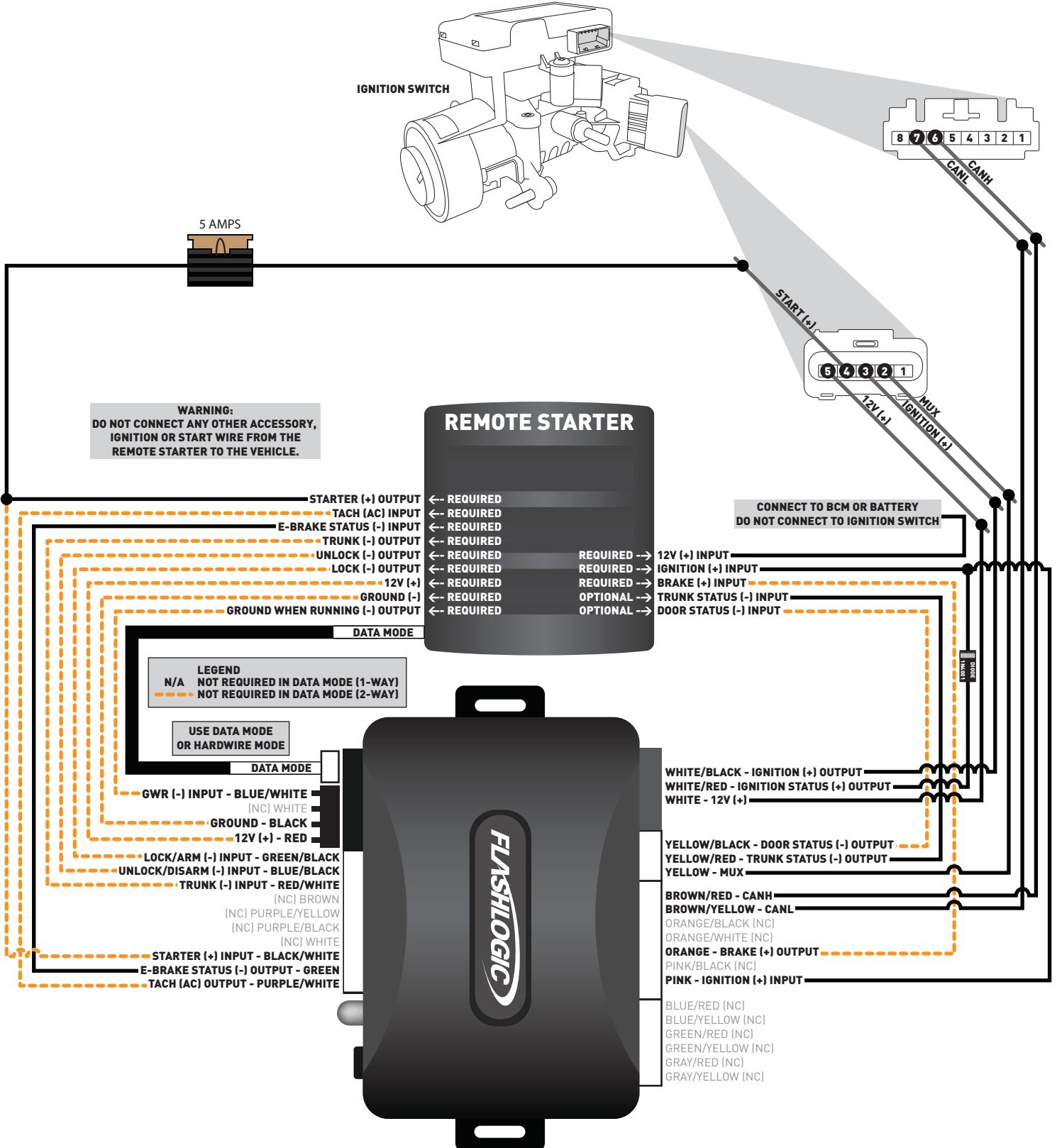
### TYPE 1 - WIRE CROSS REFERENCE CHART - 1 OF 2

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
CHRYSLER	300	05-07	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	5 pin	2	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	5 pin	3	Pink/White	(+)	Ignition switch	~
			Start	~	~	5 pin	4	Pink/DkGreen	(+)	Ignition switch	~
			12V	~	~	5 pin	5	LtBlue/Red	(+)	Ignition switch	~
	PT Cruiser	06-10	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	5 pin	2	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	5 pin	3	Pink/White	(+)	Ignition switch	~
			Start	~	~	5 pin	4	Pink/LtBlue	(+)	Ignition switch	~
			12V	~	~	5 pin	5	Red	(+)	Ignition switch	~
DODGE	Caliber with start wire	07	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White/Pink	(DATA)	Ignition switch	~
			Mux	~	~	5 pin	2	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	5 pin	3	Pink/White	(+)	Ignition switch	~
			Start	~	~	5 pin	4	Pink/LtBlue	(+)	Ignition switch	~
			12V	~	~	5 pin	5	Red/Orange	(+)	Ignition switch	~
	Charger	06-07	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	5 pin	2	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	5 pin	3	Pink/White	(+)	Ignition switch	~
			Start	~	~	5 pin	4	Pink/DkGreen	(+)	Ignition switch	~
			12V	~	~	5 pin	5	LtBlue/Red	(+)	Ignition switch	~
	Magnum	05-07	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	5 pin	2	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	5 pin	3	Pink/White	(+)	Ignition switch	~
			Start	~	~	5 pin	4	Pink/DkGreen	(+)	Ignition switch	~
			12V	~	~	5 pin	5	LtBlue/Red	(+)	Ignition switch	~
JEEP	Commander	06	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	5 pin	2	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	5 pin	3	Pink/LtGreen	(+)	Ignition switch	~
			Start	~	~	5 pin	4	Pink/Orange	(+)	Ignition switch	~
			12V	~	~	5 pin	5	Blue/Red	(+)	Ignition switch	~
	Commander	07	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	5 pin	2	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	5 pin	3	Pink/LtGreen	(+)	Ignition switch	~
			Start	~	~	5 pin	4	Pink/Orange	(+)	Ignition switch	~
			12V	~	~	5 pin	5	Blue/Red	(+)	Ignition switch	~

## 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
JEEP	Grand Cherokee	05-07	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	5 pin	2	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	5 pin	3	Pink/LtGreen	(+)	Ignition switch	~
			Start	~	~	5 pin	4	Pink/Orange	(+)	Ignition switch	~
			12V	~	~	5 pin	5	Blue/Red	(+)	Ignition switch	~

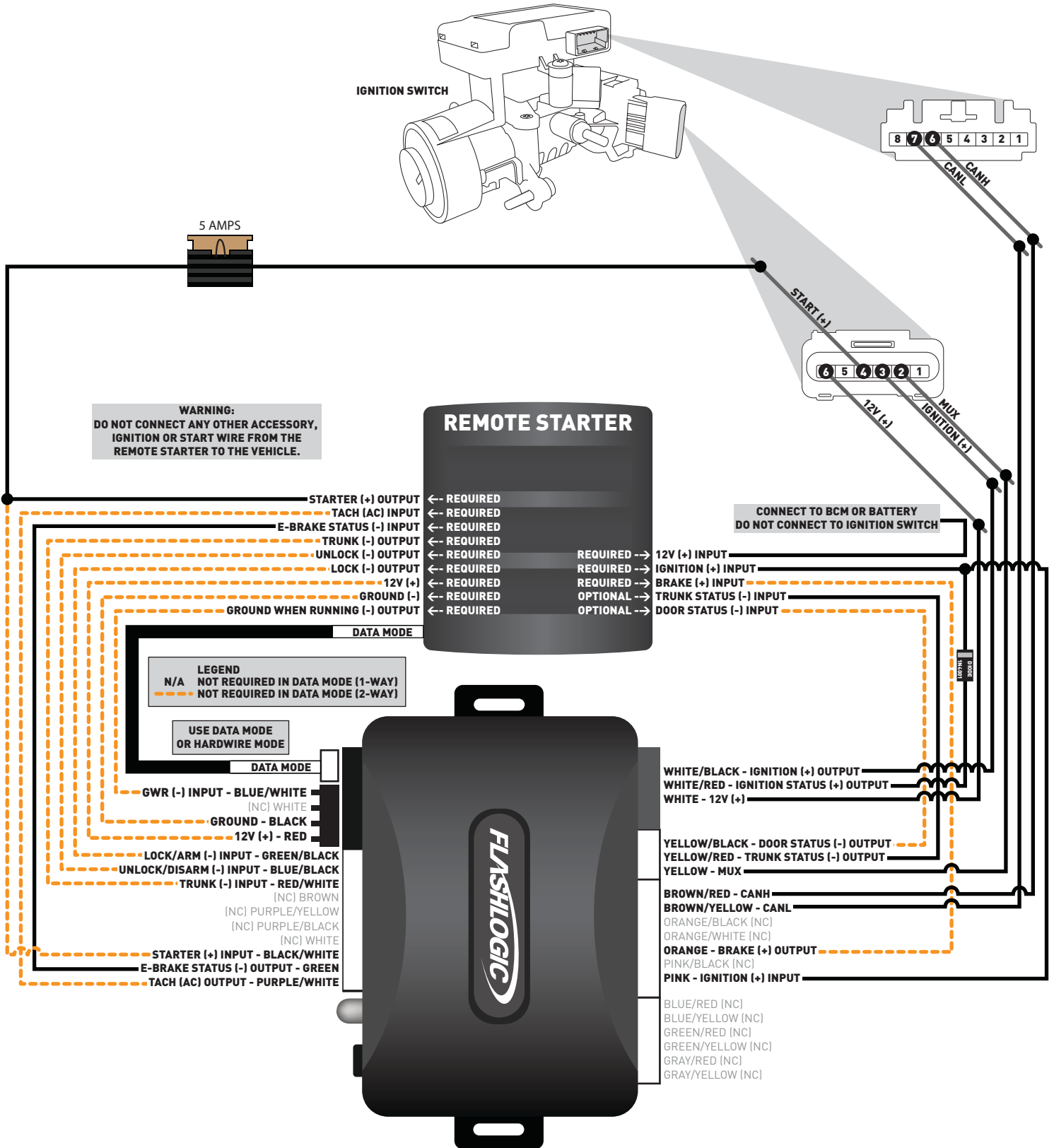
### TYPE 1 - WIRING DIAGRAM



## TYPE 2 - 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
DODGE	Ram 1500	06	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	6 pin	2	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	6 pin	3	Pink/White	(+)	Ignition switch	~
			Start	~	~	6 pin	4	DkGreen/Yellow	(+)	Ignition switch	~
			12V	~	~	6 pin	6	~	(+)	Ignition switch	~
	Ram 2500	06	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	6 pin	2	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	6 pin	3	Pink/White	(+)	Ignition switch	~
			Start	~	~	6 pin	4	DkGreen/Yellow	(+)	Ignition switch	~
			12V	~	~	6 pin	6	~	(+)	Ignition switch	~
	Ram 3500	06	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	6 pin	2	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	6 pin	3	Pink/White	(+)	Ignition switch	~
			Start	~	~	6 pin	4	DkGreen/Yellow	(+)	Ignition switch	~
			12V	~	~	6 pin	6	~	(+)	Ignition switch	~

## TYPE 2 - WIRING DIAGRAM



### TYPE 3 - WIRE CROSS REFERENCE CHART - 1 OF 2

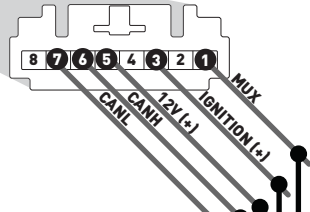
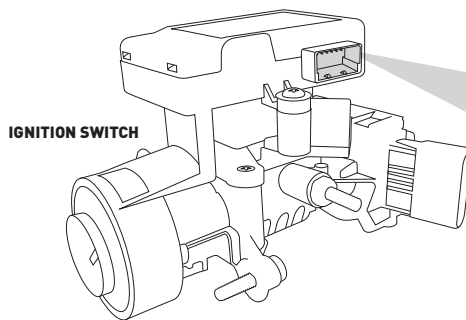
MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
CHRYSLER	200	11-14	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red	(+)	Ignition switch	~
	Aspen	07-10	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/Gray	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red	(+)	Ignition switch	~
	Sebring	07-10	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red	(+)	Ignition switch	~
DODGE	Avenger	08-14	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red	(+)	Ignition switch	~
	Caliber	07-12	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White/Pink	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/White	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red/LtBlue	(+)	Ignition switch	~
	Dakota	07-11	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/Gray	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red/LtBlue	(+)	Ignition switch	~
Durango	07-10	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~	
		CanL	~	~	8 pin	7	White/LtBlue	(DATA)	Ignition switch	~	
		Mux	~	~	8 pin	1	Purple/Brown	(DATA)	Ignition switch	~	
		Ignition	~	~	8 pin	3	Pink/Gray	(+)	Ignition switch	~	
		12V	~	~	8 pin	5	Red	(+)	Ignition switch	~	
Nitro	07-11	CanH	~	~	8 pin	6	White/LtGreen	(DATA)	Ignition switch	~	
		CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~	
		Mux	~	~	8 pin	1	Purple/Brown	(DATA)	Ignition switch	~	
		Ignition	~	~	8 pin	3	Pink/White	(+)	Ignition switch	~	
		12V	~	~	8 pin	5	Red	(+)	Ignition switch	~	
Ram Pickup	07-10	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~	
		CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~	
		Mux	~	~	8 pin	1	Purple/Brown	(DATA)	Ignition switch	~	
		Ignition	~	~	8 pin	3	Pink/White	(+)	Ignition switch	~	
		12V	~	~	8 pin	5	Gray/Red	(+)	Ignition switch	~	



### 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
JEEP	Compass	07-15	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White/Pink	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/White	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red/LtGreen	(+)	Ignition switch	~
	Liberty	08-12	CanH	~	~	8 pin	6	White/Black	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White/Blue	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/White	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red	(+)	Ignition switch	~
	Patriot	07-15	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White/Pink	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/White	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red/LtGreen	(+)	Ignition switch	~
	Wrangler	07-15	CanH	~	~	8 pin	6	White/Black	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White/LtBlue	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/White	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red	(+)	Ignition switch	~
RAM	Pickup	10	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/White	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Gray/Red	(+)	Ignition switch	~
MITSUBISHI	Raider	07-09	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(DATA)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/Gray	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red/LtBlue	(+)	Ignition switch	~

### TYPE 3 - WIRING DIAGRAM



**WARNING:**  
DO NOT CONNECT ANY OTHER ACCESSORY,  
IGNITION OR START WIRE FROM THE  
REMOTE STARTER TO THE VEHICLE.

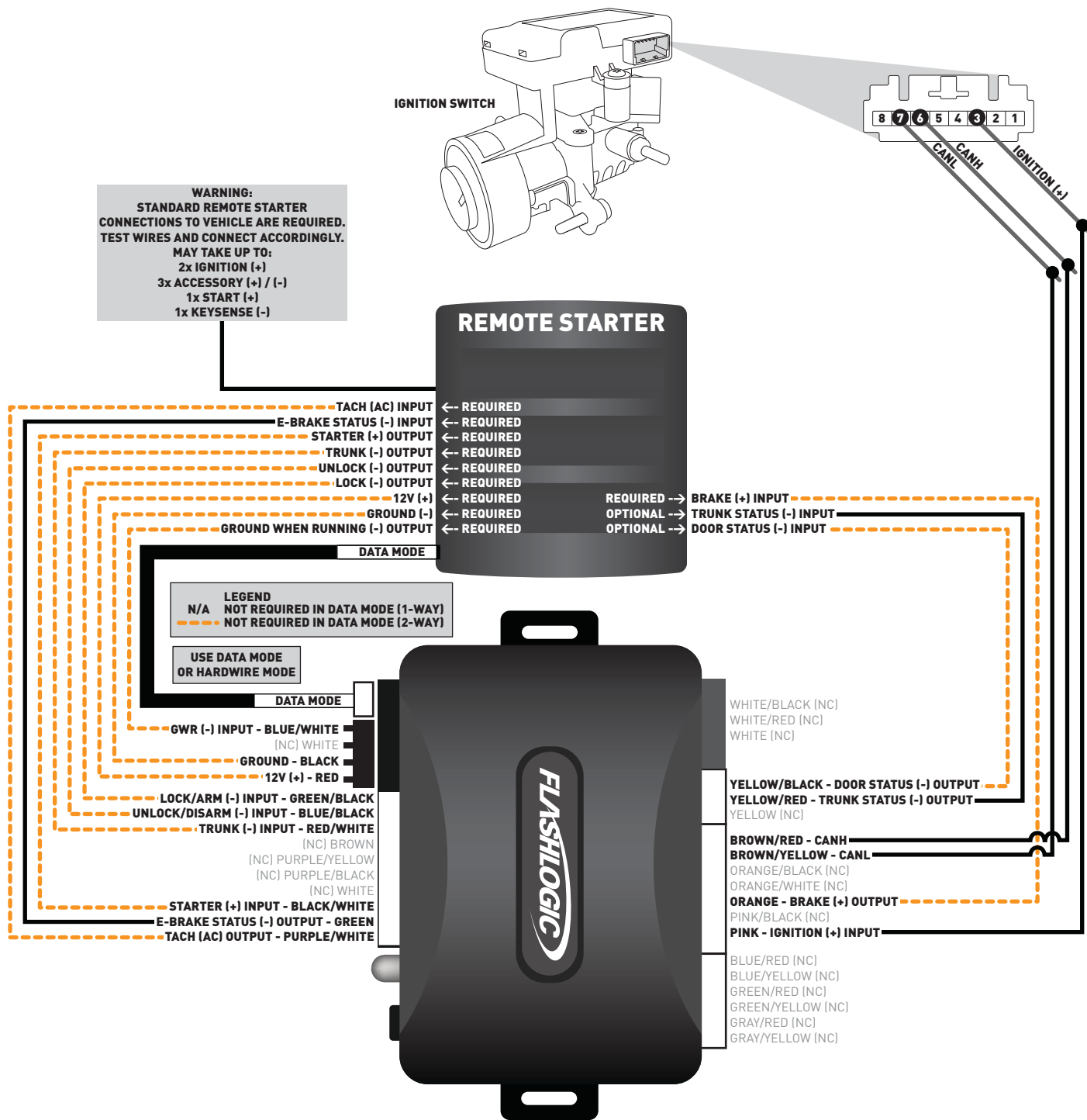
CONNECT TO BCM OR BATTERY  
DO NOT CONNECT TO IGNITION SWITCH



## 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
DODGE	Dakota	05-06	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/Gray	(+)	Ignition switch	~
DODGE	Durango	04-06	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/Gray	(+)	Ignition switch	~
MITSUBISHI	Raider	05-06	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/Gray	(+)	Ignition switch	~

### TYPE 4 - WIRING DIAGRAM



## SOLDERING NOTICE

**THIS MODIFICATION REQUIRES PRECISION SOLDERING SKILLS AND NEEDS TO BE PERFORMED WITH EXTREME CARE BY AN EXPERIENCED INSTALLER.**

### USE



It is very important not to over-heat the electronic component during the soldering process. In order to do so, we recommend to use the following precision soldering station.

### DO NOT USE



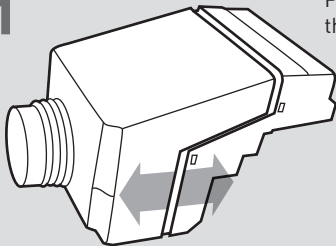
The following equipment is **NOT RECOMMENDED** for this modification as it may burn, damage, move or unsolder electronic components on the circuit board due to overheating.

## TYPE 5

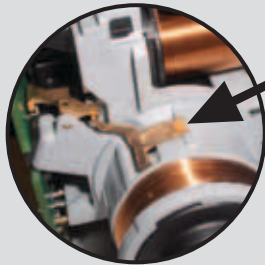
## IGNITION CYLINDER MODIFICATION

**READ CAREFULLY AND EXECUTE WITH EXTREME CARE. MANUFACTURER TAKES NO RESPONSIBILITY FOR DAMAGES TO THE KEY CYLINDER.**

1



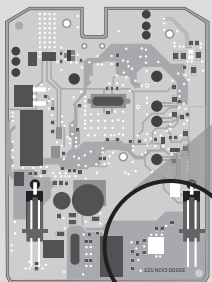
Press the release pins to open the plastic casing.



**WARNING:** PLEASE MAKE SURE THAT THE KEYSENSE TAB SHOWN IN THE PICTURE REMAINS IN ITS EXACT POSITION AND FREE TO MAKE ITS MECHANICAL MOVEMENT UPON IGNITION CYLINDER REASSEMBLY.

2

Locate the serial number on your circuit board. If the number is equal to EZS NCV3 DODGE as shown below, proceed to step 3.

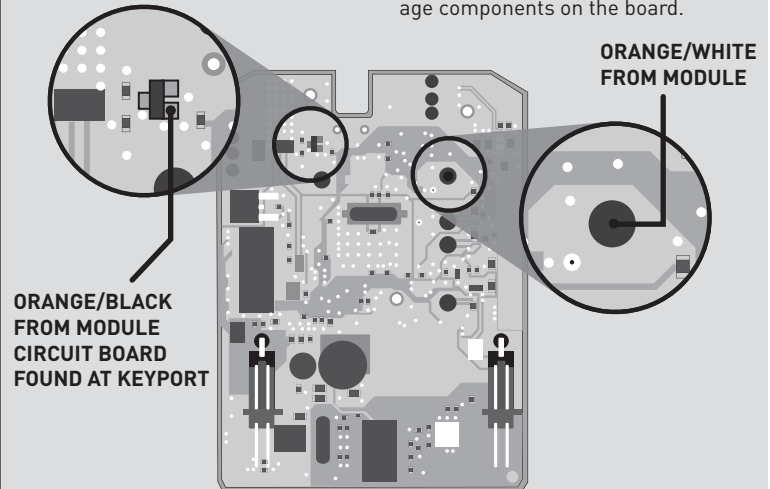


EZS NCV3 DODGE

**WARNING:** IF THE SERIAL NUMBER DOESN'T MATCH, DO NOT PROCEED WITH MODIFICATION AND CALL TECHNICAL SUPPORT FOR FURTHER ASSISTANCE.

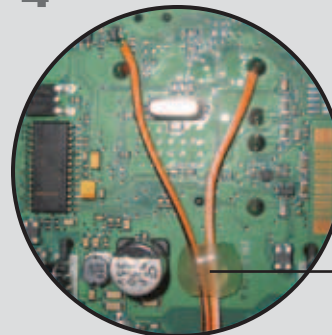
3

Solder ORANGE/WHITE and ORANGE/BLACK wires on circuit board as show below. Be careful not to overheat the welding points as it may seriously damage components on the board.



4

We strongly recommend using glue to secure the wires and to ensure long term integrity of the welds. Do not hesitate to zoom into the document to obtain a better view.

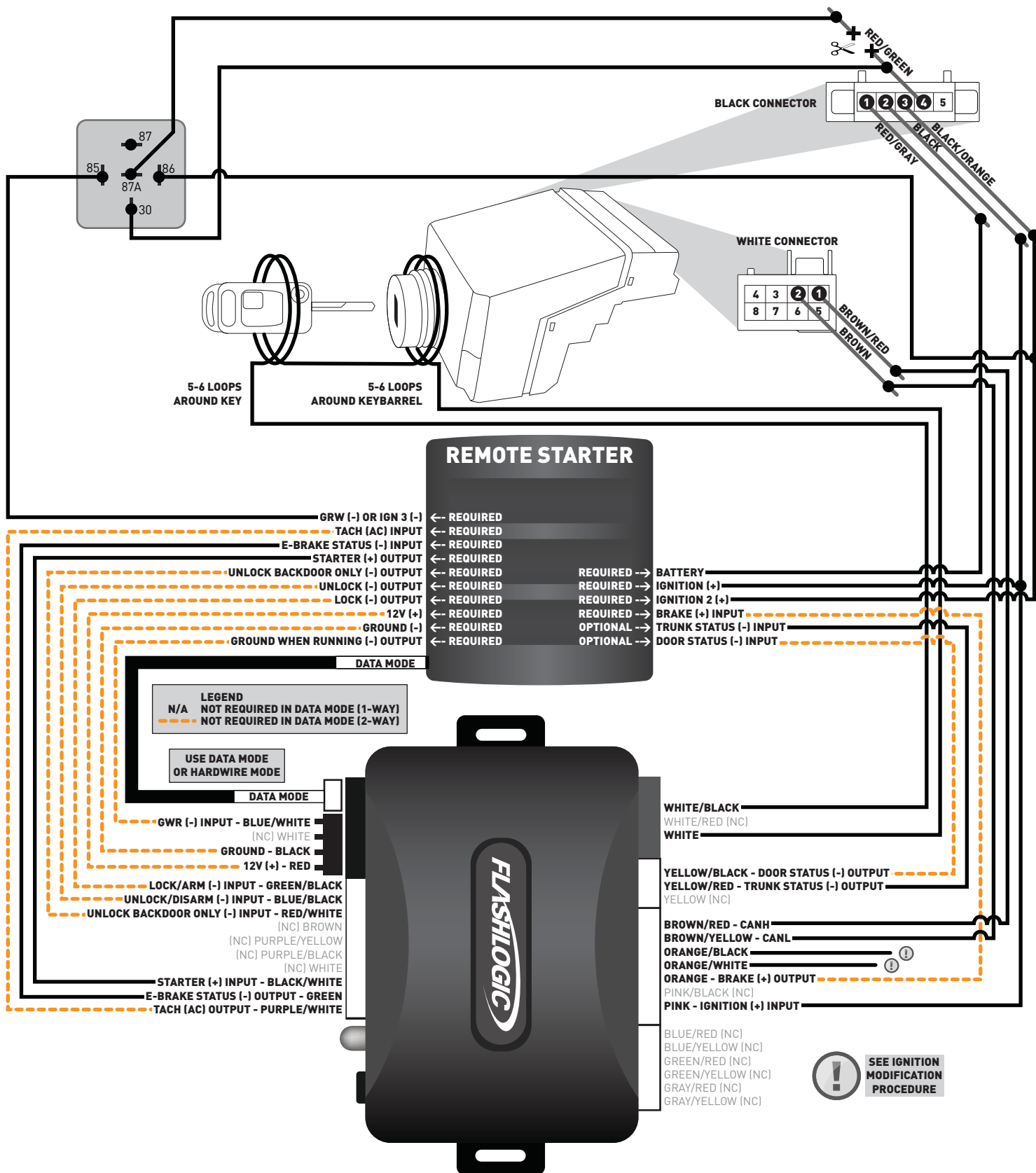


HOT GLUE

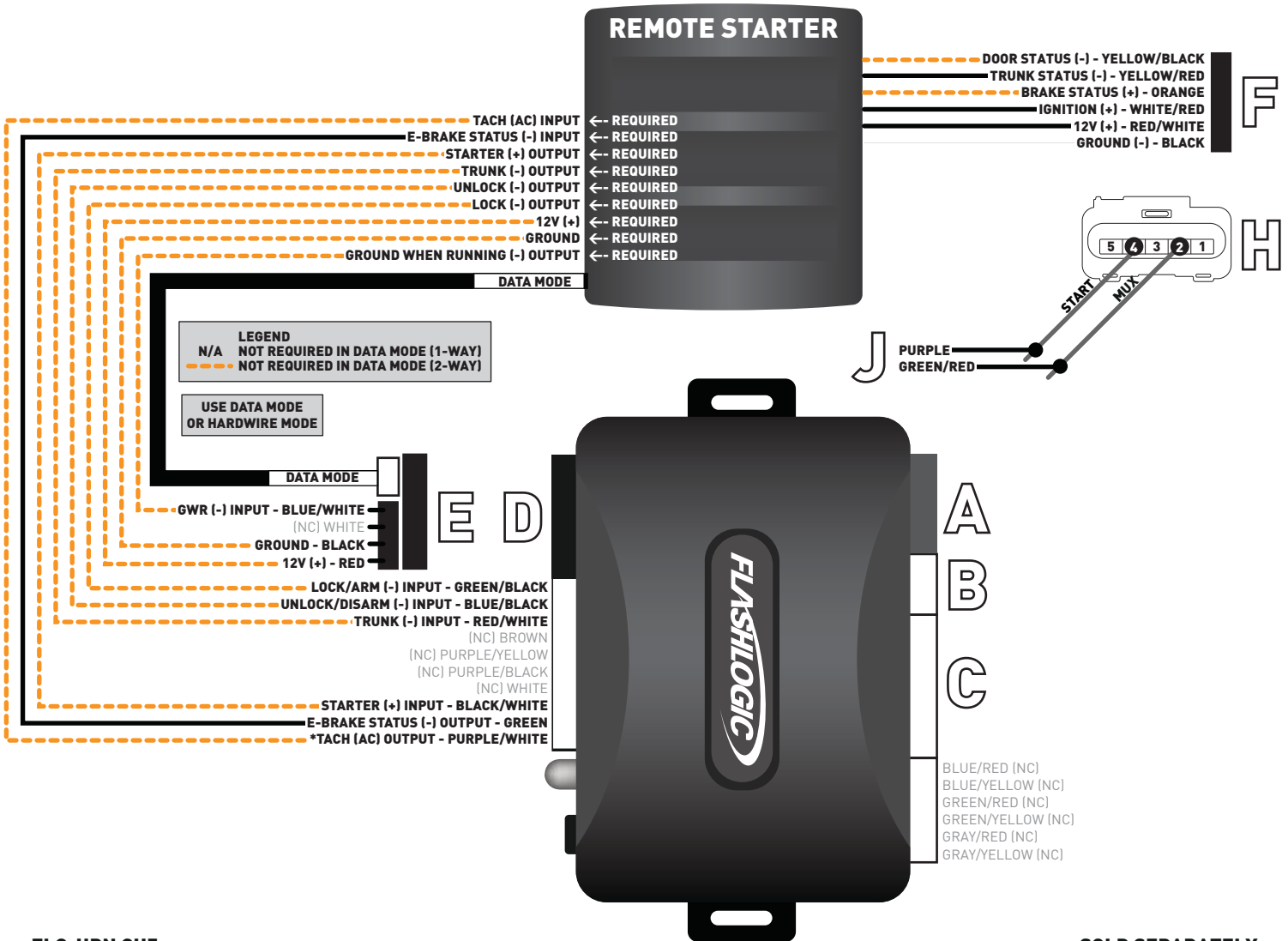
5

Place the circuit board inside the key barrel and reassemble the plastic casing.

## TYPE 5 - WIRING DIAGRAM

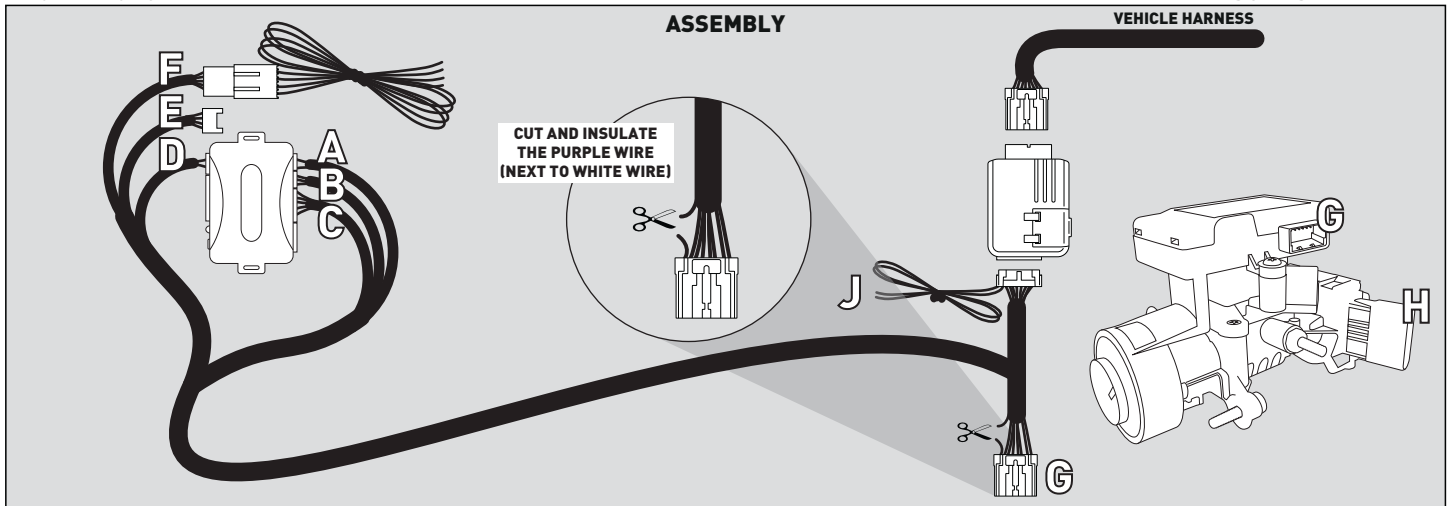


## TYPE 6 - WIRING DIAGRAM

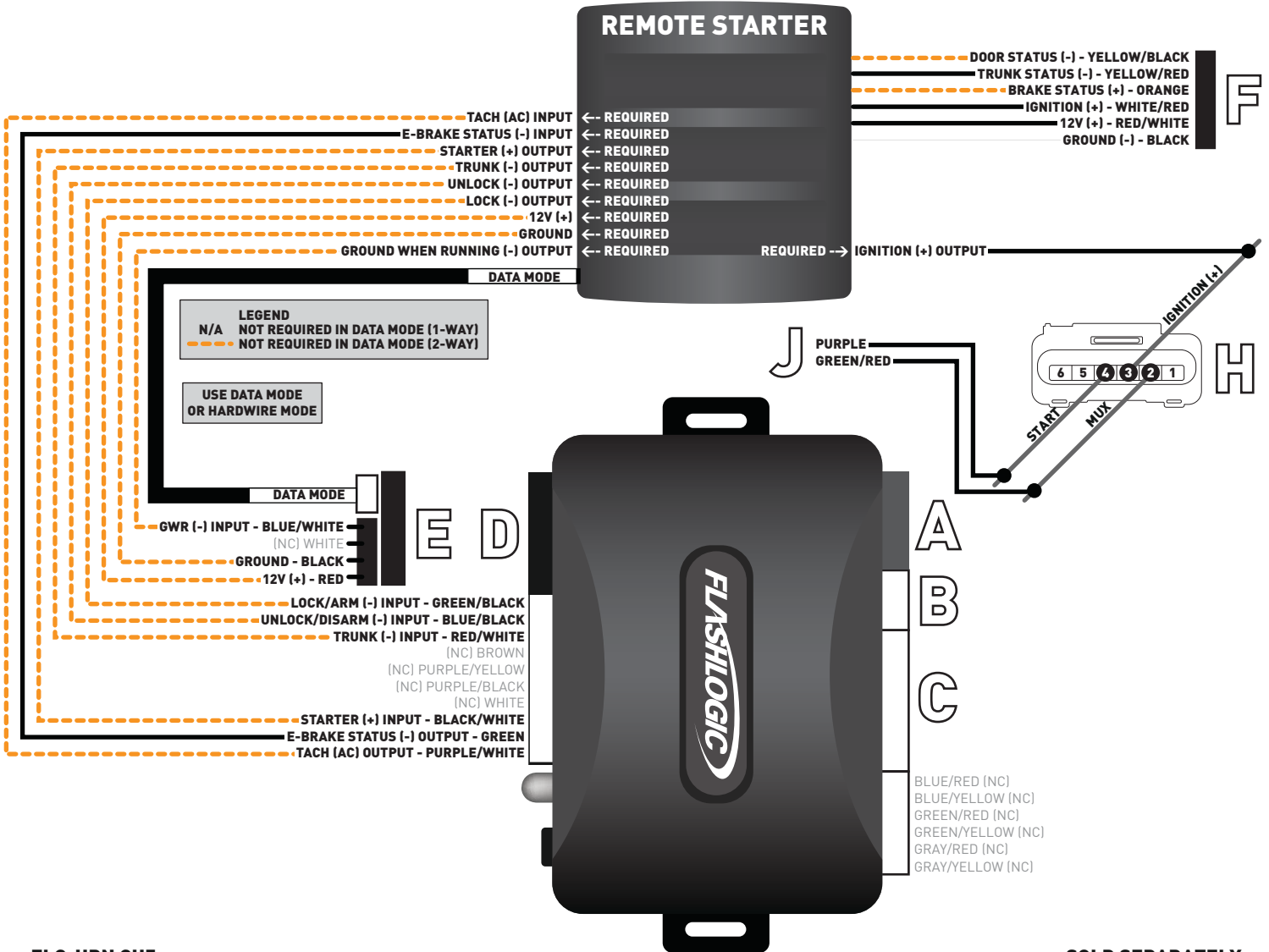


FLC-HRN CH5

SOLD SEPARATELY

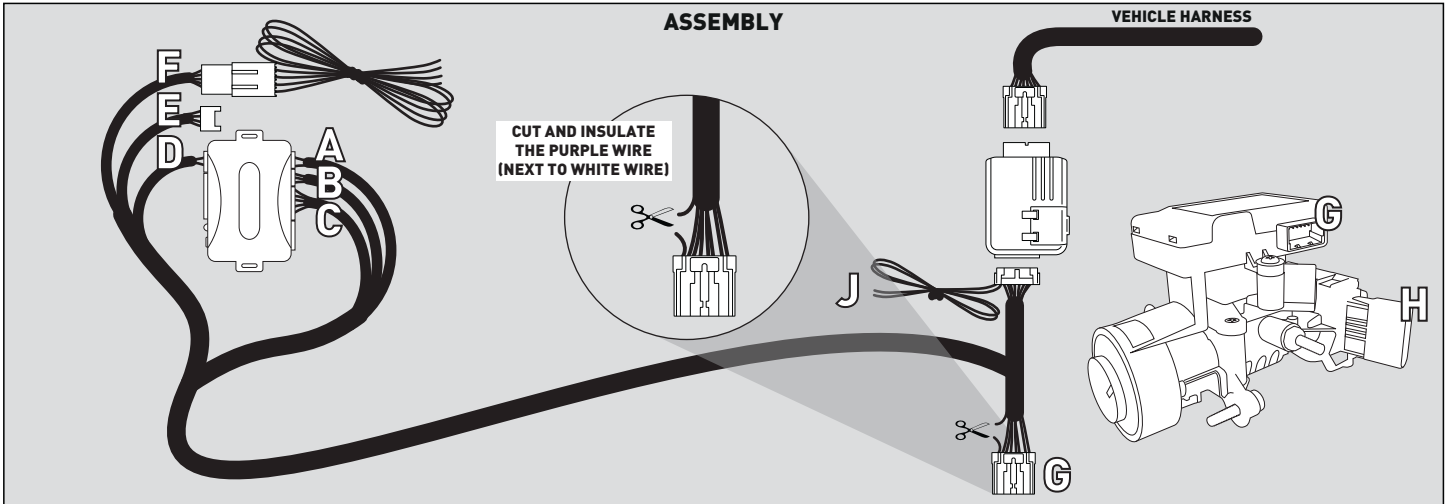


## TYPE 7 - WIRING DIAGRAM



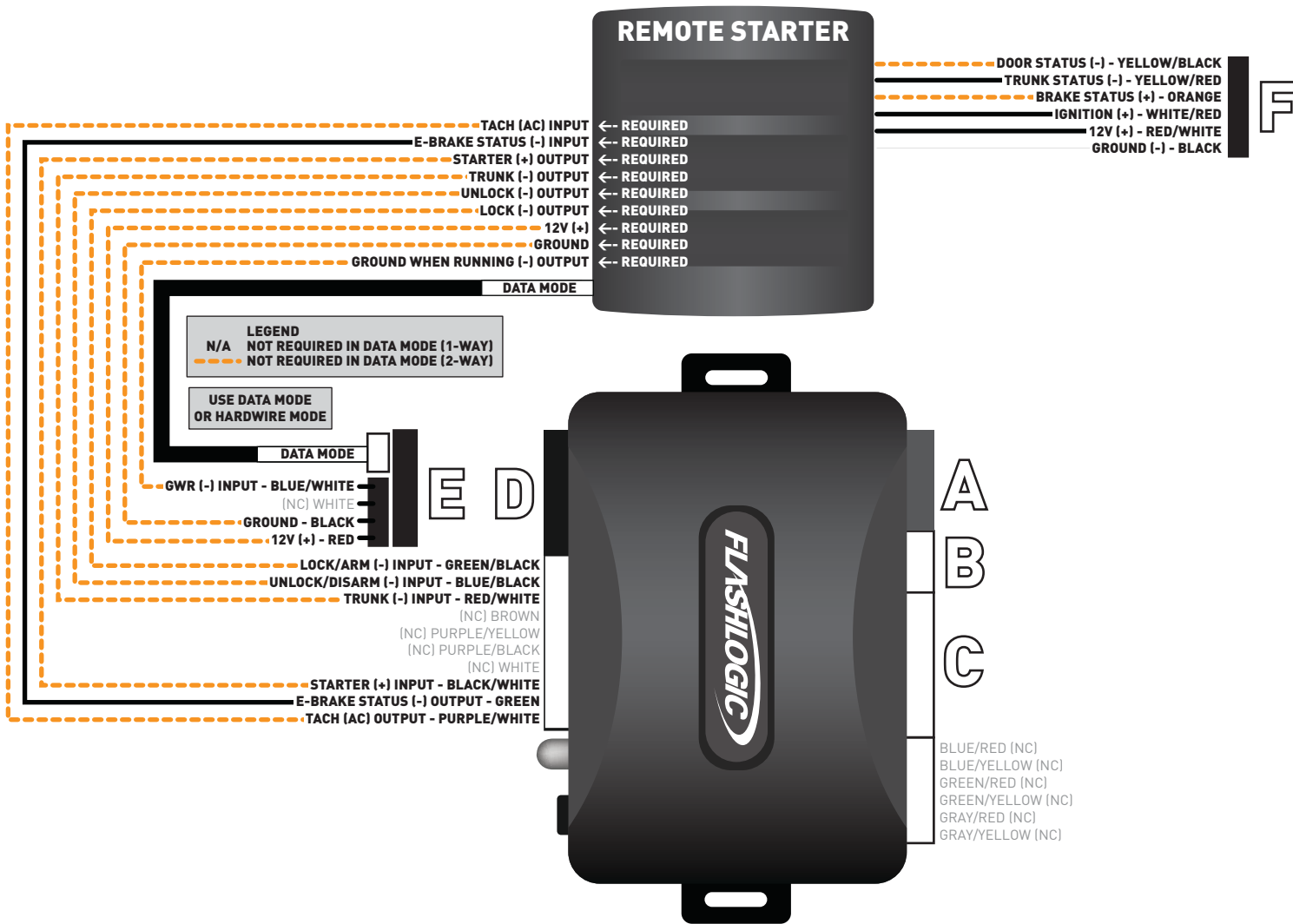
### FLC-HRN CH5

### SOLD SEPARATELY



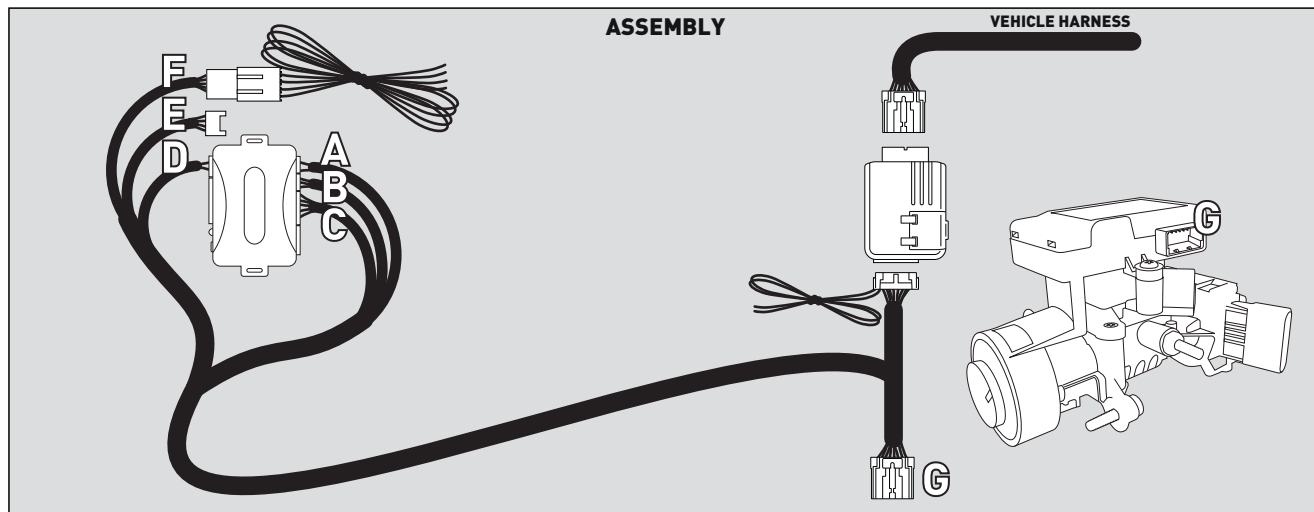


## TYPE 8 - WIRING DIAGRAM

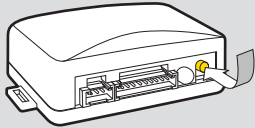




FLC-HRN CH5

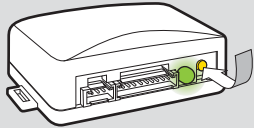
SOLD SEPARATELY



## INSTALLATION MODE SELECTION

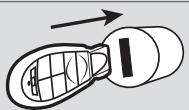
**1**  Press and release programming button to select installation mode.

 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.

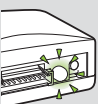
**!** After registration, follow Factory Reset Procedure to change installation mode and restart this procedure.

## TYPE 1-4 & 6-8 - MODULE PROGRAMMING PROCEDURE

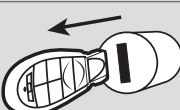
**1**  Insert key into ignition.


**2**  Turn key to ON position.

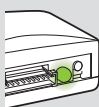
**3**  LED will turn solid RED.

**4**  Within **5 seconds**, LED will flash GREEN rapidly.

**5**  Turn key to OFF position.

**6**  Remove key.

**7**  Press UNLOCK on the OEM remote.  
  
If vehicle is not equipped with OEM remote, press module programming button.


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

**9** Module Programming Procedure completed.

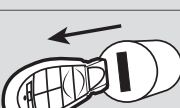
## TYPE 5 - MODULE PROGRAMMING PROCEDURE

**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**  Remove key.

**6** 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.