



Automotive Data Solutions Inc.

INSTALL GUIDE

ADS-AL(DL)-FM2-EN

FM2

AVAILABLE FOR: ADS-AL CA

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LINCOLN

mazda



MERCURY

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INSTALL TYPE SELECTION

MAKE	MODEL	YEAR	INSTALL TYPE	FEATURES						
				DATA IMMOBILIZER BYPASS	A/M RS CTRL FROM OEM REMOTES	A/M ALARM CTRL FROM OEM REMOTES	HOOD STAT OUTPUT	DOOR STAT OUTPUT	BRAKE PEDAL STAT OUTPUT	TACHOMETER OUTPUT
FORD	Edge STD key AT	07-10	1	•	•	•	•	•	•	•
	Escape / Escape Hybrid STD key AT	08-12	1	•	•	•	•	•	•	•
	Explorer STD key AT	06-10	2	•	•	•	•	•	•	•
	E-Series STD key AT	08-14	3	•	•	•	•	•	•	•
	Expedition STD key AT	07-14	3	•	•	•	•	•	•	•
	F-150 STD key AT	09-10	3	•	•	•	•	•	•	•
	F-Super Duty STD key AT	08-10	3	•	•	•	•	•	•	•
	Fiesta STD key AT	11-13	1	•	•	•	•	•	•	•
	Flex STD key AT	09-12	1	•	•	•	•	•	•	•
	Focus STD key AT	08-11	1	•	•	•	•	•	•	•
	Fusion STD key AT	06-09	2	•	•	•	•	•	•	•
	Fusion STD key AT	10-12	1	•	•	•	•	•	•	•
	Mustang Convertible / Mustang Coupe STD key AT	10-14	1	•	•	•	•	•	•	•
	SportTrac STD key AT	07-10	2	•	•	•	•	•	•	•
	Taurus STD key AT	08-12	1	•	•	•	•	•	•	•
	Taurus X STD key AT	08-09	1	•	•	•	•	•	•	•
LINCOLN	MKS STD key AT	09-12	1	•	•	•	•	•	•	•
	MKX STD key AT	07-10	1	•	•	•	•	•	•	•
	MKZ STD key AT	07-09	2	•	•	•	•	•	•	•
	MKZ/ MKZ Hybrid STD key AT	10-12	1	•	•	•	•	•	•	•
	Navigator STD key AT	07-14	3	•	•	•	•	•	•	•
	Zephyr STD key AT	06	2	•	•	•	•	•	•	•
MAZDA	Tribute STD key AT	08-11	1	•	•	•	•	•	•	•
MERCURY	Mariner / Mariner Hybrid STD key AT	08-10	1	•	•	•	•	•	•	•
	Milan STD key AT	06-09	2	•	•	•	•	•	•	•
	Milan / Milan Hybrid STD key AT	10	1	•	•	•	•	•	•	•
	Mountaineer STD key AT	06-10	2	•	•	•	•	•	•	•
	Sable STD key AT	08-09	1	•	•	•	•	•	•	•

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
FORD	Edge STD key AT	07-10	CanH	C251	Black	16 pin	03	Gray/Orange	[DATA]	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	[DATA]	OBDII connector	~
			TX	~	~	04 pin	03	Purple/Gray	[DATA]	Immobilizer	~
			RX	~	~	04 pin	04	Yellow/Orange	[OPEN]	Immobilizer	~
	Escape / Escape Hybrid STD key AT	08-12	CanH	C251	Black	16 pin	03	Gray/Orange	[DATA]	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	[DATA]	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange	[DATA]	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray	[DATA]	Immobilizer	~
	Fiesta STD key AT	11-13	CanH	C251	Black	16 pin	03	Gray/Orange	[DATA]	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	[DATA]	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange	[DATA]	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray	[DATA]	Immobilizer	~
	Flex STD key AT	09-12	CanH	C251	Black	16 pin	03	Gray/Orange	[DATA]	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	[DATA]	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange	[DATA]	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray	[DATA]	Immobilizer	~
	Focus STD key AT	08-11	CanH	C251	Black	16 pin	03	Gray/Orange	[DATA]	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	[DATA]	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange*	[DATA]	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray *	[DATA]	Immobilizer	~
	Fusion / Fusion Hybrid STD key AT	10-12	CanH	C251	Black	16 pin	03	Gray/Orange	[DATA]	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	[DATA]	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange*	[DATA]	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray *	[DATA]	Immobilizer	~
Mustang Coupe / Mustang Convertible STD key AT	10-14	CanH	C251	Black	16 pin	03	Gray/Orange	[DATA]	OBDII connector	~	
		CanL	C251	Black	16 pin	11	Purple/Orange	[DATA]	OBDII connector	~	
		TX	~	~	04 pin	03	Purple/Gray	[DATA]	Immobilizer	~	
		RX	~	~	04 pin	04	Yellow/Red	[DATA]	Immobilizer	~	
Taurus STD key AT	08-12	CanH	C251	Black	16 pin	03	Gray/Orange	[DATA]	OBDII connector	~	
		CanL	C251	Black	16 pin	11	Purple/Orange	[DATA]	OBDII connector	~	
		TX	~	~	04 pin	03	Yellow/Orange*	[DATA]	Immobilizer	~	
		RX	~	~	04 pin	04	Purple/Gray*	[DATA]	Immobilizer	~	
Taurus X STD key AT	08-09	CanH	C251	Black	16 pin	03	Gray/Orange	[DATA]	OBDII connector	~	
		CanL	C251	Black	16 pin	11	Purple/Orange	[DATA]	OBDII connector	~	
		TX	~	~	04 pin	03	Yellow/Orange	[DATA]	Immobilizer	~	
		RX	~	~	04 pin	04	Purple/Gray	[DATA]	Immobilizer	~	
LINCOLN	MKS STD key AT	09-12	CanH	C251	Black	16 pin	03	Gray/Orange	[DATA]	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	[DATA]	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange*	[DATA]	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray*	[DATA]	Immobilizer	~
	MKX STD key AT	07-10	CanH	C251	Black	16 pin	03	Gray/Orange	[DATA]	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	[DATA]	OBDII connector	~
			TX	~	~	04 pin	03	Purple/Gray	[DATA]	Immobilizer	~
			RX	~	~	04 pin	04	Yellow/Orange	[DATA]	Immobilizer	~

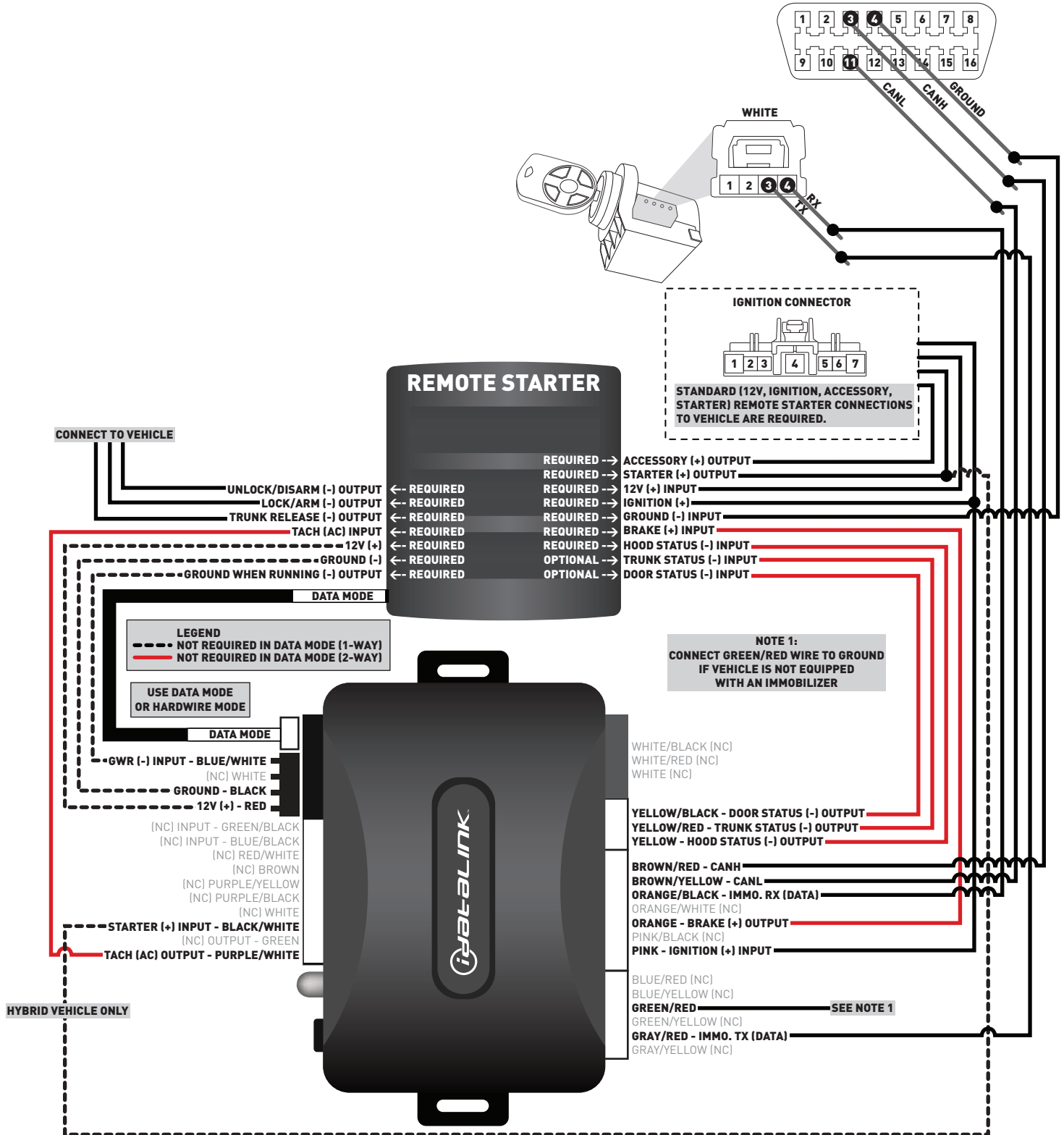
*Colors may vary but pin out is correct

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
LINCOLN	MKZ / MKZ Hybrid STD key AT	10-12	CanH	C251	Black	16 pin	03	Gray/Orange	(DATA)	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	(DATA)	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange*	(DATA)	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray *	(DATA)	Immobilizer	~
MAZDA	Tribute STD key AT	08-11	CanH	C251	Black	16 pin	03	Gray/Orange	(DATA)	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	(DATA)	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange	(DATA)	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray	(DATA)	Immobilizer	~
MERCURY	Mariner / Mariner Hybrid STD key AT	08-10	CanH	C251	Black	16 pin	03	Gray/Orange	(DATA)	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	(DATA)	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange	(DATA)	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray	(DATA)	Immobilizer	~
	Milan / Milan Hybrid STD key AT	10	CanH	C251	Black	16 pin	03	Gray/Orange	(DATA)	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	(DATA)	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange*	(DATA)	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray *	(DATA)	Immobilizer	~
	Sable STD key AT	08-09	CanH	C251	Black	16 pin	03	Gray/Orange	(DATA)	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	(DATA)	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange*	(DATA)	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray *	(DATA)	Immobilizer	~

*Colors may vary but pin out is correct

TYPE 1 - WIRING DIAGRAM - 1 OF 1



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
FORD	Explorer STD key AT	06-08	CanH	C251	Black	16 pin	03	Gray/Orange	(DATA)	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	(DATA)	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange	(DATA)	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray	(DATA)	Immobilizer	~
			Brake	C278	Gray	02 pin	02	Purple/White	(+)	At brake pedal	~
	Explorer STD key AT	09-10	CanH	C251	Black	16 pin	03	Gray/Orange	(DATA)	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	(DATA)	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange	(DATA)	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray	(DATA)	Immobilizer	~
			Brake	C278	White	04 pin	04	Purple/White	(+)	At brake pedal	~
	Fusion STD key AT	06-09	CanH	C251	Black	16 pin	03	Gray/Orange	(DATA)	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	(DATA)	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange*	(DATA)	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray*	(DATA)	Immobilizer	~
			Brake	C278	White	04 pin	04	Purple/White	(+)	At brake pedal	~
	Sport Trac STD key AT	07-08	CanH	C251	Black	16 pin	03	Gray/Orange	(DATA)	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	(DATA)	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange	(DATA)	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray	(DATA)	Immobilizer	~
			Brake	C278	Gray	02 pin	02	Purple/White	(+)	At brake pedal	~
Sport Trac STD key AT	09-10	CanH	C251	Black	16 pin	03	Gray/Orange	(DATA)	OBDII connector	~	
		CanL	C251	Black	16 pin	11	Purple/Orange	(DATA)	OBDII connector	~	
		TX	~	~	04 pin	03	Yellow/Orange	(DATA)	Immobilizer	~	
		RX	~	~	04 pin	04	Purple/Gray	(DATA)	Immobilizer	~	
		Brake	C278	Gray	04 pin	04	Purple/White	(+)	At brake pedal	~	
LINCOLN	MKZ STD key AT	07-09	CanH	C251	Black	16 pin	03	Gray/Orange	(DATA)	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	(DATA)	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange*	(DATA)	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray*	(DATA)	Immobilizer	~
			Brake	C278	White	04 pin	04	Purple/White	(+)	At brake pedal	~
	Zephyr STD key AT	06	CanH	C251	Black	16 pin	03	Gray/Orange	(DATA)	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	(DATA)	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange*	(DATA)	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray	(DATA)	Immobilizer	~
			Brake	C278	White	04 pin	04	Purple/White	(+)	At brake pedal	~
MERCURY	Milan STD key AT	06-09	CanH	C251	Black	16 pin	03	Gray/Orange	(DATA)	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	(DATA)	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange*	(DATA)	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray*	(DATA)	Immobilizer	~
			Brake	C278	White	04 pin	04	Purple/White	(+)	At brake pedal	~

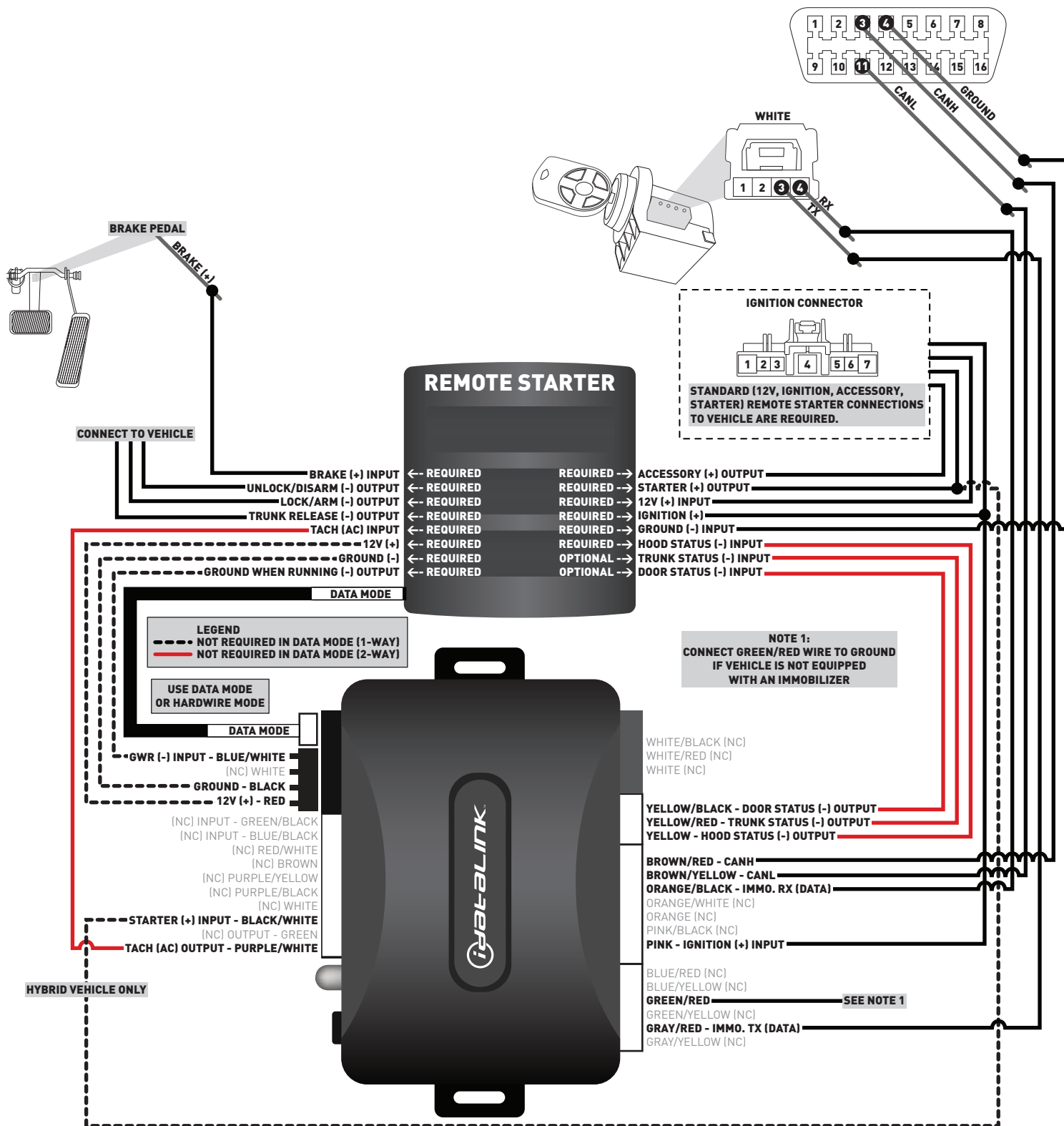
*Colors may vary but pin out is correct

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
MERCURY	Mountainer STD key AT	06-08	CanH	C251	Black	16 pin	03	Gray/Orange	(DATA)	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	(DATA)	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange	(DATA)	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray	(DATA)	Immobilizer	~
			Brake	C278	Gray	02 pin	02	Purple/White	(+)	At brake pedal	~
	Mountainer STD key AT	09-10	CanH	C251	Black	16 pin	03	Gray/Orange	(DATA)	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	(DATA)	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange	(DATA)	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray	(DATA)	Immobilizer	~
			Brake	C278	White	04 pin	04	Purple/White	(+)	At brake pedal	~

*Colors may vary but pin out is correct

TYPE 2 - WIRING DIAGRAM - 1 OF 1

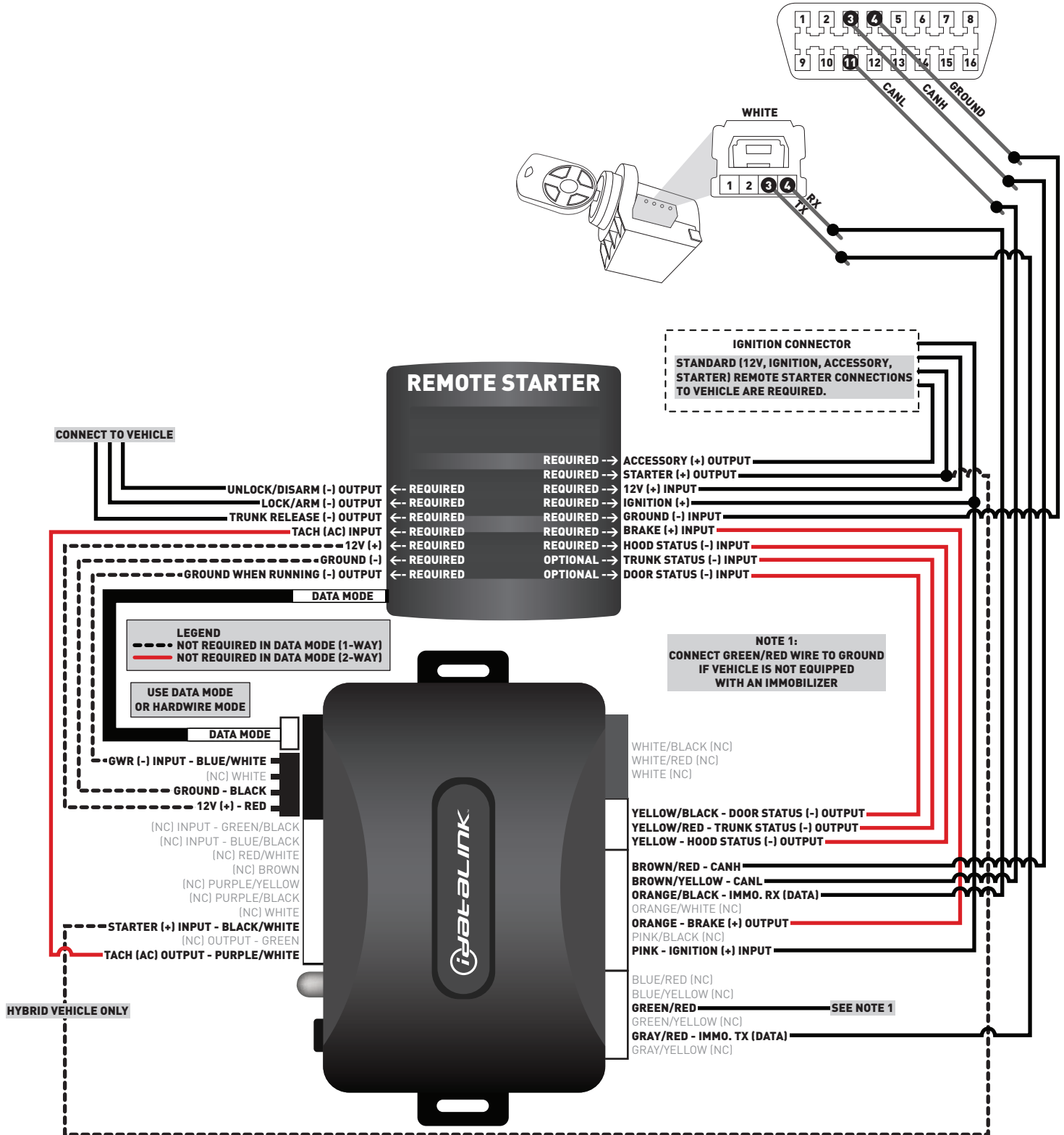


TYPE 3 - WIRE CROSS REFERENCE CHART - 1 OF 1

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
FORD	E-Series STD key AT	08-14	CanH	C251	Black	16 pin	03	Gray/Orange	[DATA]	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	[DATA]	OBDII connector	~
			TX	~	~	04 pin	03	Purple/Gray	[DATA]	Immobilizer	~
			RX	~	~	04 pin	04	Yellow/Orange	[DATA]	Immobilizer	~
	Expedition STD key AT	07-14	CanH	C251	Black	16 pin	03	Gray/Orange	[DATA]	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	[DATA]	OBDII connector	~
			TX	~	~	04 pin	03	Purple/Brown	[DATA]	Immobilizer	~
			RX	~	~	04 pin	04	Blue/Gray	[DATA]	Immobilizer	~
	F-150 STD key AT	09-10	CanH	C251	Black	16 pin	03	Gray/Orange	[DATA]	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	[DATA]	OBDII connector	~
			TX	~	~	04 pin	03	Purple/Gray*	[DATA]	Immobilizer	~
			RX	~	~	04 pin	04	Yellow/Orange*	[DATA]	Immobilizer	~
	F-Super Duty STD key AT	08-10	CanH	C251	Black	16 pin	03	Gray/Orange	[DATA]	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	[DATA]	OBDII connector	~
			TX	~	~	04 pin	03	Yellow/Orange*	[DATA]	Immobilizer	~
			RX	~	~	04 pin	04	Purple/Gray*	[DATA]	Immobilizer	~
LINCOLN	Navigator STD key AT	07-14	CanH	C251	Black	16 pin	03	Gray/Orange	[DATA]	OBDII connector	~
			CanL	C251	Black	16 pin	11	Purple/Orange	[DATA]	OBDII connector	~
			TX	~	~	04 pin	03	Purple/Brown	[DATA]	Immobilizer	~
			RX	~	~	04 pin	04	Blue/Gray	[DATA]	Immobilizer	~



*Colors may vary but pin out is correct

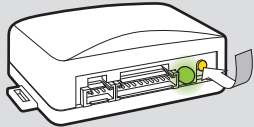
TYPE 3 - WIRING DIAGRAM - 1 OF 1



INSTALLATION MODE SELECTION

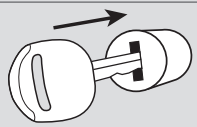
1  Press and release programming button to select installation mode.

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

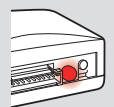
2  Press and hold programming button until LED turns solid GREEN to register selection.


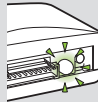
! After registration, follow Factory Reset Procedure to change installation mode and restart this procedure.

MODULE PROGRAMMING PROCEDURE - WITH ONE OEM KEY & KLON

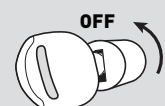
1  Insert key into ignition.

2  Turn key to ON position.

3  LED will turn solid RED.


4  If LED turns solid GREEN, proceed with step 13.
 If LED flashes GREEN, proceed with step 5.

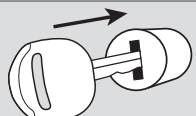
! If the LED begins to flash RED/GREEN, the key has an 80-bit encryption that is not covered by KLON.

5  Turn key to OFF position.

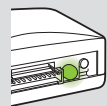
6  **WARNING:**
Disconnect power last.
Disconnect module from vehicle.

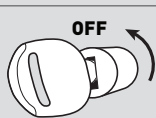
7  Connect module to computer and proceed with extended programming.

8  **WARNING:** Do not press module programming button.
Connect power first.
Connect module to vehicle.

9  Insert key into ignition.

10  Turn key to ON position.

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

12  Turn key to OFF position.

13 Module Programming Procedure completed.

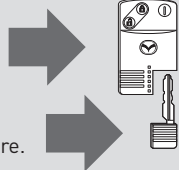
MODULE PROGRAMMING PROCEDURE - WITH TWO OEM KEYS

NOTE

I To complete this procedure, both OEM keys are required.

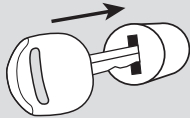


II Keep both OEM remotes at least 10 feet away from the vehicle.

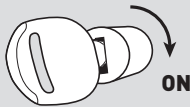


Use both valet keys for the module programming procedure.

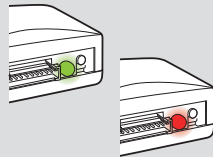
1 Insert key 1 into ignition.



2 Turn key 1 to ON position.

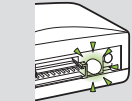


3 If LED turns solid GREEN, proceed with step 18.

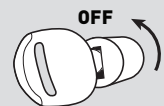


If LED turns solid RED, proceed with step 4.

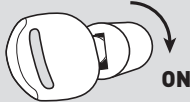
4 Wait, LED will flash GREEN. (This may take up to 10 seconds.)



5 Turn key 1 to OFF position.

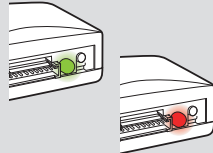


6 Turn key 1 to ON position.



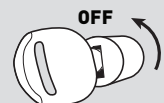
If the LED begins to flash RED, verify the RX and TX connections between the module and the vehicle.

7 If LED turns solid GREEN for 2 seconds, proceed with step 18.

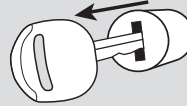


If LED turns solid RED, proceed with step 8 within 5 seconds, after LED turns OFF.

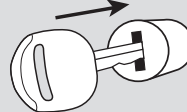
8 Turn key 1 to OFF position.



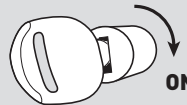
9 Remove key 1.



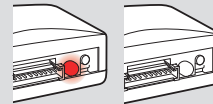
10 Insert key 2 into ignition.



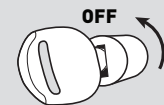
11 Turn key 2 to ON position.



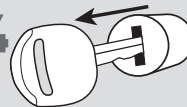
12 Wait, LED will turn solid RED then will turn OFF.



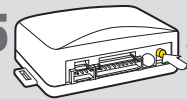
13 Turn key 2 to OFF position.



14 Remove key 2.



15 Press and release programming button.

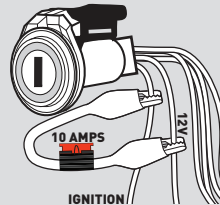


16 Remote start vehicle.



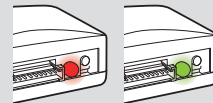
OR

Jump the ignition to 12volts.



If the LED begins to flash RED, you are using a cloned key or used the same key twice.

17 Wait, LED will turn solid RED then will turn solid GREEN.



18 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.