

Automotive Data Solutions Inc.

INSTALL GUIDE ADS-TB-FM3-EN

FM3

AVAILABLE FOR: ADS-TB

Rev. Date: May 17, 2017

Doc. No.: ##39472##

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

PLEASE VISIT WWW.IDATALINK.COM FOR COMPLETE PRODUCT DETAILS

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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	
FORD	C-Max STD key	13-15	2	•	
	Edge STD key	11-14	1	•	
	Escape STD key	13-16	2	•	
	Expedition STD key	15-16	1	•	
	Explorer STD key	11-15	1	•	
	F150 / F150 SVT Raptor STD key	11-14	1	•	
	F250 / Super Duty / Diesel STD key	11-16	1	•	
	F350 / Super Duty / Diesel STD key	11-16	1	•	
	Fiesta STD key	14-16	2	•	
	Flex STD key	13-15	1	•	
	Focus STD key	12-15	2	•	
	Taurus STD key	13-15	1	•	
	Transit STD key	15-16	1	•	
	Transit Connect STD key	14-15	2	•	
	LINCOLN	MKX STD key	11-15	1	•

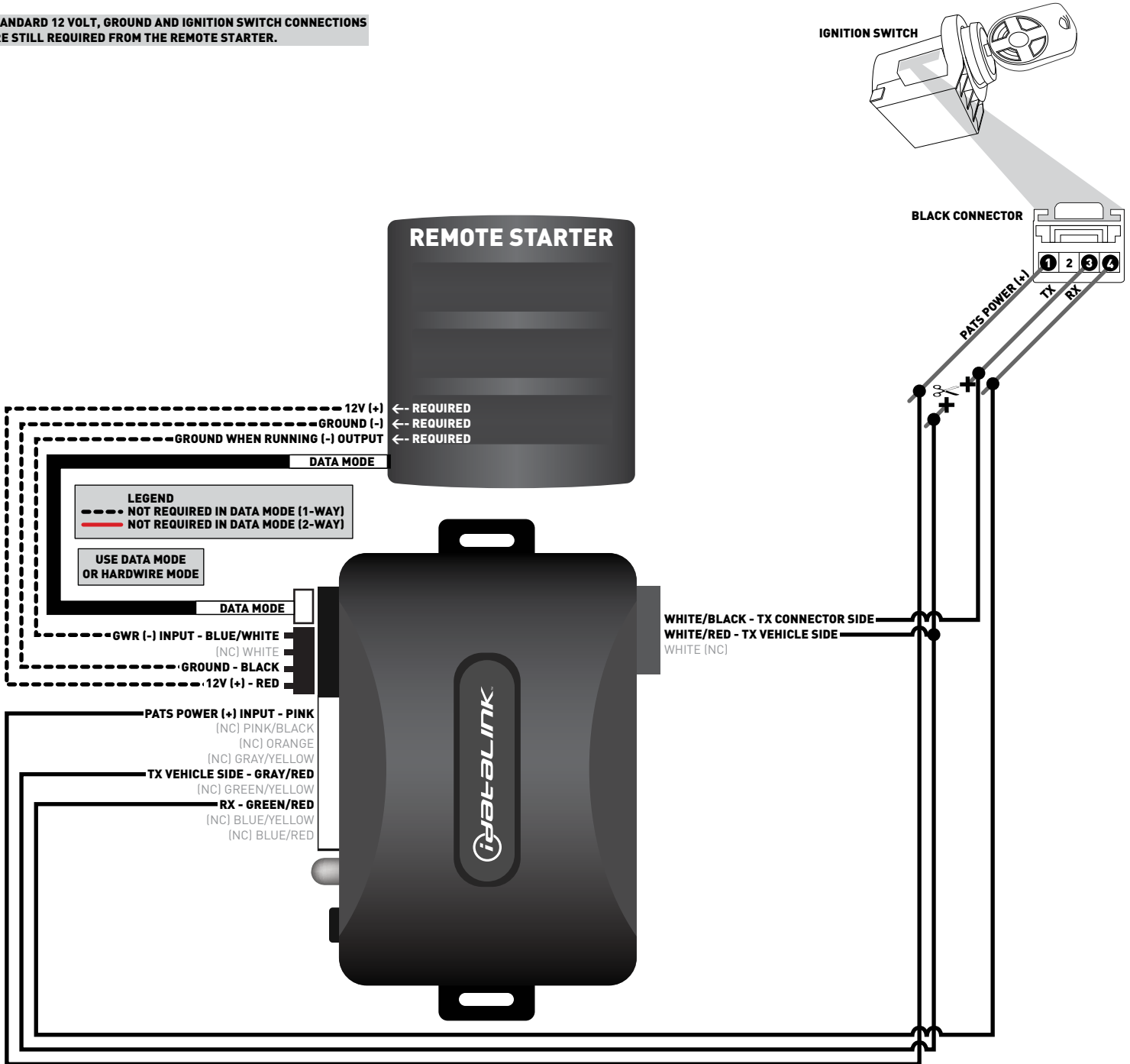
TYPE 1 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
FORD	Edge	11-14	Tx	C252	Black	4 pin	3	Yellow/Orange	(DATA)	PATS module, ignition switch	~
			Rx	C252	Black	4 pin	4	Purple/Gray	(DATA)	PATS module, ignition switch	~
			PATS power	C252	Black	4 pin	1	Purple/Orange	(+)	PATS module, ignition switch	~
			Ground	C252	Black	4 pin	2	Black	(-)	PATS module, ignition switch	~
	Expedition	15-16	Tx	C252	Black	4 pin	3	Purple/Brown	(DATA)	PATS module, ignition switch	~
			Rx	C252	Black	4 pin	4	Blue/Gray	(DATA)	PATS module, ignition switch	~
			PATS power	C252	Black	4 pin	1	Purple/Orange	(+)	PATS module, ignition switch	~
			Ground	C252	Black	4 pin	2	Black	(-)	PATS module, ignition switch	~
	Explorer	11-15	Tx	C252	Black	4 pin	3	Yellow/Orange	(DATA)	PATS module, ignition switch	~
			Rx	C252	Black	4 pin	4	Purple/Red or Purple/Gray*	(DATA)	PATS module, ignition switch	~
			PATS power	C252	Black	4 pin	1	Purple/Orange	(+)	PATS module, ignition switch	~
			Ground	C252	Black	4 pin	2	Black	(-)	PATS module, ignition switch	~
	F150 / F150 SVT Raptor	11-14	Tx	C252	Black	4 pin	3	Yellow/Orange*	(DATA)	PATS module, ignition switch	~
			Rx	C252	Black	4 pin	4	Purple/Gray*	(DATA)	PATS module, ignition switch	~
			PATS power	C252	Black	4 pin	1	Purple/Orange	(+)	PATS module, ignition switch	~
			Ground	C252	Black	4 pin	2	Black	(-)	PATS module, ignition switch	~
	F250 / Super Duty / Diesel	11-16	Tx	C252	Black	4 pin	3	Purple/Gray*	(DATA)	PATS module, ignition switch	~
			Rx	C252	Black	4 pin	4	Yellow/Orange*	(DATA)	PATS module, ignition switch	~
			PATS power	C252	Black	4 pin	1	Purple/Orange	(+)	PATS module, ignition switch	~
			Ground	C252	Black	4 pin	2	Black	(-)	PATS module, ignition switch	~
	F350 / Super Duty / Diesel	11-16	Tx	C252	Black	4 pin	3	Purple/Gray*	(DATA)	PATS module, ignition switch	~
			Rx	C252	Black	4 pin	4	Yellow/Orange*	(DATA)	PATS module, ignition switch	~
			PATS power	C252	Black	4 pin	1	Purple/Orange	(+)	PATS module, ignition switch	~
			Ground	C252	Black	4 pin	2	Black	(-)	PATS module, ignition switch	~
Flex	13-15	Tx	C252	Black	4 pin	3	Yellow	(DATA)	PATS module, ignition switch	~	
		Rx	C252	Black	4 pin	4	Purple	(DATA)	PATS module, ignition switch	~	
		PATS power	C252	Black	4 pin	1	Purple/Orange	(+)	PATS module, ignition switch	~	
		Ground	C252	Black	4 pin	2	Black/White	(-)	PATS module, ignition switch	~	
Taurus	13-15	Tx	C252	Black	4 pin	3	Yellow/Orange	(DATA)	PATS module, ignition switch	~	
		Rx	C252	Black	4 pin	4	Purple/Gray	(DATA)	PATS module, ignition switch	~	
		PATS power	C252	Black	4 pin	1	Purple/Orange	(+)	PATS module, ignition switch	~	
		Ground	C252	Black	4 pin	2	Black/White	(-)	PATS module, ignition switch	~	
Transit	15-16	Tx	C252	Black	4 pin	3	Yellow/Orange	(DATA)	PATS module, ignition switch	~	
		Rx	C252	Black	4 pin	4	Purple/Gray	(DATA)	PATS module, ignition switch	~	
		PATS power	C252	Black	4 pin	1	Yellow/Purple	(+)	PATS module, ignition switch	~	
		Ground	C252	Black	4 pin	2	Black	(-)	PATS module, ignition switch	~	
LINCOLN	MKX	11-15	Tx	C252	Black	4 pin	3	Yellow/Orange	(DATA)	PATS module, ignition switch	~
			Rx	C252	Black	4 pin	4	Purple/Gray	(DATA)	PATS module, ignition switch	~
			PATS power	C252	Black	4 pin	1	Purple/Orange	(+)	PATS module, ignition switch	~
			Ground	C252	Black	4 pin	2	Black	(-)	PATS module, ignition switch	~

*Wire color may vary, refer to pin-out.

TYPE 1 - WIRING DIAGRAM

STANDARD 12 VOLT, GROUND AND IGNITION SWITCH CONNECTIONS ARE STILL REQUIRED FROM THE REMOTE STARTER.



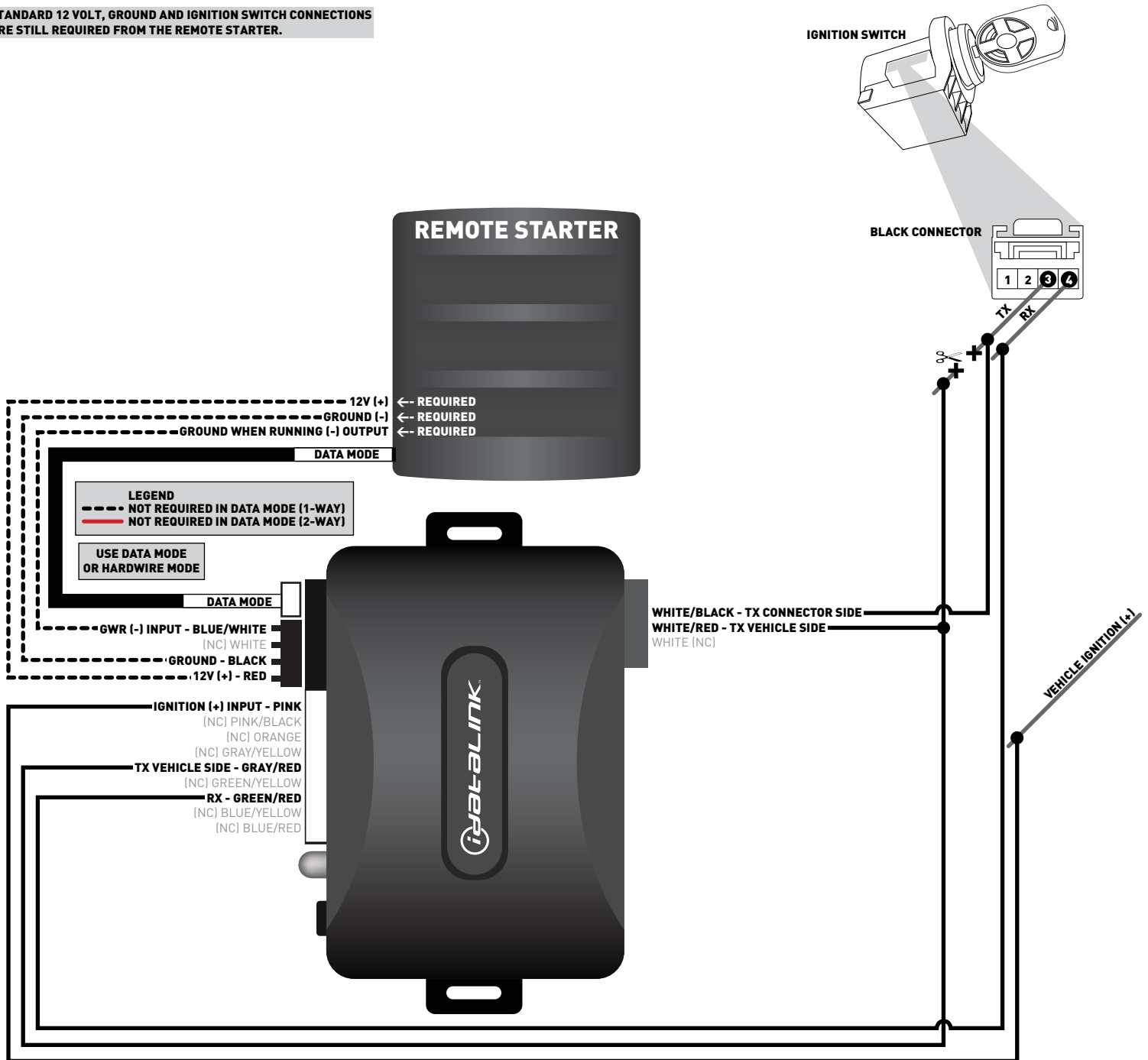
TYPE 2 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
FORD	C-Max	13-15	Tx	C252	Black	4 pin	3	Yellow/Orange*	(DATA)	PATS module, ignition switch	~
			Rx	C252	Black	4 pin	4	Purple/Gray*	(DATA)	PATS module, ignition switch	~
			PATS power	C252	Black	4 pin	1	Gray/Orange*	(+)	PATS module, ignition switch	~
			Ground	C252	Black	4 pin	2	Black*	(-)	PATS module, ignition switch	~
	Escape	13-16	Tx	C252	Black	4 pin	3	Yellow/Orange*	(DATA)	PATS module, ignition switch	~
			Rx	C252	Black	4 pin	4	Purple/Gray*	(DATA)	PATS module, ignition switch	~
			PATS power	C252	Black	4 pin	1	Gray/Orange*	(+)	PATS module, ignition switch	~
			Ground	C252	Black	4 pin	2	Black*	(-)	PATS module, ignition switch	~
	Fiesta	14-16	Tx	C252	Black	4 pin	3	Yellow*	(DATA)	PATS module, ignition switch	~
			Rx	C252	Black	4 pin	4	Gray*	(DATA)	PATS module, ignition switch	~
			PATS power	C252	Black	4 pin	1	Blue/White*	(+)	PATS module, ignition switch	~
			Ground	C252	Black	4 pin	2	Black/White*	(-)	PATS module, ignition switch	~
	Focus	12-15	Tx	C252	Black	4 pin	3	Yellow/Orange*	(DATA)	PATS module, ignition switch	~
			Rx	C252	Black	4 pin	4	Purple/Gray*	(DATA)	PATS module, ignition switch	~
			PATS power	C252	Black	4 pin	1	Gray/Orange*	(+)	PATS module, ignition switch	~
			Ground	C252	Black	4 pin	2	Black*	(-)	PATS module, ignition switch	~
Transit Connect	14-15	Tx	C252	Black	4 pin	3	Yellow/Orange*	(DATA)	PATS module, ignition switch	~	
		Rx	C252	Black	4 pin	4	Purple/Gray*	(DATA)	PATS module, ignition switch	~	
		PATS power	C252	Black	4 pin	1	Gray/Orange*	(+)	PATS module, ignition switch	~	
		Ground	C252	Black	4 pin	2	Black*	(-)	PATS module, ignition switch	~	

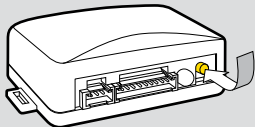
*Wire color may vary, refer to pin-out.



TYPE 2 - WIRING DIAGRAM

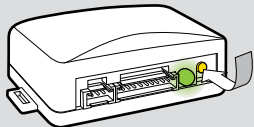
STANDARD 12 VOLT, GROUND AND IGNITION SWITCH CONNECTIONS ARE STILL REQUIRED FROM THE REMOTE STARTER.



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

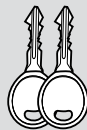
2  Press and hold programming button until LED turns solid GREEN to register selection.

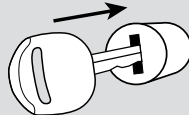
! After registration, follow Factory Reset Procedure to change installation mode and restart this procedure.

TYPE 1 - MODULE PROGRAMMING PROCEDURE - 1 OF 2

NOTE

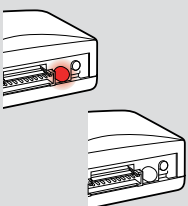
1 To complete this procedure, both OEM keys are required.



1  Insert key 1 into ignition.

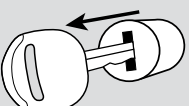
2  Turn key 1 to ON position.

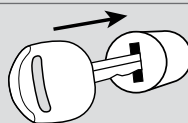
! If the module's LED begins to flash RED, verify the RX and TX connections between the module and the vehicle.

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

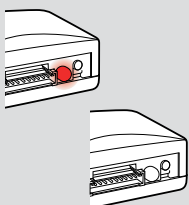
! If the module's LED turns solid GREEN for 2 seconds, the Module Programming Procedure is completed.

4  Turn key 1 to OFF position.

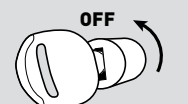
5  Remove key 1.

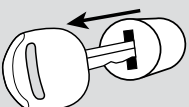
6  Insert key 2 into ignition.

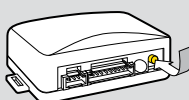
7  Turn key 2 to ON position.

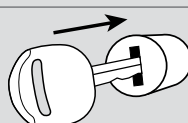
8  Wait, LED will turn solid RED then will turn OFF.

↓ **TIME RESTRICTION COMING UP !**

9  Turn key 2 to OFF position.

10  **TIME RESTRICTION**
Complete steps 10 to 13 within 5 SECONDS.
Remove key 2.

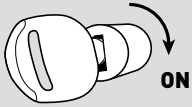
11  Press and release programming button.

12  Insert key 2 into ignition.

↓ **IMPORTANT: READ NEXT PAGE !**

TYPE 1 - MODULE PROGRAMMING PROCEDURE - 2 OF 2

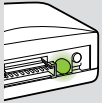
13



Turn key 2 to ON position.

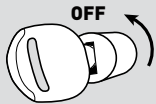
Do not start vehicle.

14



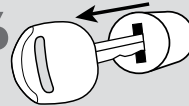
Wait, LED will turn solid GREEN for **2 seconds**.

15



Turn key 2 to OFF position.

16





Remove key 2.

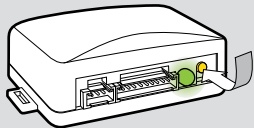
17

Module Programming Procedure completed.

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

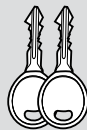
2  Press and hold programming button until LED turns solid GREEN to register selection.

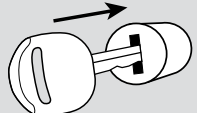
! After registration, follow Factory Reset Procedure to change installation mode and restart this procedure.

TYPE 2 - MODULE PROGRAMMING PROCEDURE - 1 OF 2

NOTE

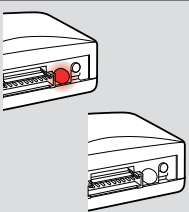
1 To complete this procedure, both OEM keys are required.



1  Insert key 1 into ignition.

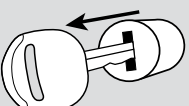
2  Turn key 1 to ON position.

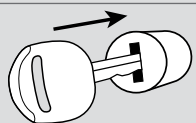
! If the module's LED begins to flash RED, verify the RX and TX connections between the module and the vehicle.

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

! If the module's LED turns solid GREEN for 2 seconds, the Module Programming Procedure is completed.

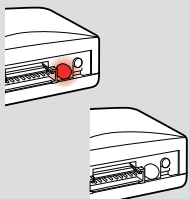
4  Turn key 1 to OFF position.

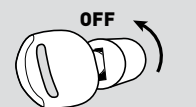
5  Remove key 1.

6  Insert key 2 into ignition.

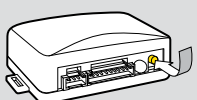
7  Turn key 2 to ON position.

↓ **TIME RESTRICTION COMING UP !**

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

9  Turn key 2 to OFF position.

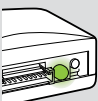
TIME RESTRICTION
Complete steps 9 to 11 within 5 SECONDS.

10  Press and release programming button.

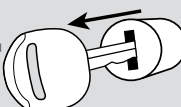
↓ **IMPORTANT: READ NEXT PAGE !**

TYPE 2 - MODULE PROGRAMMING PROCEDURE - 2 OF 2

11  Turn key 2 to ON position.
Do not start vehicle.

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

13  Turn key 2 to OFF position.

14  Remove key 2.

15 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.