Automotive Data Solutions Inc.

INSTALL GUIDE

COM-AL(RS)-TL2-EN

TL2

AVAILABLE FOR: ADS-AL CA

Rev. Date: February 13, 2013
Doc. No.: ##10870##

VERSION FRANÇAISE DISPONIBLE EN LIGNE AU **WWW.IDATALINK.COM**
PLEASE VISIT **WWW.IDATALINK.COM/SUPPORT** FOR COMPLETE PRODUCT DETAILS

TOYOTA LEXUS

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

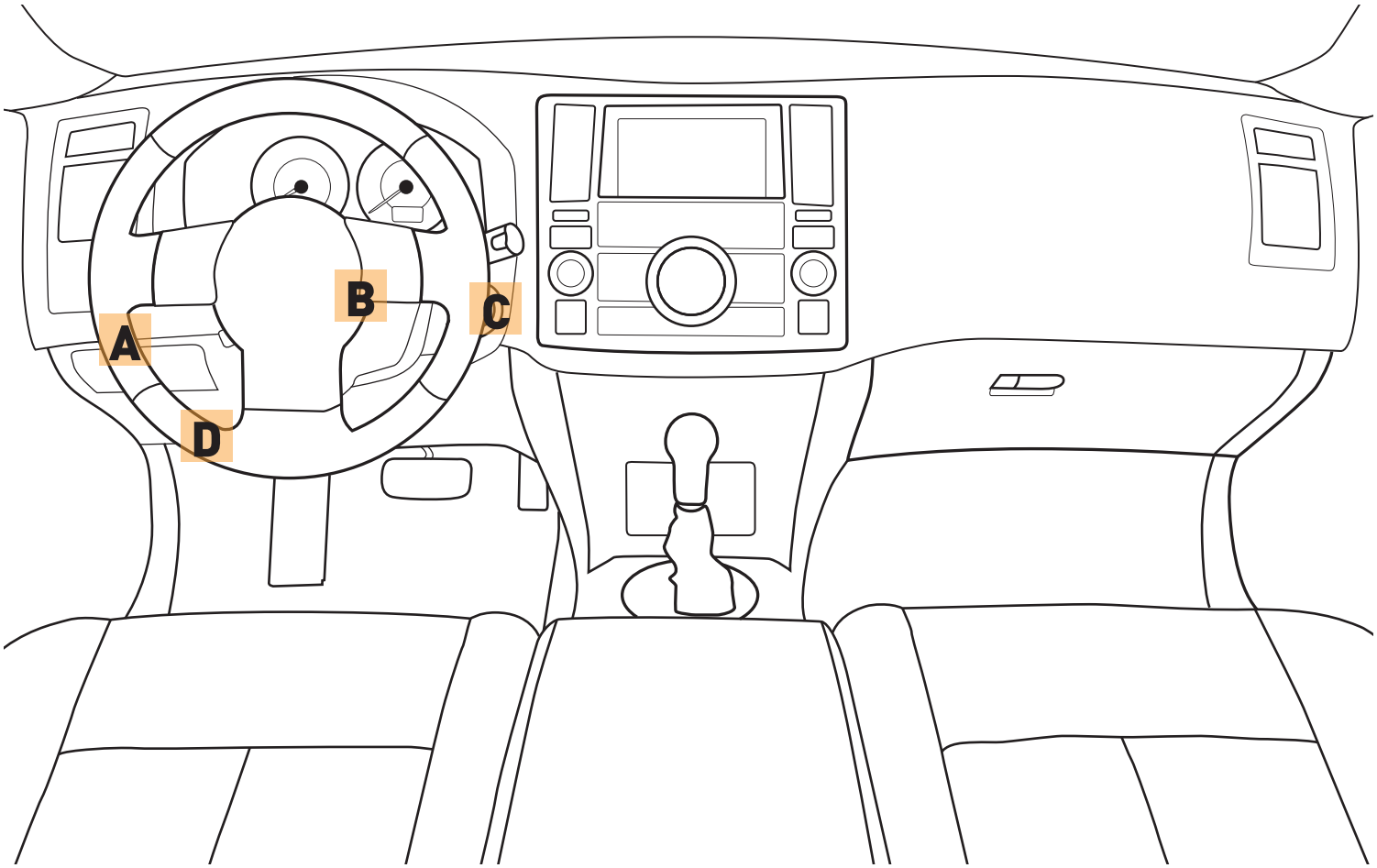
NOTE

1 Keyless and smart-key systems will remain functional during remote start.

MAKE	MODEL	YEAR	INSTALL TYPE	FEATURES															
				DATA IMMOBILIZER BYPASS	PUSH TO START CTRL	ARM OEM ALARM	DISARM OEM ALARM	DOOR LOCK	DOOR UNLOCK	POWER SLIDING DOOR (L)	POWER SLIDING DOOR (R)	TRUNK/HATCH RELEASE	POWER LIFTGATE	TACHOMETER OUTPUT	BRAKE PEDAL STAT OUTPUT	E-BRAKE OUTPUT	DOOR STAT OUTPUT	TRUNK STAT OUTPUT	HOOD STAT OUTPUT*
LEXUS	CT200h PTS	11-13	3	•	•	•	•	•	•				•	•	•	•	•	•	•
	GX460 PTS	10-13	2	•	•	•	•	•	•				•	•	•	•	•	•	•
	HS250h PTS	10-12	3	•	•	•	•	•	•			•		•	•	•	•	•	•
	RX350 PTS	10-13	2	•	•	•	•	•	•				•	•	•	•	•	•	•
	RX450h PTS	10-13	2	•	•	•	•	•	•				•	•	•	•	•	•	•
TOYOTA	4Runner PTS	10-13	2	•	•	•	•	•	•				•	•	•	•	•	•	•
	Prius PTS	10-13	3	•	•	•	•	•	•				•	•	•	•	•	•	•
	Prius V PTS	12-13	3	•	•	•	•	•	•				•	•	•	•	•	•	•
	Sienna PTS	11-13	2	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•
	Venza PTS	09-13	1	•	•	•	•	•	•				•	•	•	•	•	•	•

* Available only if vehicle is equipped with factory hood switch.

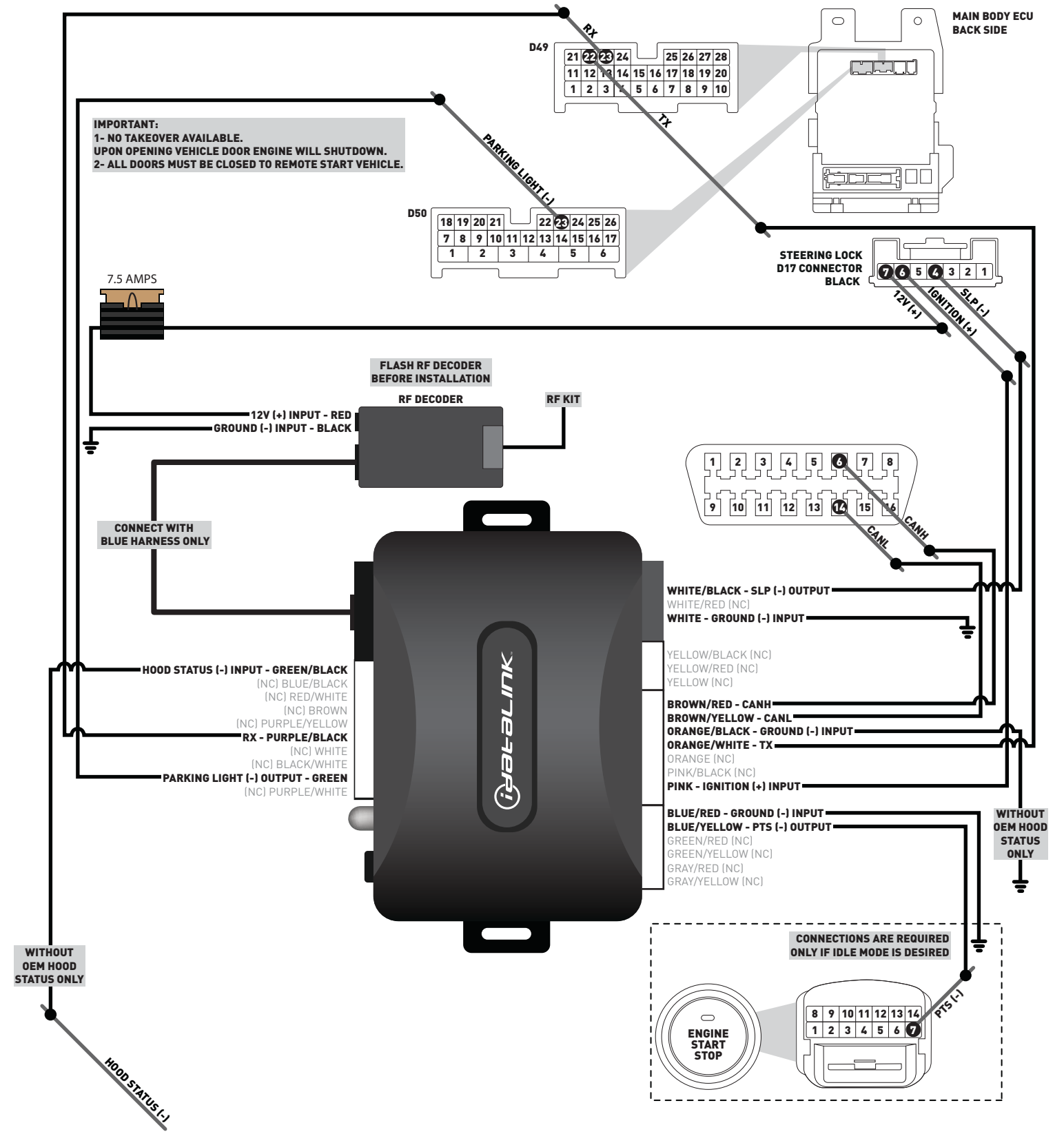
COMPONENT LOCATOR



TYPE 1 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
TOYOTA	Venza PTS	09-13	CanH	D1	~	16 pin	06	Yellow	(DATA)	OBDII	D
			CanL	D1	~	16 pin	14	White	(DATA)	OBDII	D
			12V	D17	~	07 pin	07	Pink	(+)	Black connector at steering lock	B
			Ignition	D17	~	07 pin	06	LtGreen	(+)	Black connector at steering lock	B
			SLP	D17	~	07 pin	04	Violet	(-)	Black connector at steering lock	B
			TX	D49	~	28 pin	22	Blue	(DATA)	Main body ECU, back side	A
			RX	D49	~	28 pin	23	Black	(DATA)	Main body ECU, back side	A
			Parking	D50	~	26 pin	23	Red	(-)	Main body ECU, back side	A
			Push	D13	~	14 pin	07	Blue	(-)	Push to start button	C

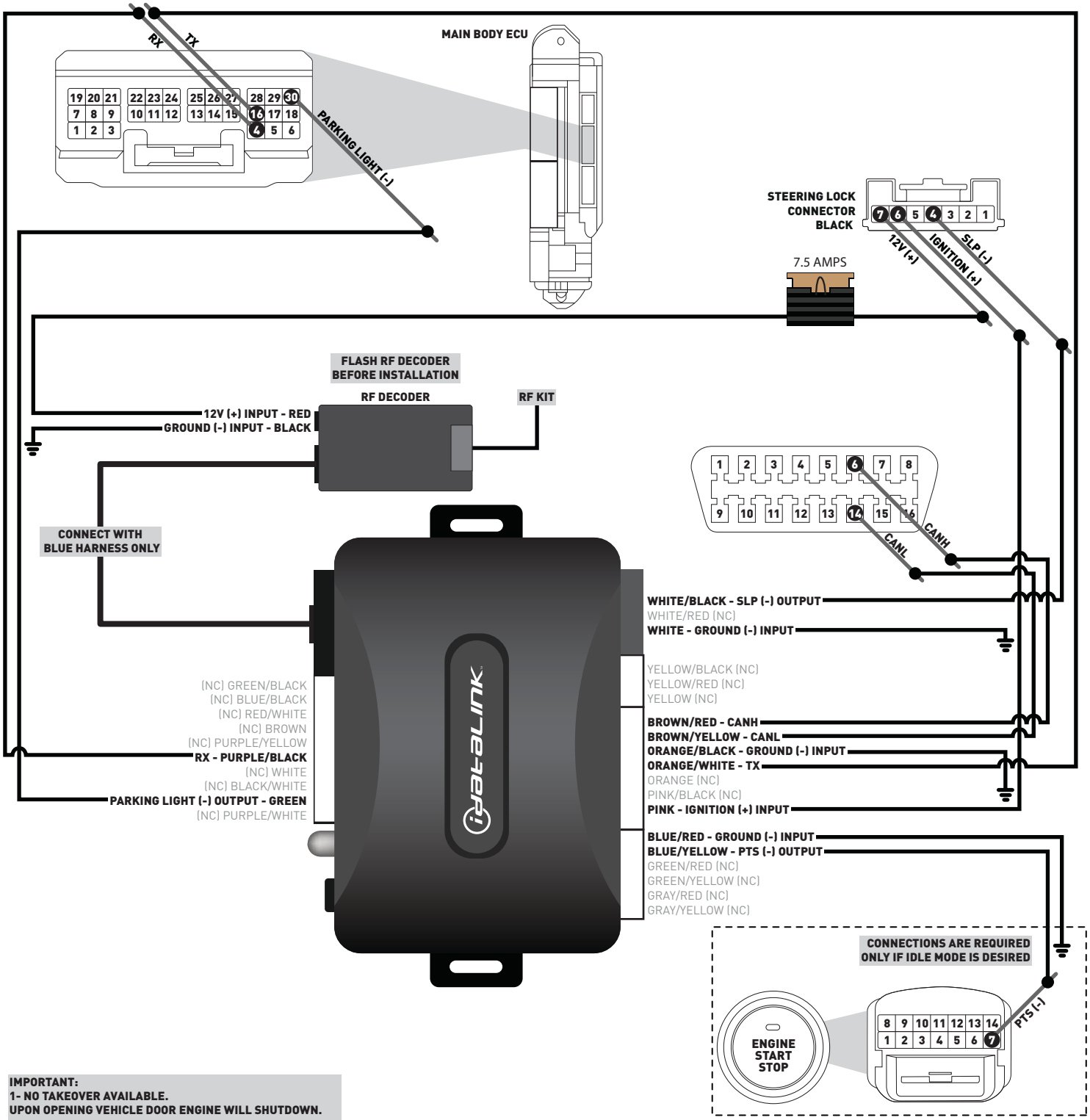
TYPE 1 - WIRING DIAGRAM



TYPE 2 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	LOCATION	COMPONENT LOCATOR
LEXUS	GX460 PTS	10-13	CanH	G37	White	16 pin	06	Red	(DATA)	OBDII	D
			CanL	G37	White	16 pin	14	White	(DATA)	OBDII	D
			12V	G23	Black	07 pin	07	Green	(+)	Steering lock	B
			Ignition	G23	Black	07 pin	06	White	(+)	Steering lock	B
			SLP	G23	Black	07 pin	04	LtBlue	(-)	Steering lock	B
			TX	G47	White	30 pin	16	Green	(DATA)	Main body ECU	A
			RX	G47	White	30 pin	04	Red	(DATA)	Main body ECU	A
			Parking Light	G47	White	30 pin	30	White	(-)	Main body ECU	A
			Push	G24	Black	14 pin	07	LtGreen	(-)	Push to start button	C
	RX350 PTS	10-13	CanH	F17	~	16 pin	06	Violet	(DATA)	OBDII	D
			CanL	F17	~	16 pin	14	Red	(DATA)	OBDII	D
			12V	F37	Black	07 pin	07	Blue	(+)	Steering lock	B
			Ignition	F37	Black	07 pin	06	Black	(+)	Steering lock	B
			SLP	F37	Black	07 pin	04	Green	(-)	Steering lock	B
			TX	F14	~	30 pin	16	LtGreen	(DATA)	Main body ECU	A
			RX	F14	~	30 pin	04	Pink	(DATA)	Main body ECU	A
			Parking Light	F14	~	30 pin	30	Violet	(-)	Main body ECU	A
			Push	F22	~	14 pin	07	LtGreen	(-)	Push to start button	C
	RX450h PTS	10-13	CanH	F17	~	16 pin	06	Violet	(DATA)	OBDII	D
			CanL	F17	~	16 pin	14	Red	(DATA)	OBDII	D
			12V	F37	Black	07 pin	07	Blue	(+)	Steering lock	B
			Ignition	F37	Black	07 pin	06	Black	(+)	Steering lock	B
			SLP	F37	Black	07 pin	04	Green	(-)	Steering lock	B
			TX	F14	~	30 pin	16	LtGreen	(DATA)	Main body ECU	A
			RX	F14	~	30 pin	04	Pink	(DATA)	Main body ECU	A
			Parking Light	F14	~	30 pin	30	Violet	(-)	Main body ECU	A
			Push	F22	~	14 pin	07	LtGreen	(-)	Push to start button	C
TOYOTA	4Runner PTS	10-13	CanH	F13	~	16 pin	06	Violet	(DATA)	OBDII	D
			CanL	F13	~	16 pin	14	White	(DATA)	OBDII	D
			12V	F68	Black	07 pin	07	Gray	(+)	Steering lock	B
			Ignition	F68	Black	07 pin	06	White	(+)	Steering lock	B
			SLP	F68	Black	07 pin	04	LtBlue	(-)	Steering lock	B
			TX	F10	~	30 pin	16	White	(DATA)	Main body ECU	A
			RX	F10	~	30 pin	04	Gray	(DATA)	Main body ECU	A
			Parking Light	F10	~	30 pin	30	Red	(-)	Main body ECU	A
			Push	F71	~	14 pin	07	LtGreen	(-)	Push to start button	C
	Sienna PTS	11-13	CanH	D16	~	16 pin	06	Red	(DATA)	OBDII	D
			CanL	D16	~	16 pin	14	White	(DATA)	OBDII	D
			12V	D29	Black	07 pin	07	Red	(+)	Steering lock	B
			Ignition	D29	Black	07 pin	06	Black	(+)	Steering lock	B
			SLP	D29	Black	07 pin	04	Green	(-)	Steering lock	B
			TX	D13	~	30 pin	16	Blue	(DATA)	Main body ECU	A
			RX	D13	~	30 pin	04	Black	(DATA)	Main body ECU	A
			Parking Light	D13	~	30 pin	30	Yellow	(-)	Main body ECU	A
			Push	D33	~	14 pin	07	LtBlue	(-)	Push to start button	C

TYPE 2 - WIRING DIAGRAM

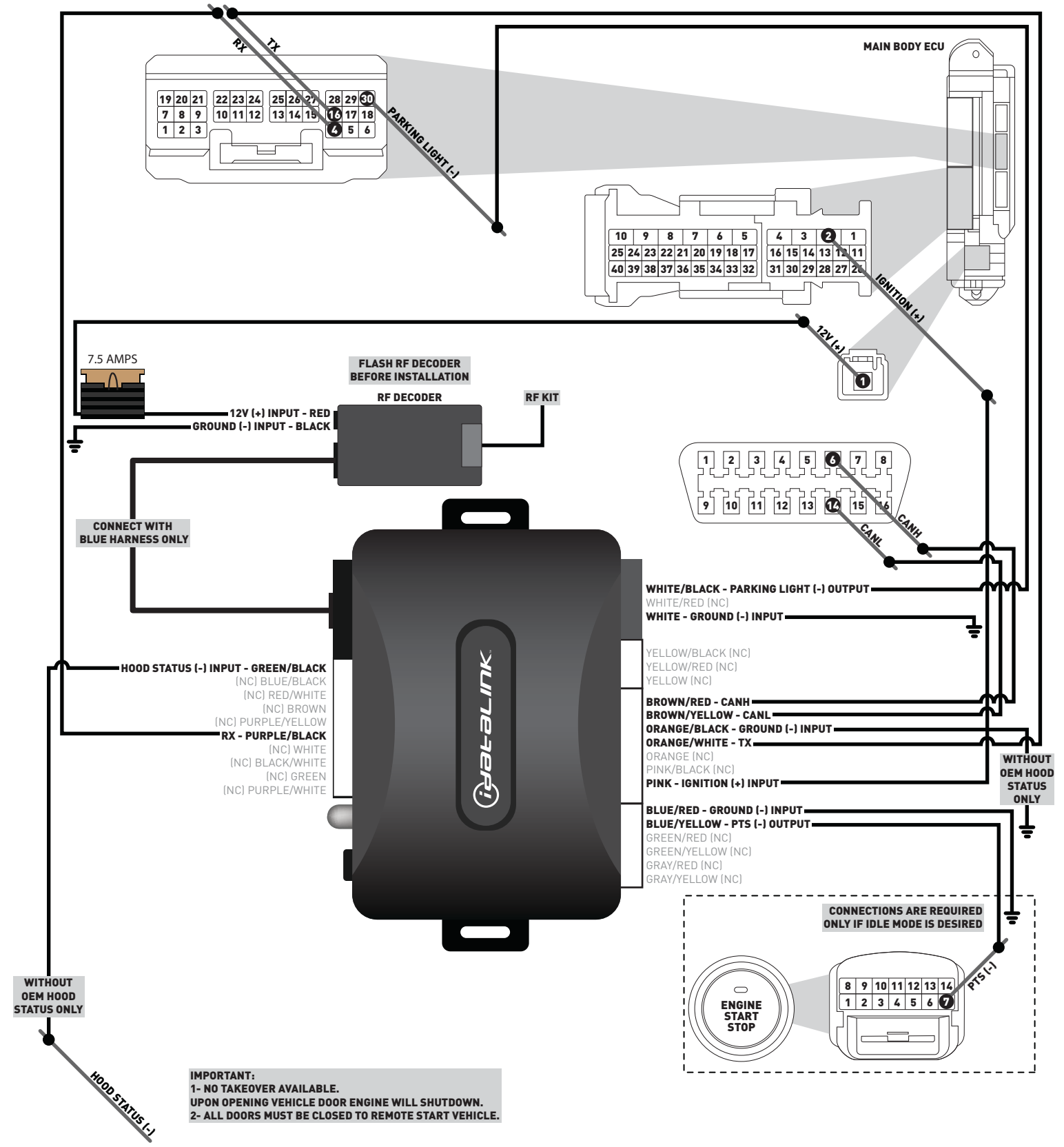


IMPORTANT:
1- NO TAKEOVER AVAILABLE.
UPON OPENING VEHICLE DOOR ENGINE WILL SHUTDOWN.
2- ALL DOORS MUST BE CLOSED TO REMOTE START VEHICLE.

TYPE 3 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	LOCATION	COMPONENT LOCATOR
LEXUS	CT200h PTS	11-13	CanH	~	~	16 pin	06	Red	(DATA)	OBDII	D
			CanL	~	~	16 pin	14	White	(DATA)	OBDII	D
			12V	~	~	01 pin	01	White	(+)	Main body ECU	A
			Ignition	~	~	40 pin	02	Red	(+)	Main body ECU	A
			TX	~	~	30 pin	16	LtBlue	(DATA)	Main body ECU	A
			RX	~	~	30 pin	04	Yellow	(DATA)	Main body ECU	A
			Parking Light	~	~	30 pin	30	Yellow	(-)	Main body ECU	A
			Push	~	~	14 pin	07	Black	(-)	Push to start button	C
	HS250h PTS	10-12	CanH	F11	~	16 pin	06	Green	(DATA)	OBDII	D
			CanL	F11	~	16 pin	14	Black	(DATA)	OBDII	D
			12V	2E	~	01 pin	01	White	(+)	Main body ECU	A
			Ignition	2C	~	40 pin	02	White	(+)	Main body ECU	A
			TX	F9	~	30 pin	16	Blue	(DATA)	Main body ECU	A
			RX	F9	~	30 pin	04	Yellow	(DATA)	Main body ECU	A
			Parking Light	F9	~	30 pin	30	White/Black	(-)	Main body ECU	A
			Push	F2	~	14 pin	07	Blue	(-)	Push to start button	C
TOYOTA	Prius PTS	10-13	CanH	L61	~	16 pin	06	White	(DATA)	OBDII	D
			CanL	L61	~	16 pin	14	Yellow	(DATA)	OBDII	D
			12V	2E	~	01 pin	01	White	(+)	Main body ECU	A
			Ignition	2C	~	40 pin	02	Red	(+)	Main body ECU	A
			TX	L7	~	30 pin	16	Green	(DATA)	Main body ECU	A
			RX	L7	~	30 pin	04	Violet	(DATA)	Main body ECU	A
			Parking Light	L7	~	30 pin	30	Yellow	(-)	Main body ECU	A
			Push	L43	~	14 pin	07	Black	(-)	Push to start button	C
	Prius V PTS	12-13	CanH	L61	~	16 pin	06	Black	(DATA)	OBDII	D
			CanL	L61	~	16 pin	14	White	(DATA)	OBDII	D
			12V	2E	~	01 pin	01	White	(+)	Main body ECU	A
			Ignition	2C	~	40 pin	02	Black	(+)	Main body ECU	A
			TX	L7	~	30 pin	16	Green	(DATA)	Main body ECU	A
			RX	L7	~	30 pin	04	Violet	(DATA)	Main body ECU	A
			Parking Light	L7	~	30 pin	30	Yellow	(-)	Main body ECU	A
			Push	L43	~	14 pin	07	Black	(-)	Push to start button	C

TYPE 3 - WIRING DIAGRAM



MODULE PROGRAMMING PROCEDURE

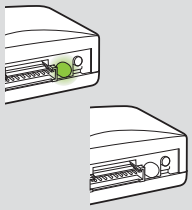
NOTE

- Between each step, LED will turn solid RED, this is the default standby mode.

1

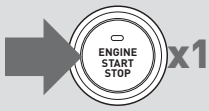
Push start button twice [2x] to ON position.

2



Wait, LED will turn solid GREEN then will turn OFF.

3



Push start button once [1x] to OFF position.

4

Module Programming Procedure completed.

VALET MODE PROGRAMMING PROCEDURE

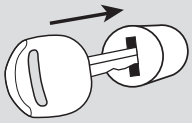
NOTE

I In Valet Mode, the Remote starter is not functional. Keyless entry, Lock and Unlock will remain functional.

II See RF kit user manual for alternate valet mode programming.

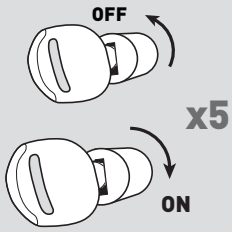
TIME RESTRICTION COMING UP !

1



Insert key into ignition.

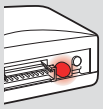
2



TIME RESTRICTION
Complete this step within 7 SECONDS.

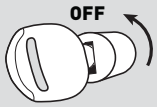
Turn key to OFF position then to ON position five times [5x] rapidly.

3



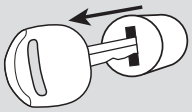
Wait, LED will turn solid RED for **2 seconds**.

4



Turn key to OFF position.

5



Remove key.

6

Valet Mode Programming Procedure completed.

! To exit valet mode: repeat steps 1 to 6.

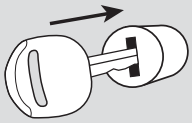
AFTERMARKET REMOTE PROGRAMMING PROCEDURE

NOTE

I WARNING: Program aftermarket remotes before usage.
A maximum of four [4x] aftermarket remotes per system.

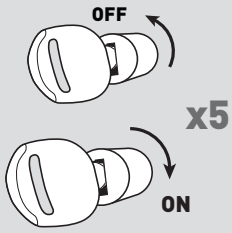
TIME RESTRICTION COMING UP !

1



Insert key into ignition.

2



TIME RESTRICTION
Complete this step within 7 SECONDS.

Turn key to OFF position then to ON position five times [5x] rapidly.

TIME RESTRICTION COMING UP !

3

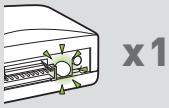
LED will turn solid RED.

4

TIME RESTRICTION
Within 2 SECONDS from previous step:

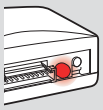
Press once [1x] on LOCK button of aftermarket remote.

5



LED will flash GREEN once [1x].

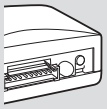
6



LED will turn solid RED.

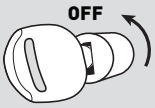
! To program additional remotes: repeat steps 4 to 6 using each additional remote.

7



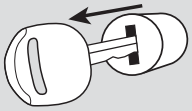
Wait, LED will turn OFF.

8



Turn key to OFF position.

9



Remove key.

10

Aftermarket Remote Programming Procedure completed.

MODULE NAVIGATION PROCEDURE

NOTE

I It is mandatory to exit the Module Navigation at the end of this procedure. Failure to exit the Module Navigation will drain vehicle battery.

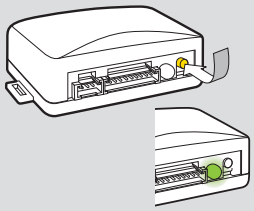
II Use the Module Navigation Chart on the next page.

III Module must be programmed to the vehicle.

IV Set ignition to OFF position.

! To exit the Module Navigation at any time:
Follow step 8.

1

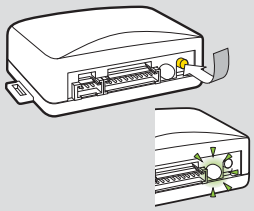


To access the **MENUS**:

Press and hold programming button until LED turns solid GREEN.

Release programming button.

2

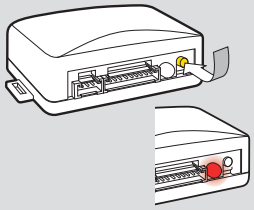


In the **MENUS**:

Press the programming button as many times as the menu number indicates.

LED will flash GREEN an equal amount of times continuously.

3

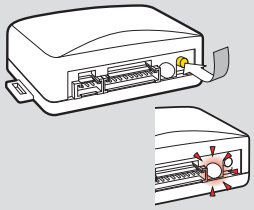


To access the **OPTIONS**:

Press and hold programming button until LED turns solid RED.

Release programming button.

4

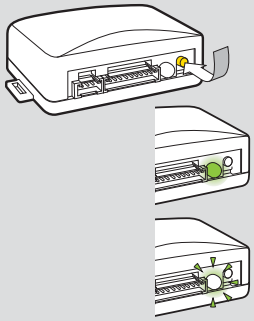


In the **OPTIONS**:

Press the programming button as many times as the option number indicates.

LED will flash RED an equal amount of times continuously.

5



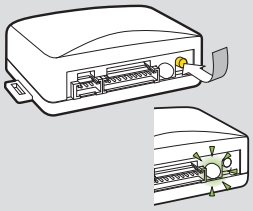
To access the **SETTINGS**:

Press and hold programming button until LED turns solid GREEN.

Release programming button.

LED will flash GREEN as many times as the current (or default) setting number, continuously.

6



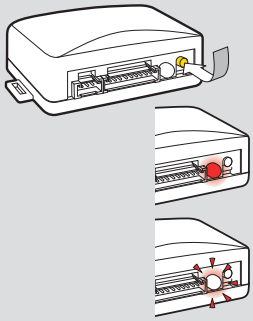
In the **SETTINGS**:

Press the programming button as many times as neccesary to access your setting.

LED will flash GREEN an equal amount of times continuously.

! To return to the **MENUS**: exit the Module Navigation and redo the Module Navigation Procedure.

7



To save and return to the **OPTIONS**:

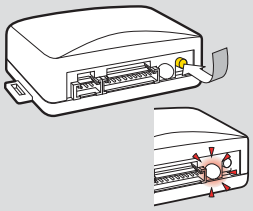
Press and hold programming button until LED turns solid RED.

Release programming button.

LED will flash RED as many times as the current option number continuously.

Configure every other setting and proceed to step 8.

8



MANDATORY:
EXIT MODULE NAVIGATION

Press and hold programming button for 7 seconds.

LED will flash RED rapidly.

Release programming button.

LED will turn OFF.

9

Module navigation completed.

! Failure to exit the Module Navigation will drain vehicle battery.

MODULE NAVIGATION CHART

NOTE

I Default settings are listed in bold.

II Make sure the option is covered on the vehicle before attempting to change the setting.

MENUS		OPTIONS		SETTINGS	
1	CONFIGURATION	1	DISARM/UNLOCK BEFORE START	1	**OFF**
				2	ON
		2	RELOCK AFTER START	1	**OFF**
				2	ON
		3	RELOCK AFTER SHUTDOWN	1	**OFF**
				2	ON
		4	FORCE UNLOCK ALL ON FIRST PRESS	1	**OFF**
				2	ON
		5	N/A	1	N/A
		6	N/A	1	N/A
		7	FACTORY KEYLESS RS SEQUENCE	1	DISABLE
				2	N/A
				3	LOCK + UNLOCK + LOCK
				4	**LOCK + LOCK + LOCK**
		8	MODULE RUN TIME	1	03 MIN
				2	05 MIN
				3	10 MIN
				4	15 MIN
				5	25 MIN
				6	30 MIN
				7	35 MIN
				8	**15 MIN**
		9	WAIT TO START DELAY	1	**02 SEC**
				2	05 SEC
				3	08 SEC
				4	10 SEC
				5	15 SEC
				6	20 SEC
				7	25 SEC
				8	30 SEC
		10	N/A	1	N/A
		11	N/A	1	N/A
		12	N/A	1	N/A
2	N/A				
3	N/A				
4	Technical Support Only				
5	Technical Support Only				
6	Technical Support Only				
7	Technical Support Only				

*Vehicle will shudown when a door is opened.

REMOTE STARTER ERROR CODES

NOTE

I WARNING: The following applies only when the parking lights are connected and supported by the system.

II After a remote starter failure, the parking lights will flash three [3x] times, then will flash [X] number times to indicate an error code. See table.

[X] NUMBER OF PARKING LIGHT FLASHES	REMOTE STARTER ERROR CODES
1	Engine running.
2	Key in ignition at ON position.
3	N/A
4	Trunk is open.
5	Foot brake is ON.
6	Hood is open.
7	N/A
8	Tach failure.
9	N/A
10	System is in Valet Mode.

REMOTE STARTER SHUTDOWN ERROR CODES (ON QUERY ONLY)

NOTE

I WARNING: The following applies only when the parking lights are connected and supported by the system.

II If the engine shuts down after a remote starter sequence:

Press and hold the Trunk button and the Start button at the same time for 2.5 seconds when using a 1-WAY remote.
OR
Press once [1x] on button "4" when using a 2-WAY remote.

The parking lights will flash four [4x] times, then will flash [Y] number times to indicate an error code.
See table.

[Y] NUMBER OF PARKING LIGHT FLASHES	REMOTE STARTER SHUTDOWN ERROR CODES
1	Engine tach signal is lost.
2	N/A
3	Foot brake is ON.
4	Hood is open.
5	Engine RPM limiter is ON.
6	Glow plug timeout error.
7	Vehicle is moving (VSS).
8	Check engine warning light is ON.
9	Low fuel warning light is ON.

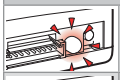
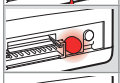
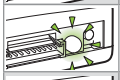
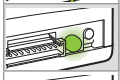
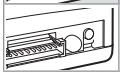
IDENTIFY VEHICLE YEAR

1 Locate the Vehicle Identification Number (VIN) and identify the 10th character.

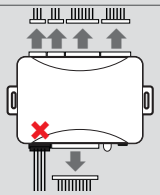
2 Match the VIN's 10th character to its corresponding year.

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

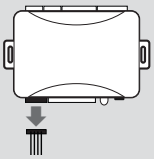
MODULE DIAGNOSTICS

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

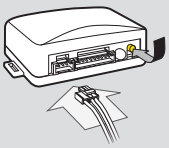
FACTORY RESET PROCEDURE

1 

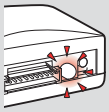
DISCONNECT all connectors from module **EXCEPT** the black 4-PIN standard or optional data connector.

2 

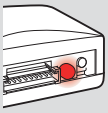
DISCONNECT black 4-PIN standard or optional data connector.

3 

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

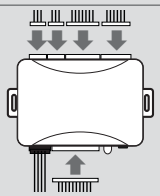
4 

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.