

Automotive Data Solutions Inc.

# INSTALL GUIDE ADS-TBSL-TI-EN

# TI

**AVAILABLE FOR: ADS-TBSL TI**

*Rev. Date: March 04, 2013*

*Doc. No.: ##11071##*

VERSION FRANÇAISE DISPONIBLE EN LIGNE AU [WWW.IDATALINK.COM](http://WWW.IDATALINK.COM)

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mazda

LINCOLN

MERCURY



TOYOTA LEXUS SCION PONTIAC

**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.

## TABLE OF CONTENTS - READ ENTIRE VEHICLE SECTION - 1 OF 1

MAKE	MODEL	YEAR	SECTION	MAKE	MODEL	YEAR	SECTION	MAKE	MODEL	YEAR	SECTION	MAKE	MODEL	YEAR	SECTION
FORD	Contour	98-00	A	LEXUS	ES 300	98-03	B	LINCOLN	Town Car	98-02	A	TOYOTA	Camry	98-02	B
	Crown Victoria	98-02	A		ES 330	04-06	B		Town Car	03-11	A		Camry	03-04	B
	Crown Victoria	03-09	A		ES 350	07-08	B		Zephyr	06	A		Camry	05-06	B
	E-Series	08-13	A		GS 300	06	B	MAZDA	2	11-13	A		Camry	07-10	B
	Edge	07-10	A		GS 300	98-05	B		3	04-09	A		Camry Hybrid	07-10	B
	Escape	01-12	A		GS 350	07-08	B		3 w/o smartkey	10-13	A		Corolla	05-08	B
	Escape Hybrid	05-12	A		GS 400	98-00	B		5	06-13	A		Corolla	09-10	B
	Excursion	00-05	A		GS 430	01-05	B		6	03-08	A		FJ Cruiser	07-09	B
	Expedition	99-01	A		GS 430	06-07	B		6 w/o smartkey	09-13	A		Hiace	06-09	B
	Expedition	02-13	A		GS 450 Hybrid	07-08	B		B-Series	99-01	A		Highlander	01-03	B
	Explorer	98-01	A		GS 460	08	B		B-Series	01-10	A		Highlander	04-07	B
	Explorer	02-10	A		GX 470	03-09	B		CX7	07-12	A		Highlander	08-10	B
	Explorer Sport Trac	01	A		IS 250	06-08	B		CX9	07-13	A		Highlander Hybrid	06-07	B
	Explorer Sport Trac	02-05	A		IS 300	01-05	B	MX-5	06-13	A	Highlander Hybrid		08-10	B	
	Explorer Sport Trac	07-10	A		IS 350	06-08	B	RX-8	04-11	A	Hilux		04-09	B	
	F-Series Super Duty	08-10	A		IS-F	08	B	Tribute	01-11	A	Land Cruiser		98-02	B	
	F150	99-03	A		LS 400	98-00	B	Cougar	99-02	A	Land Cruiser		03-07	B	
	F150	04-11	A		LS 430	01-03	B	Grand Marquis	98-02	A	Land Cruiser		08-10	B	
	Fiesta	11-13	A		LS 430	04-06	B	Grand Marquis	03-10	A	Matrix		05-10	B	
	Five Hundred	05-07	A		LS 460	07-08	B	Marauder	03-04	A	MR2 Spyder		00-05	B	
	Flex	09-12	A		LS 600 Hybrid	08	B	Mariner	05-10	A	Prius		04-10	B	
	Focus	00-11	A		LX 470	98-02	B	Mariner Hybrid	06-10	A	RAV4		01-03	B	
	Freestar	04-07	A		LX 470	03-07	B	Milan	06-10	A	RAV4		04-08	B	
	Freestyle	05-07	A		RX 300	99-03	B	Montego	05-07	A	RAV4		09-10	B	
	Fusion	06-12	A		RX 330	04-06	B	Monterey	04-07	A	Sequoia		01-07	B	
	Fusion Hybrid	10-12	A		RX 350	07-09	B	Mountaineer	98-01	A	Sequoia		08-10	B	
	GT	05-06	A		RX 400 Hybrid	06-08	B	Mountaineer	02-10	A	Sienna		99-03	B	
	Mustang	99-04	A		SC 300	98-00	B	Mystique	98-00	A	Sienna		04-10	B	
	Mustang	05-13	A		SC 400	98-00	B	Sable	07-09	A	Solara		99-02	B	
	Ranger	99-01	A		SC 430	02-09	B	Sable	00-05	A	Solara		03-04	B	
	Ranger	01-10	A		Aviator	03-05	A	Sable	98-99	A	Solara		05-09	B	
	Taurus STD key	00-12	A		Blackwood	02-03	A	Vibe	08-10	B	Tacoma		05-10	B	
	Taurus STD key	98-99	A		Continental	98-02	A	SCION	tC	05-10	B		Tundra	06	B
Taurus X	08-10	A	LS	00-06	A	xB	08-10		B	Tundra	07-09	B			
Thunderbird	02-05	A	Mark LT	06-08	A	xD	08-10		B	Venza STD key	09	B			
Transit Connect	10-13	A	MKS w/o smartkey	09-12	A	TOYOTA	4Runner	99-02	B	Yaris	06-11	B			
Windstar	99-01	A	MKX	07-10	A		4Runner PTS	10	B						
Windstar	01-03	A	MKZ	07-12	A		4Runner STD key	03-10	B						
JAG	S-Type	99-08	A	Navigator	99-01	A	Avalon	98-04	B						
	X-Type	02-09	A	Navigator	02-13	A	Avalon	05-09	B						

## INSTALL TYPE SELECTION

MAKE	MODEL	YEAR	INSTALL TYPE	NUMBER OF KEYS	
FORD	Contour	98-00	1	1	
	Crown Victoria	98-02	1	1	
	Crown Victoria	03-09	1	2	
	E-Series	08-13	1	2	
	Edge	07-10	1	2	
	Escape	01-12	1	2	
	Escape Hybrid	05-12	1	2	
	Excursion	00-05	1	1	
	Expedition	99-01	1	1	
	Expedition	02-13	1	2	
	Explorer	98-01	1	1	
	Explorer	02-10	1	2	
	Explorer Sport Trac	01	1	1	
	Explorer Sport Trac	02-05	1	2	
	Explorer Sport Trac	07-10	1	2	
	F150	99-03	1	1	
	F150	04-11	1	2	
	F-Series Super Duty	08-10	1	2	
	Fiesta	11-13	1	2	
	Five Hundred	05-07	1	2	
	Flex	09-12	1	2	
	Focus	00-11	1	2	
	Freestar	04-07	1	2	
	Freestyle	05-07	1	2	
	Fusion	06-12	1	2	
	Fusion Hybrid	10-12	1	2	
	GT	05-06	1	2	
	Mustang	99-04	1	1	
	Mustang	05-13	1	2	
	Ranger	99-01*	1	1	
	Ranger	**01-10	1	2	
	Taurus Standard key	98-99	1	1	
Taurus Standard key	00-12	1	2		
Taurus X	08-10	1	2		
Thunderbird	02-05	3	2		
Transit Connect	10-13	1	2		
Windstar	99-01*	1	1		
Windstar	**01-03	1	2		
JAGUAR	S-Type	99-08	3	2	
	X-Type	02-09	3	2	
LINCOLN	Aviator	03-05	1	2	
	Blackwood	02-03	1	2	
	Continental	98-02	1	1	
	LS	00-06	3	2	
	Mark LT	06-08	1	2	
	MKS w/o smartkey	09-12	1	2	
	MKX	07-10	1	2	
	MKZ	07-12	1	2	
	Navigator	99-01	1	1	
	Navigator	02-13	1	2	
	Town Car	98-02	1	1	
	Town Car	03-11	1	2	
	Zephyr	06	1	2	
	2	11-13	1	2	
	3	04-09	2	2	
	3 w/o smartkey	10-13	2	2	
5	06-13	2	2		
6	03-08	2	2		
6 w/o smartkey	09-13	2	2		
MAZDA	B-Series	99-01*	1	1	
	B-Series	**01-10	1	2	
	CX7	07-12	2	2	
	CX9	07-13	2	2	
	MX-5	06-13	2	2	
	RX-8	04-11	2	2	
	Tribute	01-11	1	2	
	MERCURY	Cougar	99-02	1	1
		Grand Marquis	98-02	1	1
		Grand Marquis	03-10	1	2
		Marauder	03-04	1	2
		Mariner	05-10	1	2
Mariner Hybrid		06-10	1	2	
Milan		06-10	1	2	
Montego		05-07	1	2	
Monterey		04-07	1	2	
Mountaineer		98-01	1	1	
Mountaineer		02-10	1	2	
Mystique		98-00	1	1	
Sable	98-99	1	1		
Sable	00-05	1	2		
Sable	07-09	1	2		

### NOTE

- I IMPORTANT: some vehicles only require 1 key for programming.
- II KLON service is available with the TB-FM2 solution for vehicles that require 2 keys for programming.

\* Vehicles manufactured before 07/24/2000

\*\*Vehicles manufactured after 07/24/2000

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

MAKE	MODEL	YEAR	TX		RX		CONNECTOR
			POSITION	WIRE COLOR	POSITION	WIRE COLOR	LOCATION
FORD	Contour	98-00	3	Gray/Orange	4	White/LtGreen	B
	Crown Victoria	98-02	4	White/LtGreen	3	Gray/Orange	A
	Crown Victoria	03-04	4	White/LtGreen	3	Gray/Orange	C
	Crown Victoria	05-09	3	White/LtGreen	4	Gray/Orange	E
	E-Series	08	4	White/LtGreen	3	Gray/Orange	C
	E-Series	09-13	4	Yellow/Orange	3	Violet/Gray	C
	Edge	07-10	3	Violet/Gray	4	Yellow/Orange	E
	Escape / Hybrid	01-07	3	Brown/Orange	4	Red/Black	B
	Escape / Hybrid	08-12	3	Yellow/Orange	4	Violet/Gray	E
	Excursion	00-02/03*	4	White/LtGreen	3	Gray/Orange	A
	Excursion	03**/04-05	4	White/LtGreen	3	Gray/Orange	C
	Expedition	99-02	4	White/LtGreen	3	Gray/Orange	A
	Expedition	03-06	3	White/LtGreen	4	Gray/Orange	B
	Expedition	07-13	3	Violet/Brown	4	Blue/Gray	E
	Explorer	98-00/01*	4	White/LtGreen	3	Gray/Orange	A
	Explorer [2dr]	01**/02-03	4	White/LtGreen	3	Gray/Orange	C
	Explorer	02-05	3	White/LtGreen	4	Gray/Orange	B
	Explorer	06-10	3	Yellow/Orange	4	Violet/Gray	E
	Explorer Sport Trac	01*	4	White/LtGreen	3	Gray/Orange	A
	Explorer Sport Trac	01**/02-05	4	White/LtGreen	3	Gray/Orange	C
	Explorer Sport Trac	07-10	3	Yellow/Orange	4	Violet/Gray	E
	F-150	99-02	4	White/LtGreen	3	Gray/Orange	A
	F-150	03	4	White/LtGreen	3	Gray/Orange	C
	F-150	04-08	3	White/LtGreen	4	Gray/Orange	B
	F-150	09-11	3	Violet/Gray***	4	Yellow/Orange***	E
	F-Series Super Duty	08-10	3	Yellow/Orange	4	Violet/Gray	E
	Fiesta	11-13	3	Yellow/Orange	4	Violet/Gray	E
	Five Hundred	05-07	3	White/LtGreen	4	Gray/Orange	E
	Flex	09-12	3	Yellow/Orange	4	Violet/Gray	E
	Focus	00-07	3	Gray/Orange	4	White/Green	B
	Focus	08-11	4	Violet/Gray***	3	Yellow/Orange***	E
	Freestar	04-07	4	White/LtGreen	3	Gray/Orange	C
	Freestyle	05-07	3	White/LtGreen	4	Gray/Orange	E
	Fusion	06/07*	3	Violet/Gray	4	Yellow/Orange	E
	Fusion	07**/08-12	3	Yellow/Orange	4	Violet/Gray	E
	GT	05-06	3	White/Orange	4	Brown/Orange	B
	Mustang	99-02	4	White/LtGreen	3	Gray/Orange	A
	Mustang	03-04	4	White/LtGreen	3	Gray/Orange	C
	Mustang	05-09	3	White/LtGreen	4	Gray/Orange	E
	Mustang	10-13	3	Violet/Gray	4	Yellow/Red	E
Ranger	99-00	4	White/LtGreen	3	Gray/Orange	A	
Ranger	01-06	4	White/LtGreen	3	Gray/Orange	C	
Ranger	07-10	4	Violet/Brown	3	Blue/Gray	C	
Taurus	98-01	4	Brown/Orange	3	Red/Black	A	
Taurus	02	4	Gray/Red	3	Brown/Yellow	A	
Taurus	03	4	Brown/Yellow	3	Gray/Red	C	

\* EARLY PRODUCTION  
 \*\* LATE PRODUCTION  
 \*\*\* COLORS MAY VARY  
 BUT PIN OUT IS CORRECT

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

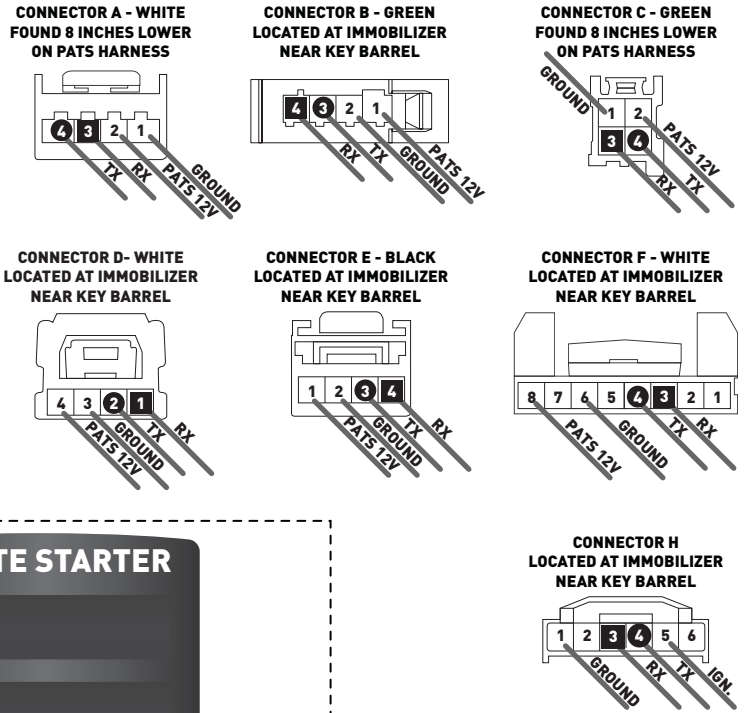
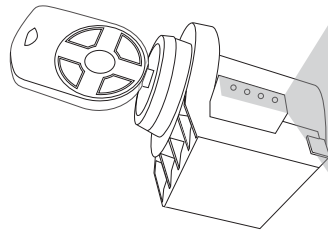
MAKE	MODEL	YEAR	TX		RX		CONNECTOR
			POSITION	WIRE COLOR	POSITION	WIRE COLOR	LOCATION
FORD	Taurus	04-07	4	White/LtGreen	3	Gray/Orange	C
	Taurus	08-12	3	Yellow/Orange	4	Violet/Gray	E
	Taurus X	08-10	3	Yellow/Orange	4	Violet/Gray	E
	Transit Connect	10	4	White/Green	3	Gray/Orange	A
	Transit Connect	11-13	3	White/Green	4	Gray/Orange	A
	Windstar	99-02	4	White/LtGreen	3	Gray/Orange	A
	Windstar	03	4	White/LtGreen	3	Gray/Orange	C
LINCOLN	Aviator	03-05	3	White/LtGreen	4	Gray/Orange	B
	Blackwood	02	4	White/LtGreen	3	Gray/Orange	A
	Blackwood	03	4	White/LtGreen	3	Gray/Orange	C
	Continental	98*	3	White/LtGreen	4	Gray/Orange	A
	Continental	98**/99-02	4	White/LtGreen	3	Gray/Orange	A
	Mark LT	06-08	3	White/LtGreen	4	Gray/Orange	B
	MKS (w/o smartkey)	09-12	3	Yellow/Orange	4	Violet/Gray	E
	MKX	07-10	3	Violet/Gray	4	Yellow/Orange	E
	MKZ	07*	3	Violet/Gray	4	Yellow/Orange	E
	MKZ	07**/08-12	3	Yellow/Orange	4	Violet/Gray	E
	Navigator	99-02	4	White/LtGreen	3	Gray/Orange	A
	Navigator	03-06	3	White/LtGreen	4	Gray/Orange	B
	Navigator	07-13	3	Violet/Brown	4	Blue/Gray	E
	Town Car	98-02	4	White/LtGreen	3	Gray/Orange	A
	Town Car	03-04	4	White/LtGreen	3	Gray/Orange	C
Town Car	05-11	3	White/LtGreen	4	Gray/Orange	E	
Zephyr	06	3	Violet/Gray	4	Yellow/Orange	E	
MAZDA	2	11-13	4	Gray	3	Green	H
	B-Series	99-00	4	White/LtGreen	3	Gray/Orange	A
	B-Series	01-06	4	White/LtGreen	3	Gray/Orange	C
	B-Series	07-10	4	Violet/Brown	3	Blue/Gray	C
	Tribute	01-07	3	Brown/Orange	4	Red/Black	B
	Tribute	08-11	3	Yellow/Orange	4	Violet/Gray	E
MERCURY	Cougar	99-02	3	Gray/Orange	4	White/Green	B
	Grand Marquis	98-02	4	White/LtGreen	3	Gray/Orange	A
	Grand Marquis	03-04	4	White/LtGreen	3	Gray/Orange	C
	Grand Marquis	05-10	3	White/LtGreen	4	Gray/Orange	E
	Marauder	03-04	4	White/LtGreen	3	Gray/Orange	C
	Mariner / Hybrid	05-07	3	Brown/Orange	4	Red/Black	B
	Mariner / Hybrid	08-10	3	Yellow/Orange	4	Violet/Gray	E
	Milan	06/07*	3	Violet/Gray	4	Yellow/Orange	E
	Milan	07**/08-10	3	Yellow/Orange	4	Violet/Gray	E
	Montego	05-07	3	White/LtGreen	4	Gray/Orange	E
	Monterey	04-07	4	White/LtGreen	3	Gray/Orange	C
	Mountaineer	98-01	4	White/LtGreen	3	Gray/Orange	A
	Mountaineer	02-05	3	White/LtGreen	4	Gray/Orange	B
	Mountaineer	06-10	3	Yellow/Orange	4	Violet/Gray	E
	Mystique	98-00	3	Gray/Orange	4	White/LtGreen	B
Sable	98-01	4	Brown/Orange	3	Red/Black	A	

\* EARLY PRODUCTION  
\*\* LATE PRODUCTION

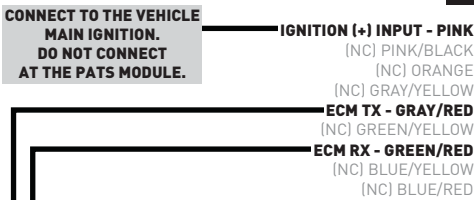
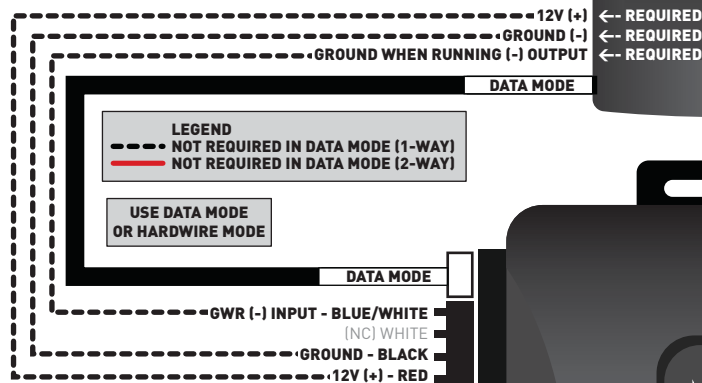
### TYPE 1 - WIRE CROSS REFERENCE CHART - 3 OF 3

MAKE	MODEL	YEAR	TX		RX		CONNECTOR
			POSITION	WIRE COLOR	POSITION	WIRE COLOR	LOCATION
MERCURY	Sable	02	4	Gray/Red	3	Brown/Yellow	A
	Sable	03	4	Brown/Yellow	3	Gray/Red	C
	Sable	04-05	4	White/LtGreen	3	Gray/Orange	C
	Sable	08-09	3	Yellow/Orange	4	Violet/Gray	E

### TYPE 1 - WIRING DIAGRAM



### REMOTE STARTER



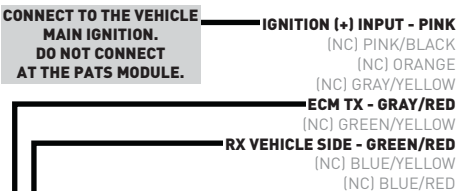
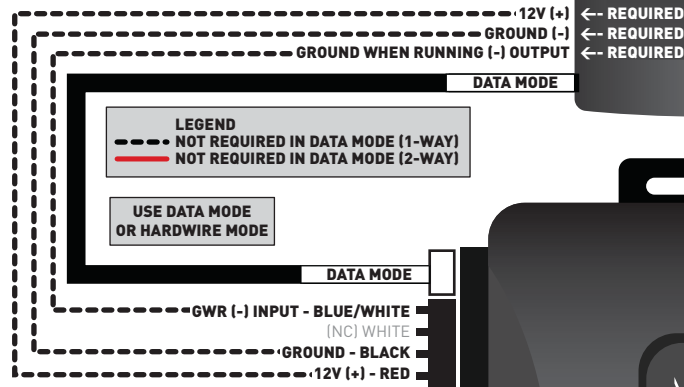
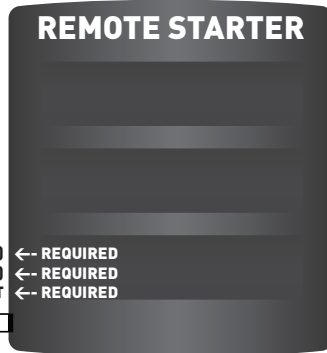
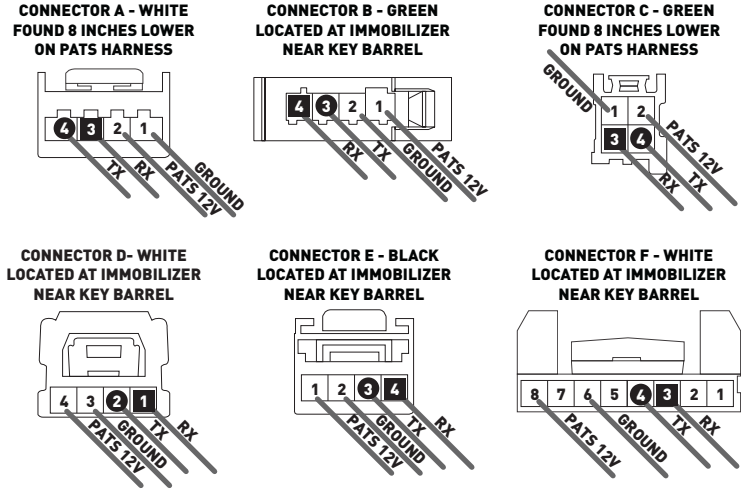
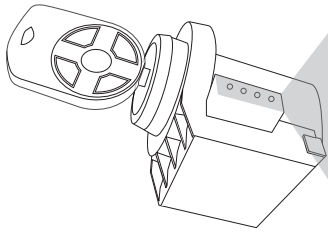
WHITE/BLACK (NC)  
WHITE/RED (NC)  
WHITE (NC)

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

MAKE	MODEL	YEAR	TX		RX		CONNECTOR
			POSITION	WIRE COLOR	POSITION	WIRE COLOR	LOCATION
MAZDA	3	04-09	2	Gray/Orange	1	White/LtGreen	D
	3 (w/o smartkey)	10-13	2	LtBlue	1	Blue	D
	5	06-10	2	Green	1	Pink/Black	D
	5	11-13	2	LtBlue/Orange	1	Gray	D
	6 (w/o smartkey)	03-08	2	Green	1	Orange/LtBlue	D
	6 (with smartkey)	06-08	2	Yellow/Green	1	Gray	D
	6 (w/o smartkey)	09-13	4	Gray/Orange	3	White/LtGreen	F
	CX7	07-12	2	Gray/Orange	1	White/LtGreen	D
	CX9	07-13	2	Blue/Yellow	1	Blue/Orange	D
	MX-5 (w/o smartkey)	06-13	2	Yellow/Black	1	LtBlue/Orange	D
	MX-5 (with smartkey)	06-13	2	Gray/LtBlue	1	Violet	D
	RX-8	04-11	2	LtBlue/Orange	1	Yellow/Black	D

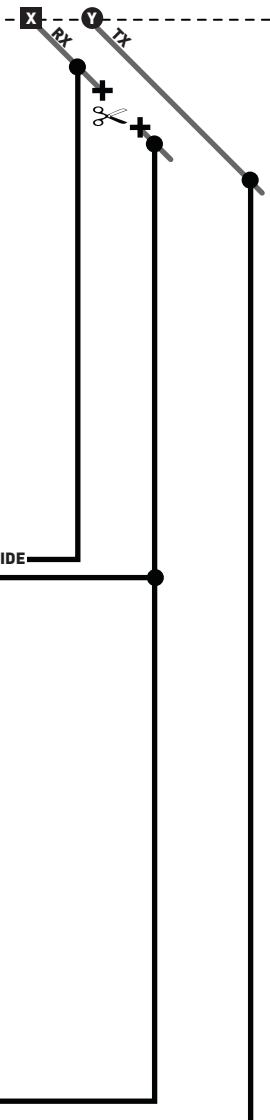


### TYPE 2 - WIRING DIAGRAM



CONNECT TO THE VEHICLE MAIN IGNITION. DO NOT CONNECT AT THE PATS MODULE.

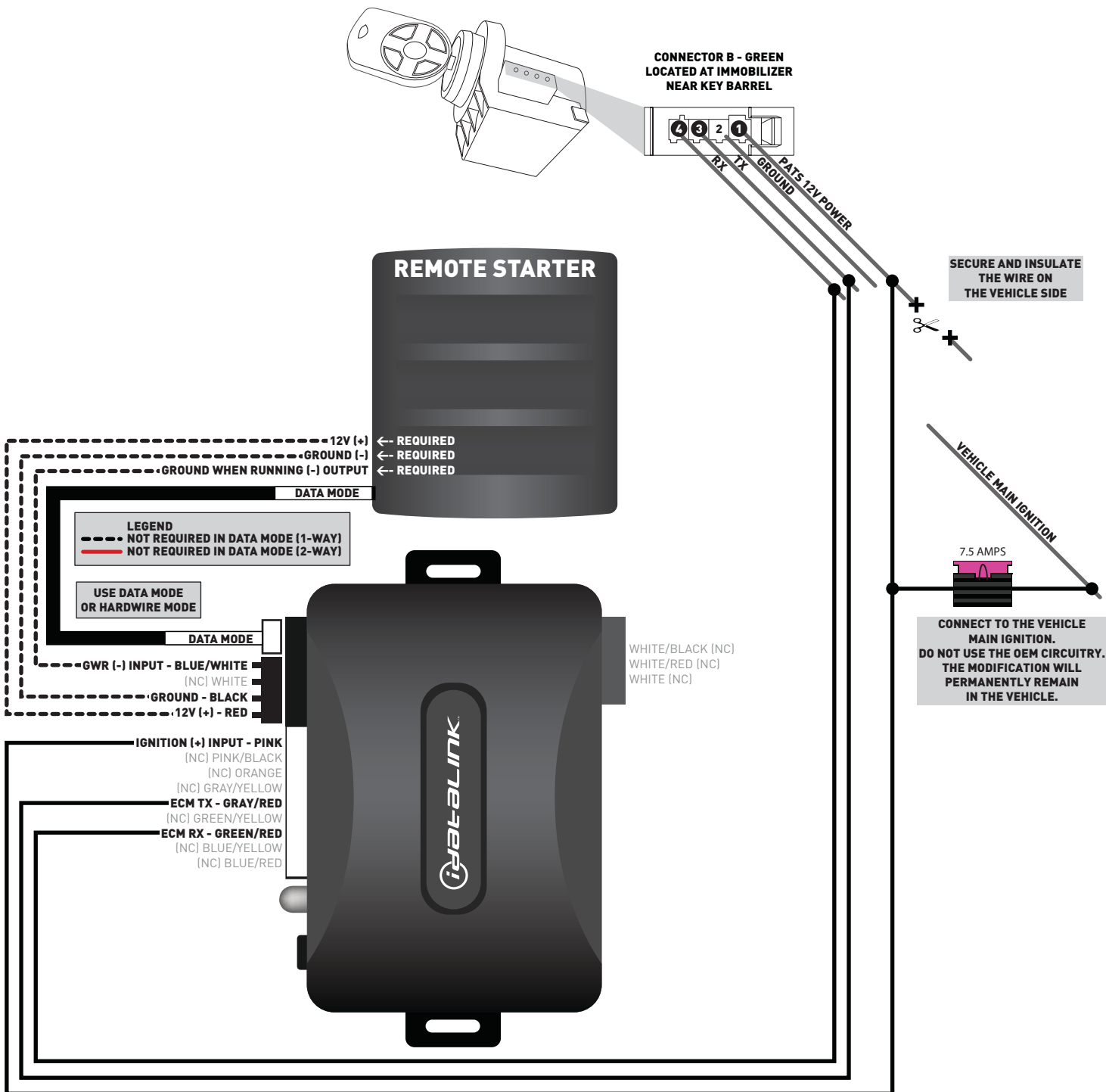
WHITE/BLACK - RX CONNECTOR SIDE  
WHITE/RED - RX VEHICLE SIDE  
WHITE (NC)



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

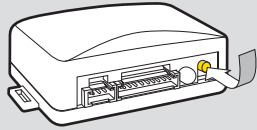
MAKE	MODEL	YEAR	TX		RX		PATS POWER		CONNECTOR
			POSITION	WIRE COLOR	POSITION	WIRE COLOR	POSITION	WIRE COLOR	LOCATION
FORD	Thunderbird	02-05	3	White/Red	4	Gray/Red	1	Orange/Blue	B
JAGUAR	S-Type	99-02	3	White/Red	4	Gray/Red	1	Orange/Blue	B
	S-Type	03-08	3	White/Red	4	Yellow/Red	1	Brown/Green	B
	X-Type	02-09	3	White/Green	4	Orange	1	Green	B
LINCOLN	LS	00-06	3	White/Red	4	Gray/Red	1	Orange/Blue	B

## TYPE 3 - WIRING DIAGRAM



## INSTALLATION MODE SELECTION

1

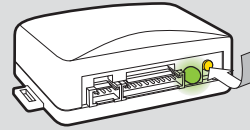


Press and release programming button to select installation mode.



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

2



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

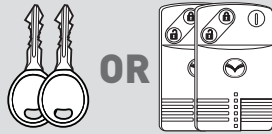


After registration, follow Factory Reset Procedure to change installation mode and restart this procedure.

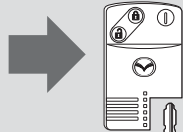
### MODULE PROGRAMMING PROCEDURE - WITH TWO OEM KEYS

#### NOTE

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



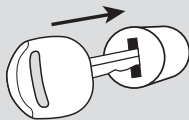
II Keep both OEM remotes at least 10 feet away from the vehicle.



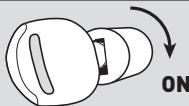
Use both valet keys for the module programming procedure.



**1** Insert key 1 into ignition.

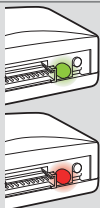


**2** Turn key 1 to ON position.



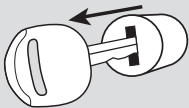
**!** If the LED begins to flash RED, verify the RX and TX connections between the module and the vehicle.

**3** If LED turns solid GREEN for **2 seconds**. Module Programming Procedure completed.

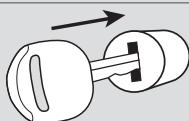


If LED turns solid RED, proceed with following step within **5 seconds**, after LED turns OFF.

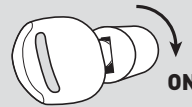
**4** Remove key.



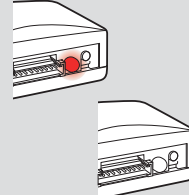
**5** Insert key 2 into ignition.



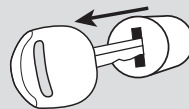
**6** Turn key 2 to ON position.



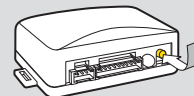
**7** Wait, LED will turn solid RED then will turn OFF.



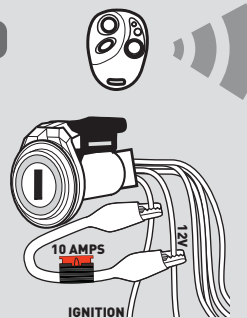
**8** Remove key.



**9** Press and release programming button.

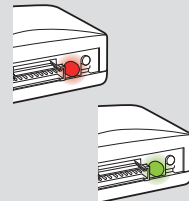


**10** Remote start vehicle.  
OR  
Jump the ignition to 12volts.



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

**11** Wait, LED will turn solid RED then will turn solid GREEN.



**12** Module Programming Procedure completed.

### INSTALL TYPE SELECTION

MAKE	MODEL	YEAR	INSTALL TYPE
TOYOTA	4Runner	99-02	1
	4Runner Regular key	03-10	2
	4Runner PTS	10	3
	Avalon	98-04	1
	Avalon	05-09	2 or 3
	Camry	98-02	1
	Camry	03-04	1 or 2
	Camry	05-06	2
	Camry	07-10	2 or 3
	Camry Hybrid	07-10	3
	Corolla	05-08	2
	Corolla	09-10	2 or 3
	FJ Cruiser	07-09	2
	Hiace	06-09	2
	Highlander	01-03	1
	Highlander	04-07	2
	Highlander	08-10	2 or 3
	Highlander Hybrid	06-07	5
	Highlander Hybrid	08-10	3
	Hilux	04-09	2
	Land Cruiser	98-02	1
	Land Cruiser	03-07	2
	Land Cruiser	08-10	3
	Matrix	05-10	2
	MR2 Spyder	00-05	1
	Prius	04-10	4
	RAV4	01-03	1
	RAV4	04-08	2
	RAV4	09-10	2 or 3
	Sequoia	01-07	1
	Sequoia	08-10	2
	Sienna	99-03	1
Sienna	04-10	2	
Solara	99-02	1	
Solara	03-04	1 or 2	
Solara	05-09	2	
Tacoma	05-10	2	
Tundra	06	1	
Tundra	07-09	2	
Venza Regular key only	09	2	
Yaris	06-11	2	

MAKE	MODEL	YEAR	INSTALL TYPE
LEXUS	ES 300	98-03	1
	ES 330	04-06	2
	ES 350	07-08	3
	GS 300	98-05	1
	GS 300	06	3
	GS 350	07-08	3
	GS 400	98-00	1
	GS 430	01-05	1
	GS 430	06-07	3
	GS 450 Hybrid	07-08	3
	GS 460	08	3
	GX 470	03-09	2
	IS 250	06-08	3
	IS 300	01-05	1
	IS 350	06-08	3
	IS-F	08	3
	LS 400	98-00	1
	LS 430	01-03	1
	LS 430	04-06	1 or 2
	LS 460	07-08	3
	LS 600 Hybrid	08	3
LX 470	98-02	1	
LX 470	03-07	2	
RX 300	99-03	1	
RX 330	04-06	2	
RX 350	07-09	2	
RX 400 Hybrid	06-08	5	
SC 300	98-00	1	
SC 400	98-00	1	
SC 430	02-09	1	
PONTIAC	Vibe	08-10	2
SCION	tC	05-10	2
	xB	08-10	2
	xD	08-10	2

#### NOTE

- I 1/2 - Type may vary by vehicle equipment level.  
2/3 - Type may be standard key or push to start.  
NC - Not covered
- II WARNING: Please advise that the install type numbers have changed since the last revision of this install guide.
- III Type 3 install provides simulated tach output for hybrid vehicles.

A hybrid vehicle might be running without its engine being running.  
To determine whether a hybrid vehicle is running or not, look at the instrument cluster, radio and heating system.

“Push to Start” vehicles have a maximum take over time of 45 seconds: for security reasons, during the remote starter runtime, the driver must press the unlock button of the remote starter fob to trigger a 45 seconds time window which will permit him/her to step into the vehicle and press the brake pedal to complete take over.

### TYPE 1 - WIRE CROSS REFERENCE CHART - 1 OF 5

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
TOYOTA	4Runner	99-02	AMP	A	~	5 pin	1	White/Blue	(DATA)	Ignition switch	~
			Code	A	~	5 pin	2	Gray/Red	(DATA)	Ignition switch	~
			RXCK	A	~	5 pin	3	Red/Black	(DATA)	Ignition switch	~
			TXCT	A	~	5 pin	4	Pink/Black	(DATA)	Ignition switch	~
			Ground	A	~	5 pin	5	Brown	(-)	Ignition switch	~
			Key Sense	A	~	5 pin	~	Yellow/Red	(-)	Ignition switch	~
	Avalon	98-99	AMP	A	~	5 pin	1	LtGreen	(DATA)	Ignition switch	~
			Code	A	~	5 pin	2	Black/Red	(DATA)	Ignition switch	~
			RXCK	A	~	5 pin	3	Yellow	(DATA)	Ignition switch	~
			TXCT	A	~	5 pin	4	Green	(DATA)	Ignition switch	~
			Ground	A	~	5 pin	5	White/Black	(-)	Ignition switch	~
			Key Sense	A	~	5 pin	~	Red/Yellow	(-)	Ignition switch	~
	Avalon	00-04	AMP	A	~	5 pin	1	Black/White	(DATA)	Ignition switch	~
			Code	A	~	5 pin	2	Pink/Green	(DATA)	Ignition switch	~
			RXCK	A	~	5 pin	3	Blue/Orange	(DATA)	Ignition switch	~
			TXCT	A	~	5 pin	4	Blue/Yellow	(DATA)	Ignition switch	~
			Ground	A	~	5 pin	5	White/Black	(-)	Ignition switch	~
			Key Sense	A	~	5 pin	~	Red/White	(-)	Ignition switch	~
	Camry	98-01	AMP	A	~	5 pin	1	Black/Yellow	(DATA)	Ignition switch	~
			Code	A	~	5 pin	2	Green/White	(DATA)	Ignition switch	~
			RXCK	A	~	5 pin	3	Red/Blue	(DATA)	Ignition switch	~
			TXCT	A	~	5 pin	4	Blue/Yellow	(DATA)	Ignition switch	~
			Ground	A	~	5 pin	5	White/Black	(-)	Ignition switch	~
			Key Sense	A	~	5 pin	~	Blue/Black	(-)	Ignition switch	~
	Camry (4 cyl)	02-04	AMP	B	~	7 pin	1	Black/Red	(DATA)	Ignition switch	~
			Code	B	~	7 pin	4	Green/White	(DATA)	Ignition switch	~
			RXCK	B	~	7 pin	3	Red/Blue	(DATA)	Ignition switch	~
			TXCT	B	~	7 pin	5	Blue/Yellow	(DATA)	Ignition switch	~
			Ground	B	~	7 pin	7	White/Black	(-)	Ignition switch	~
			Key Sense	B	~	7 pin	~	Blue	(-)	Ignition switch	~
Camry (6cyl)	02-03	AMP	B	~	7 pin	1	Black/Red	(DATA)	Ignition switch	~	
		Code	B	~	7 pin	4	Green/White	(DATA)	Ignition switch	~	
		RXCK	B	~	7 pin	3	Red/Blue	(DATA)	Ignition switch	~	
		TXCT	B	~	7 pin	5	Blue/Yellow	(DATA)	Ignition switch	~	
		Ground	B	~	7 pin	7	White/Black	(-)	Ignition switch	~	
		Key Sense	B	~	7 pin	~	Blue	(-)	Ignition switch	~	
Highlander	01-03	AMP	B	~	7 pin	1	White	(DATA)	Ignition switch	~	
		Code	B	~	7 pin	4	Gray/Blue	(DATA)	Ignition switch	~	
		RXCK	B	~	7 pin	3	Pink	(DATA)	Ignition switch	~	
		TXCT	B	~	7 pin	5	Gray	(DATA)	Ignition switch	~	
		Ground	B	~	7 pin	7	White/Black	(-)	Ignition switch	~	
		Key Sense	B	~	7 pin	~	Blue	(-)	Ignition switch	~	

### TYPE 1 - WIRE CROSS REFERENCE CHART - 2 OF 5

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
TOYOTA	Land Cruiser	98-02	AMP	E	~	6 pin	1	Black/Yellow	(DATA)	Ignition switch	~
			Code	E	~	6 pin	2	Blue/Black	(DATA)	Ignition switch	~
			RXCK	E	~	6 pin	3	Purple/Green	(DATA)	Ignition switch	~
			TXCT	E	~	6 pin	4	Red/Yellow	(DATA)	Ignition switch	~
			Ground	E	~	6 pin	5	White/Black	(-)	Ignition switch	~
			Key Sense	E	~	6 pin	~	Red/Black	(-)	Ignition switch	~
	MR2 Spyder	00-05	AMP	C	~	5 pin	5	Black	(DATA)	Ignition switch	~
			Code	C	~	5 pin	2	Blue/Yellow	(DATA)	Ignition switch	~
			RXCK	C	~	5 pin	4	Yellow	(DATA)	Ignition switch	~
			TXCT	C	~	5 pin	1	Blue/Black	(DATA)	Ignition switch	~
			Ground	C	~	5 pin	3	White/Black	(-)	Ignition switch	~
			Key Sense	C	~	5 pin	~	Yellow/Red	(-)	Ignition switch	~
	RAV4	01-03	AMP	C	~	5 pin	5	Black/Red	(DATA)	Ignition switch	~
			Code	C	~	5 pin	2	Yellow/Green	(DATA)	Ignition switch	~
			RXCK	C	~	5 pin	4	Yellow	(DATA)	Ignition switch	~
			TXCT	C	~	5 pin	1	Yellow/Black	(DATA)	Ignition switch	~
			Ground	C	~	5 pin	3	White/Black	(-)	Ignition switch	~
			Key Sense	C	~	5 pin	~	Blue/Red	(-)	Ignition switch	~
	Sequoia	01-02	AMP	D	~	6 pin	1	Black/Red	(DATA)	Ignition switch	~
			Code	D	~	6 pin	4	Red/Yellow	(DATA)	Ignition switch	~
			RXCK	D	~	6 pin	5	LtGreen	(DATA)	Ignition switch	~
			TXCT	D	~	6 pin	6	Yellow/Green	(DATA)	Ignition switch	~
			Ground	D	~	6 pin	2	Orange	(-)	Ignition switch	~
			Key Sense	D	~	6 pin	~	Yellow/Green	(-)	Ignition switch	~
	Sequoia	03-07	AMP	D	~	6 pin	1	Gray/Black	(DATA)	Ignition switch	~
			Code	D	~	6 pin	4	Red/Yellow	(DATA)	Ignition switch	~
			RXCK	D	~	6 pin	5	LtGreen	(DATA)	Ignition switch	~
TXCT			D	~	6 pin	6	Yellow/Green	(DATA)	Ignition switch	~	
Ground			D	~	6 pin	2	Gray/LtBlue	(-)	Ignition switch	~	
Key Sense			D	~	6 pin	~	Yellow/Green	(-)	Ignition switch	~	
Sienna	99-03	AMP	A	~	5 pin	1	Black/Red	(DATA)	Ignition switch	~	
		Code	A	~	5 pin	2	Brown/White	(DATA)	Ignition switch	~	
		RXCK	A	~	5 pin	3	Brown/Red	(DATA)	Ignition switch	~	
		TXCT	A	~	5 pin	4	Brown/Yellow	(DATA)	Ignition switch	~	
		Ground	A	~	5 pin	5	White/Black	(-)	Ignition switch	~	
		Key Sense	A	~	5 pin	~	Blue/Black	(-)	Ignition switch	~	
Solara	99-03	AMP	A	~	5 pin	1	Red	(DATA)	Ignition switch	~	
		Code	A	~	5 pin	2	Green/White	(DATA)	Ignition switch	~	
		RXCK	A	~	5 pin	3	Red/Blue	(DATA)	Ignition switch	~	
		TXCT	A	~	5 pin	4	Blue/Yellow	(DATA)	Ignition switch	~	
		Ground	A	~	5 pin	5	White/Black	(-)	Ignition switch	~	
		Key Sense	A	~	5 pin	~	Blue/Black	(-)	Ignition switch	~	



### TYPE 1 - WIRE CROSS REFERENCE CHART - 3 OF 5

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
TOYOTA	Tundra S. Cab	06	AMP	D	~	6 pin	1	Red	(DATA)	Ignition switch	~
			Code	D	~	6 pin	3	Green	(DATA)	Ignition switch	~
			RXCK	D	~	6 pin	4	Blue/Red	(DATA)	Ignition switch	~
			TXCT	D	~	6 pin	5	Gray	(DATA)	Ignition switch	~
			Ground	D	~	6 pin	2	Pink	(-)	Ignition switch	~
			Key Sense	D	~	6 pin	~	Pink/Black	(-)	Ignition switch	~
	Tundra D. Cab	06	AMP	D	~	6 pin	1	White	(DATA)	Ignition switch	~
			Code	D	~	6 pin	4	Green	(DATA)	Ignition switch	~
			RXCK	D	~	6 pin	5	Red	(DATA)	Ignition switch	~
			TXCT	D	~	6 pin	6	Black	(DATA)	Ignition switch	~
			Ground	D	~	6 pin	2	Gray	(-)	Ignition switch	~
			Key Sense	D	~	6 pin	~	Yellow/Green	(-)	Ignition switch	~
LEXUS	ES300	98-01	AMP	A	~	5 pin	1	Black/Yellow	(DATA)	Ignition switch	~
			Code	A	~	5 pin	2	Green/White	(DATA)	Ignition switch	~
			RXCK	A	~	5 pin	3	Red/Blue	(DATA)	Ignition switch	~
			TXCT	A	~	5 pin	4	Blue/Yellow	(DATA)	Ignition switch	~
			Ground	A	~	5 pin	5	White/Black	(-)	Ignition switch	~
			Key Sense	A	~	5 pin	~	Blue/Black	(-)	Ignition switch	~
	ES300	02-03	AMP	B	~	7 pin	1	Black/Red	(DATA)	Ignition switch	~
			Code	B	~	7 pin	4	Green/White	(DATA)	Ignition switch	~
			RXCK	B	~	7 pin	3	Red/Blue	(DATA)	Ignition switch	~
			TXCT	B	~	7 pin	5	Blue/Yellow	(DATA)	Ignition switch	~
			Ground	B	~	7 pin	7	White/Black	(-)	Ignition switch	~
			Key Sense	B	~	7 pin	~	Blue	(-)	Ignition switch	~
	GS 300	98-00	AMP	E	~	6 pin	1	Black/Red	(DATA)	Ignition switch	~
			Code	E	~	6 pin	2	Green/Black	(DATA)	Ignition switch	~
			RXCK	E	~	6 pin	3	Black/White	(DATA)	Ignition switch	~
			TXCT	E	~	6 pin	4	Blue/Red	(DATA)	Ignition switch	~
			Ground	E	~	6 pin	5	White/Black	(-)	Ignition switch	~
			Key Sense	E	~	6 pin	~	Yellow	(-)	Ignition switch	~
	GS 300	01-05	AMP	A	~	5 pin	1	Black/Red	(DATA)	Ignition switch	~
			Code	A	~	5 pin	2	Green/Black	(DATA)	Ignition switch	~
			RXCK	A	~	5 pin	3	Black/White	(DATA)	Ignition switch	~
			TXCT	A	~	5 pin	4	Blue/Red	(DATA)	Ignition switch	~
			Ground	A	~	5 pin	5	White/Black	(-)	Ignition switch	~
			Key Sense	A	~	5 pin	~	Yellow	(-)	Ignition switch	~
GS 400	98-00	AMP	E	~	6 pin	1	Black/Red	(DATA)	Ignition switch	~	
		Code	E	~	6 pin	2	Green/Black	(DATA)	Ignition switch	~	
		RXCK	E	~	6 pin	3	Black/White	(DATA)	Ignition switch	~	
		TXCT	E	~	6 pin	4	Blue/Red	(DATA)	Ignition switch	~	
		Ground	E	~	6 pin	5	White/Black	(-)	Ignition switch	~	
		Key Sense	E	~	6 pin	~	Yellow	(-)	Ignition switch	~	

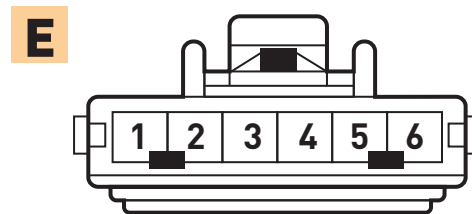
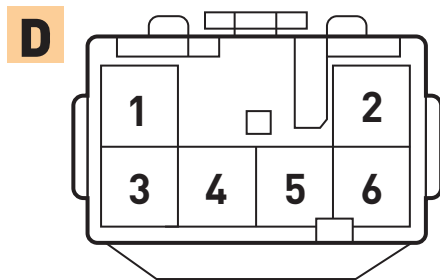
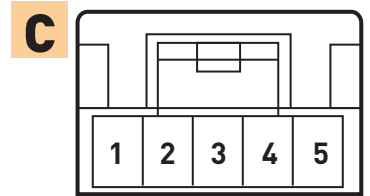
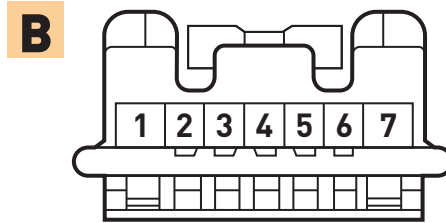
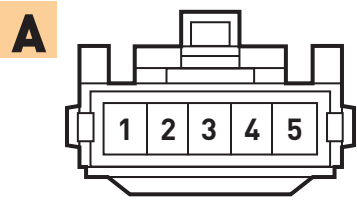
### TYPE 1 - WIRE CROSS REFERENCE CHART - 4 OF 5

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
LEXUS	GS 430	01-05	AMP	A	~	5 pin	1	Black/Red	(DATA)	Ignition switch	~
			Code	A	~	5 pin	2	Green/Black	(DATA)	Ignition switch	~
			RXCK	A	~	5 pin	3	Black/White	(DATA)	Ignition switch	~
			TXCT	A	~	5 pin	4	Blue/Red	(DATA)	Ignition switch	~
			Ground	A	~	5 pin	5	White/Black	(-)	Ignition switch	~
			Key Sense	A	~	5 pin	~	Yellow	(-)	Ignition switch	~
	IS 300	01	AMP	A	~	5 pin	1	Black/Red	(DATA)	Ignition switch	~
			Code	A	~	5 pin	2	Green	(DATA)	Ignition switch	~
			RXCK	A	~	5 pin	3	Purple	(DATA)	Ignition switch	~
			TXCT	A	~	5 pin	4	Pink	(DATA)	Ignition switch	~
			Ground	A	~	5 pin	5	White/Black	(-)	Ignition switch	~
			Key Sense	A	~	5 pin	~	Black/Yellow	(-)	Ignition switch	~
	IS 300	02-05	AMP	A	~	5 pin	1	Black/Red	(DATA)	Ignition switch	~
			Code	A	~	5 pin	2	Green/Black	(DATA)	Ignition switch	~
			RXCK	A	~	5 pin	3	Purple	(DATA)	Ignition switch	~
			TXCT	A	~	5 pin	4	Pink/Black	(DATA)	Ignition switch	~
			Ground	A	~	5 pin	5	White/Black	(-)	Ignition switch	~
			Key Sense	A	~	5 pin	~	Black/Yellow	(-)	Ignition switch	~
	LS 400	98-00	AMP	A	~	5 pin	1	White	(DATA)	Ignition switch	~
			Code	A	~	5 pin	2	Red/White	(DATA)	Ignition switch	~
			RXCK	A	~	5 pin	3	Red/Black	(DATA)	Ignition switch	~
			TXCT	A	~	5 pin	4	Red	(DATA)	Ignition switch	~
			Ground	A	~	5 pin	5	White/Black	(-)	Ignition switch	~
			Key Sense	A	~	5 pin	~	Yellow	(-)	Ignition switch	~
	LS 430	01-03	AMP	B	~	7 pin	1	Orange	(DATA)	Ignition switch	~
			Code	B	~	7 pin	4	Red/White	(DATA)	Ignition switch	~
			RXCK	B	~	7 pin	3	White/Red	(DATA)	Ignition switch	~
			TXCT	B	~	7 pin	5	LtBlue/Black	(DATA)	Ignition switch	~
Ground			B	~	7 pin	7	Violet	(-)	Ignition switch	~	
Key Sense			B	~	7 pin	~	LtGreen/Black	(-)	Ignition switch	~	
LS 430 (Smartkey)	04-06	AMP	B	~	7 pin	1	Red	(DATA)	Ignition switch	~	
		Code	B	~	7 pin	4	Orange	(DATA)	Ignition switch	~	
		RXCK	B	~	7 pin	3	LtBlue	(DATA)	Ignition switch	~	
		TXCT	B	~	7 pin	5	Yellow/Black	(DATA)	Ignition switch	~	
		Ground	B	~	7 pin	7	Violet	(-)	Ignition switch	~	
		Key Sense	B	~	7 pin	~	LtGreen/Black	(-)	Ignition switch	~	
LX 470	98-02	AMP	E	~	6 pin	1	Black/Yellow	(DATA)	Ignition switch	~	
		Code	E	~	6 pin	2	Blue/Black	(DATA)	Ignition switch	~	
		RXCK	E	~	6 pin	3	Purple/Green	(DATA)	Ignition switch	~	
		TXCT	E	~	6 pin	4	Red/Yellow	(DATA)	Ignition switch	~	
		Ground	E	~	6 pin	5	White/Black	(-)	Ignition switch	~	
		Key Sense	E	~	6 pin	~	Red/White	(-)	Ignition switch	~	

### TYPE 1 - WIRE CROSS REFERENCE CHART - 5 OF 5

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
LEXUS	RX 300	99	AMP	A	~	5 pin	1	Blue/White	(DATA)	Ignition switch	~
			Code	A	~	5 pin	2	Purple	(DATA)	Ignition switch	~
			RXCK	A	~	5 pin	3	Black	(DATA)	Ignition switch	~
			TXCT	A	~	5 pin	4	Gray	(DATA)	Ignition switch	~
			Ground	A	~	5 pin	5	White/Black	(-)	Ignition switch	~
			Key Sense	A	~	5 pin	~	Blue	(-)	Ignition switch	~
	RX 300	00	AMP	A	~	5 pin	1	Blue/White	(DATA)	Ignition switch	~
			Code	A	~	5 pin	2	Purple	(DATA)	Ignition switch	~
			RXCK	A	~	5 pin	3	Pink	(DATA)	Ignition switch	~
			TXCT	A	~	5 pin	4	Gray	(DATA)	Ignition switch	~
			Ground	A	~	5 pin	5	White/Black	(-)	Ignition switch	~
			Key Sense	A	~	5 pin	~	Blue	(-)	Ignition switch	~
	RX 300	01-03	AMP	A	~	5 pin	1	Black/Red	(DATA)	Ignition switch	~
			Code	A	~	5 pin	2	Purple	(DATA)	Ignition switch	~
			RXCK	A	~	5 pin	3	Pink	(DATA)	Ignition switch	~
			TXCT	A	~	5 pin	4	Gray	(DATA)	Ignition switch	~
			Ground	A	~	5 pin	5	White/Black	(-)	Ignition switch	~
			Key Sense	A	~	5 pin	~	Blue	(-)	Ignition switch	~
	SC 300	98-00	AMP	A	~	5 pin	1	Black/Red	(DATA)	Ignition switch	~
			Code	A	~	5 pin	2	Black/Orange	(DATA)	Ignition switch	~
			RXCK	A	~	5 pin	3	Blue	(DATA)	Ignition switch	~
			TXCT	A	~	5 pin	4	Green/Orange	(DATA)	Ignition switch	~
			Ground	A	~	5 pin	5	White/Green	(-)	Ignition switch	~
			Key Sense	A	~	5 pin	~	Yellow	(-)	Ignition switch	~
SC 400	98-00	AMP	A	~	5 pin	1	Black/Red	(DATA)	Ignition switch	~	
		Code	A	~	5 pin	2	Black/Orange	(DATA)	Ignition switch	~	
		RXCK	A	~	5 pin	3	Blue	(DATA)	Ignition switch	~	
		TXCT	A	~	5 pin	4	Green/Orange	(DATA)	Ignition switch	~	
		Ground	A	~	5 pin	5	White/Green	(-)	Ignition switch	~	
		Key Sense	A	~	5 pin	~	Yellow	(-)	Ignition switch	~	
SC 430	02-09	AMP	A	~	5 pin	1	Yellow	(DATA)	Ignition switch	~	
		Code	A	~	5 pin	2	Violet/White	(DATA)	Ignition switch	~	
		RXCK	A	~	5 pin	3	Red	(DATA)	Ignition switch	~	
		TXCT	A	~	5 pin	4	Green	(DATA)	Ignition switch	~	
		Ground	A	~	5 pin	5	Violet	(-)	Ignition switch	~	
		Key Sense	A	~	5 pin	~	LtGreen/Black	(-)	Ignition switch	~	

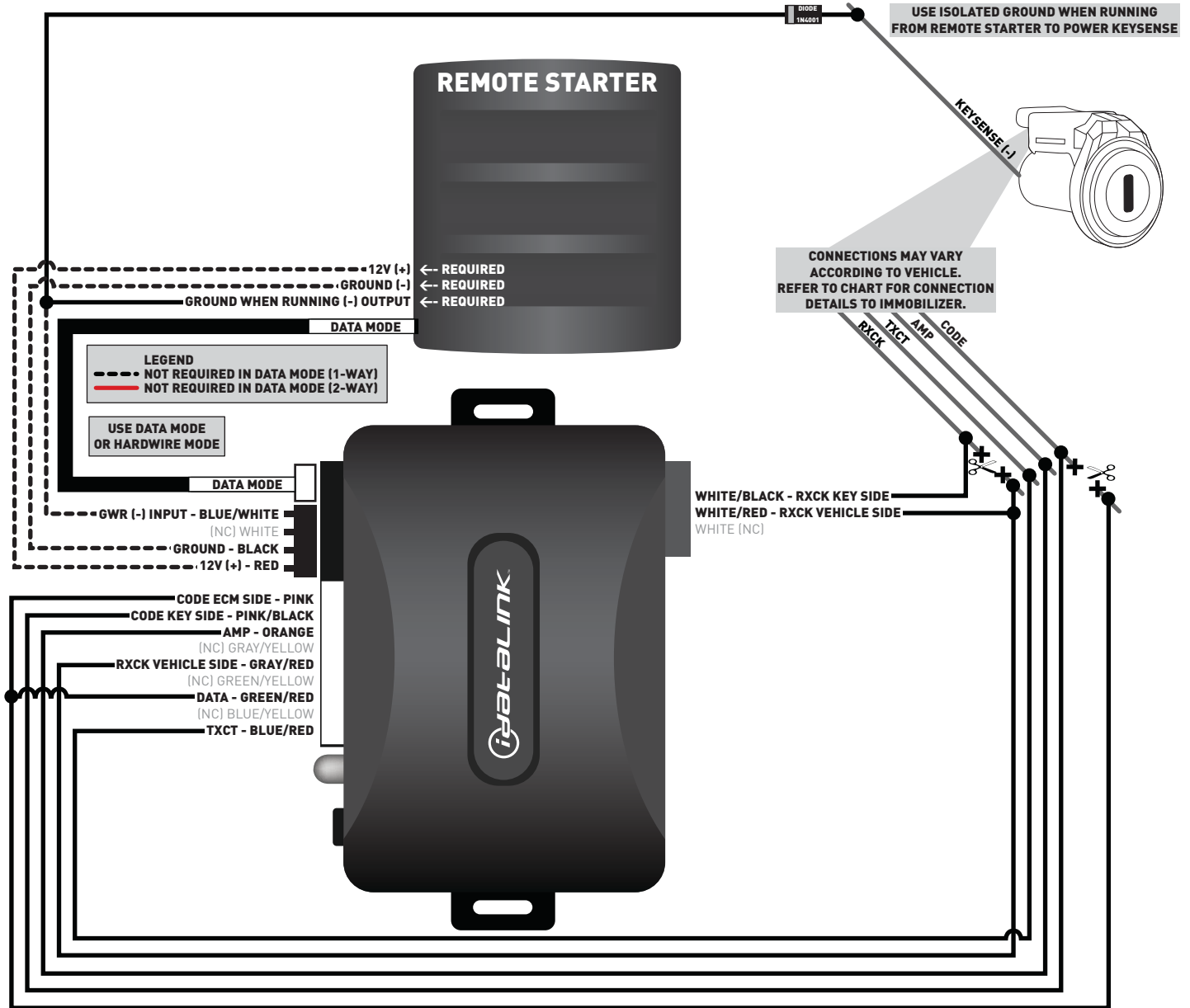
### TYPE 1 - COMPONENT LOCATOR - CONNECTORS



Connector located at immobilizer near key barrel or 8 inches lower on the immobilizer harness.

## TYPE 1 - WIRING DIAGRAM

REQUIRED: 1X DIODE



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

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
TOYOTA	4Runner	03-10	Code	~	~	7 pin	4	Pink/Green	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	LtGreen/Red	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Green/Yellow	(-)	Ignition switch	~
	Avalon	05-09	Code	~	~	7 pin	4	LtGreen	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Brown	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Black	(-)	Ignition switch	~
	Camry	03-06	Code	~	~	7 pin	4	Green/White	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Blue/Yellow	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Blue	(-)	Ignition switch	~
	Camry	07-10	Code	~	~	7 pin	4	Brown	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Red	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Blue	(-)	Ignition switch	~
	Corolla	05-08	Code	~	~	7 pin	4	Blue	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Green	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Blue/Black	(-)	Ignition switch	~
	Corolla (Japan)	09-10	Code	~	~	7 pin	4	LtBlue	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Beige	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	LtBlue	(-)	Ignition switch	~
	Corolla (Canada)	09-10	Code	~	~	7 pin	4	Pink	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Green	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	LtBlue	(-)	Ignition switch	~
	FJ Cruiser	07-09	Code	~	~	7 pin	4	Pink/Green	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	LtGreen/Red	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Green/Yellow	(-)	Ignition switch	~
	Hiace	06-09	Code	~	~	7 pin	4	Blue	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Yellow	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Yellow/Black	(-)	Ignition switch	~
Highlander	04-07	Code	~	~	7 pin	4	Gray	(DATA)	Ignition switch	~	
		TXCT	~	~	7 pin	5	White	(DATA)	Ignition switch	~	
		Keysense	~	~	7 pin	~	Green	(-)	Ignition switch	~	
Highlander	08-10	Code	~	~	7 pin	4	Red	(DATA)	Ignition switch	~	
		TXCT	~	~	7 pin	5	LtBlue	(DATA)	Ignition switch	~	
		Keysense	~	~	7 pin	~	LtBlue	(-)	Ignition switch	~	
Hilux	04-09	Code	~	~	7 pin	4	LtBlue/Yellow	(DATA)	Ignition switch	~	
		TXCT	~	~	7 pin	5	LtBlue/Black	(DATA)	Ignition switch	~	
		Keysense	~	~	7 pin	~	Green/Yellow	(-)	Ignition switch	~	
Land Cruiser	03-07	Code	~	~	7 pin	4	Blue/Black	(DATA)	Ignition switch	~	
		TXCT	~	~	7 pin	5	Violet/Green	(DATA)	Ignition switch	~	
		Keysense	~	~	7 pin	~	Red/Black	(-)	Ignition switch	~	
Matrix	05-08	Code	~	~	7 pin	4	Blue	(DATA)	Ignition switch	~	
		TXCT	~	~	7 pin	5	Green	(DATA)	Ignition switch	~	
		Keysense	~	~	7 pin	~	Blue/Black	(-)	Ignition switch	~	

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

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
TOYOTA	Matrix	09-10	Code	~	~	7 pin	4	LtBlue	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Beige	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Blue	(-)	Ignition switch	~
	RAV4	04-05	Code	~	~	7 pin	4	Blue/Red	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Pink	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Blue/Red	(-)	Ignition switch	~
	RAV4	06-10	Code	~	~	7 pin	4	Pink	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Green	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Blue	(-)	Ignition switch	~
	Sequoia	08-10	Code	~	~	7 pin	4	LtGreen	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Blue	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Gray	(-)	Ignition switch	~
	Sienna	04-10	Code	~	~	7 pin	4	Yellow	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Yellow/Red	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Blue/Black	(-)	Ignition switch	~
	Solara (Convertible)	04-09	Code	~	~	7 pin	4	Green/White	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Blue/Yellow	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Blue	(-)	Ignition switch	~
	Solara (Coupe)	04-09	Code	~	~	7 pin	4	Yellow	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Yellow/Red	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Blue	(-)	Ignition switch	~
Tacoma	05-10	Code	~	~	7 pin	4	Pink/Green	(DATA)	Ignition switch	~	
		TXCT	~	~	7 pin	5	LtGreen/Red	(DATA)	Ignition switch	~	
		Keysense	~	~	7 pin	~	Green/Black	(-)	Ignition switch	~	
Tundra	07-09	Code	~	~	7 pin	4	LtGreen	(DATA)	Ignition switch	~	
		TXCT	~	~	7 pin	5	Blue	(DATA)	Ignition switch	~	
		Keysense	~	~	7 pin	~	Gray	(-)	Ignition switch	~	
Venza	09	Code	~	~	7 pin	4	LtGreen	(DATA)	Ignition switch	~	
		TXCT	~	~	7 pin	5	Brown	(DATA)	Ignition switch	~	
		Keysense	~	~	7 pin	~	Brown	(-)	Ignition switch	~	
Yaris	06-11	Code	~	~	7 pin	4	Green	(DATA)	Ignition switch	~	
		TXCT	~	~	7 pin	5	Violet	(DATA)	Ignition switch	~	
		Keysense	~	~	7 pin	~	Yellow	(-)	Ignition switch	~	
LEXUS	ES 330	04-06	Code	~	~	7 pin	4	Green/White	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Blue/Yellow	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Blue	(-)	Ignition switch	~
	GX 470	03-09	Code	~	~	7 pin	4	Yellow	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Yellow/Black	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Green/Yellow	(-)	Ignition switch	~
	LS 430	04-06	Code	~	~	7 pin	4	Red/White	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Blue/Black	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	LtGreen/Black	(-)	Ignition switch	~

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

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
LEXUS	LX 470	03-07	Code	~	~	7 pin	4	Blue/Black	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Violet/Green	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Red/Black	(-)	Ignition switch	~
	RX 330	04-06	Code	~	~	7 pin	4	LtGreen	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Brown	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Black	(-)	Ignition switch	~
	RX 350	07-08	Code	~	~	7 pin	4	LtGreen	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Brown	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Black	(-)	Ignition switch	~
PONTIAC	Vibe	08	Code	~	~	7 pin	4	Blue	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Green	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Blue/Black	(-)	Ignition switch	~
	Vibe	09-10	Code	~	~	7 pin	4	LtBlue	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Beige	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Blue	(-)	Ignition switch	~
SCION	tC	05-10	Code	~	~	7 pin	4	Yellow	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Red	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Black	(-)	Ignition switch	~
	xB	08-10	Code	~	~	7 pin	4	LtBlue	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Beige	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	LtBlue	(-)	Ignition switch	~
	xD	08-10	Code	~	~	7 pin	4	Green	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Violet	(DATA)	Ignition switch	~
			Keysense	~	~	7 pin	~	Yellow	(-)	Ignition switch	~





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

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
TOYOTA	4Runner PTS	10	Code	~	~	16 pin	10	Violet	(DATA)	Push to Start	~
			TXCT	~	~	16 pin	9	White	(DATA)	Push to Start	~
			Push to Start	~	~	16 pin	7	LtGreen	(-)	Push to Start	~
			Ignition	A	~	4 pin	4	White	(+)	Brake switch above brake pedal	~
			12V (Brake)	A	~	4 pin	2	Red	(+)	Brake switch above brake pedal	~
			Brake	A	~	4 pin	1	Violet/Green	(+)	Brake switch above brake pedal	~
	Avalon (Smartkey)	05-09	Code	~	~	16 pin	10	White	(DATA)	Push to Start	~
			TXCT	~	~	16 pin	9	Gray	(DATA)	Push to Start	~
			Push to Start	~	~	16 pin	7	Blue	(-)	Push to Start	~
			Ignition	A	~	4 pin	3	Brown	(+)	Brake switch above brake pedal	~
			12V (Brake)	A	~	4 pin	2	Black	(+)	Brake switch above brake pedal	~
			Brake	A	~	4 pin	1	White	(+)	Brake switch above brake pedal	~
	Camry Hybrid	07-10	Code	~	~	16 pin	10	White	(DATA)	Push to Start	~
			TXCT	~	~	16 pin	9	Gray	(DATA)	Push to Start	~
			Push to Start	~	~	16 pin	7	Blue	(-)	Push to Start	~
			Ignition	A	~	4 pin	3	Black	(+)	Brake switch above brake pedal	~
			12V (Brake)	A	~	4 pin	2	Black	(+)	Brake switch above brake pedal	~
			Brake	A	~	4 pin	1	White	(+)	Brake switch above brake pedal	~
	Camry (Smartkey)	07-10	Code	~	~	16 pin	10	White	(DATA)	Push to Start	~
			TXCT	~	~	16 pin	9	Gray	(DATA)	Push to Start	~
			Push to Start	~	~	16 pin	7	Blue	(-)	Push to Start	~
			Ignition	A	~	4 pin	3	Black	(+)	Brake switch above brake pedal	~
			12V (Brake)	A	~	4 pin	2	Black	(+)	Brake switch above brake pedal	~
			Brake	A	~	4 pin	1	Blue	(+)	Brake switch above brake pedal	~
	Corolla (Smartkey)	09-10	Code	~	~	16 pin	10	Green	(DATA)	Push to Start	~
			TXCT	~	~	16 pin	9	LtBlue	(DATA)	Push to Start	~
			Push to Start	~	~	16 pin	7	White	(-)	Push to Start	~
			Ignition	A	~	4 pin	3	Black	(+)	Brake switch above brake pedal	~
12V (Brake)			A	~	4 pin	2	White	(+)	Brake switch above brake pedal	~	
Brake			A	~	4 pin	1	Blue	(+)	Brake switch above brake pedal	~	
Highlander (Smartkey)	08-10	Code	~	~	16 pin	10	Gray	(DATA)	Push to Start	~	
		TXCT	~	~	16 pin	9	Orange	(DATA)	Push to Start	~	
		Push to Start	~	~	16 pin	7	Pink	(-)	Push to Start	~	
		Ignition	A	~	4 pin	3	White	(+)	Brake switch above brake pedal	~	
		12V (Brake)	A	~	4 pin	2	Violet	(+)	Brake switch above brake pedal	~	
		Brake	A	~	4 pin	1	Blue	(+)	Brake switch above brake pedal	~	
Highlander Hybrid	08-10	Code	~	~	16 pin	10	Gray	(DATA)	Push to Start	~	
		TXCT	~	~	16 pin	9	Orange	(DATA)	Push to Start	~	
		Push to Start	~	~	16 pin	7	Pink	(-)	Push to Start	~	
		Ignition	A	~	4 pin	3	White	(+)	Brake switch above brake pedal	~	
		12V (Brake)	A	~	4 pin	2	Violet	(+)	Brake switch above brake pedal	~	
		Brake	A	~	4 pin	1	Blue	(+)	Brake switch above brake pedal	~	

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

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
TOYOTA	Land Cruiser	08-10	Code	~	~	16 pin	10	Green	(DATA)	Push to Start	~
			TXCT	~	~	16 pin	9	LtBlue	(DATA)	Push to Start	~
			Push to Start	~	~	16 pin	7	Black	(-)	Push to Start	~
			Ignition	B	~	4 pin	3	Black	(+)	Brake switch above brake pedal	~
			12V (Brake)	B	~	4 pin	2	Blue/Black	(+)	Brake switch above brake pedal	~
			Brake	B	~	4 pin	1	Red	(+)	Brake switch above brake pedal	~
	RAV4 (Smartkey)	09-10	Code	~	~	16 pin	10	White	(DATA)	Push to Start	~
			TXCT	~	~	16 pin	9	Blue	(DATA)	Push to Start	~
			Push to Start	~	~	16 pin	7	White	(-)	Push to Start	~
			Ignition	B	~	4 pin	4	Black	(+)	Brake switch above brake pedal	~
			12V (Brake)	B	~	4 pin	2	White	(+)	Brake switch above brake pedal	~
			Brake	B	~	4 pin	1	Blue	(+)	Brake switch above brake pedal	~
LEXUS	ES 350	07-08	Code	~	~	16 pin	10	White	(DATA)	Push to Start	~
			TXCT	~	~	16 pin	9	Gray	(DATA)	Push to Start	~
			Push to Start	~	~	16 pin	7	Blue	(-)	Push to Start	~
			Ignition	A	~	4 pin	3	Black	(+)	Brake switch above brake pedal	~
			12V (Brake)	A	~	4 pin	2	Black	(+)	Brake switch above brake pedal	~
			Brake	A	~	4 pin	1	Blue	(+)	Brake switch above brake pedal	~
	GS 300	06	Code	~	~	16 pin	10	Yellow	(DATA)	Push to Start	~
			TXCT	~	~	16 pin	9	Blue	(DATA)	Push to Start	~
			Push to Start	~	~	16 pin	7	Pink	(-)	Push to Start	~
			Ignition	B	~	4 pin	3	Black/White	(+)	Brake switch above brake pedal	~
			12V (Brake)	A	~	4 pin	2	Blue/White	(+)	Brake switch above brake pedal	~
			Brake	B	~	4 pin	1	Red/Black	(+)	Brake switch above brake pedal	~
	GS 350	07-08	Code	~	~	16 pin	10	Yellow	(DATA)	Push to Start	~
			TXCT	~	~	16 pin	9	Blue	(DATA)	Push to Start	~
			Push to Start	~	~	16 pin	7	Pink	(-)	Push to Start	~
			Ignition	B	~	4 pin	3	Black/White	(+)	Brake switch above brake pedal	~
			12V (Brake)	B	~	4 pin	2	Blue/White	(+)	Brake switch above brake pedal	~
			Brake	B	~	4 pin	1	Red/Black	(+)	Brake switch above brake pedal	~
	GS 430	06-07	Code	~	~	16 pin	10	Yellow	(DATA)	Push to Start	~
			TXCT	~	~	16 pin	9	Blue	(DATA)	Push to Start	~
			Push to Start	~	~	16 pin	7	Pink	(-)	Push to Start	~
			Ignition	B	~	4 pin	3	Black/White	(+)	Brake switch above brake pedal	~
			12V (Brake)	B	~	4 pin	2	Blue/White	(+)	Brake switch above brake pedal	~
			Brake	B	~	4 pin	1	Red/Black	(+)	Brake switch above brake pedal	~
GS 450 Hybrid	07-08	Code	~	~	16 pin	10	Yellow	(DATA)	Push to Start	~	
		TXCT	~	~	16 pin	9	Blue	(DATA)	Push to Start	~	
		Push to Start	~	~	16 pin	7	Pink	(-)	Push to Start	~	
		Ignition	B	~	4 pin	3	Black/White	(+)	Brake switch above brake pedal	~	
		12V (Brake)	B	~	4 pin	2	Blue/White	(+)	Brake switch above brake pedal	~	
		Brake	B	~	4 pin	1	Red/Black	(+)	Brake switch above brake pedal	~	

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

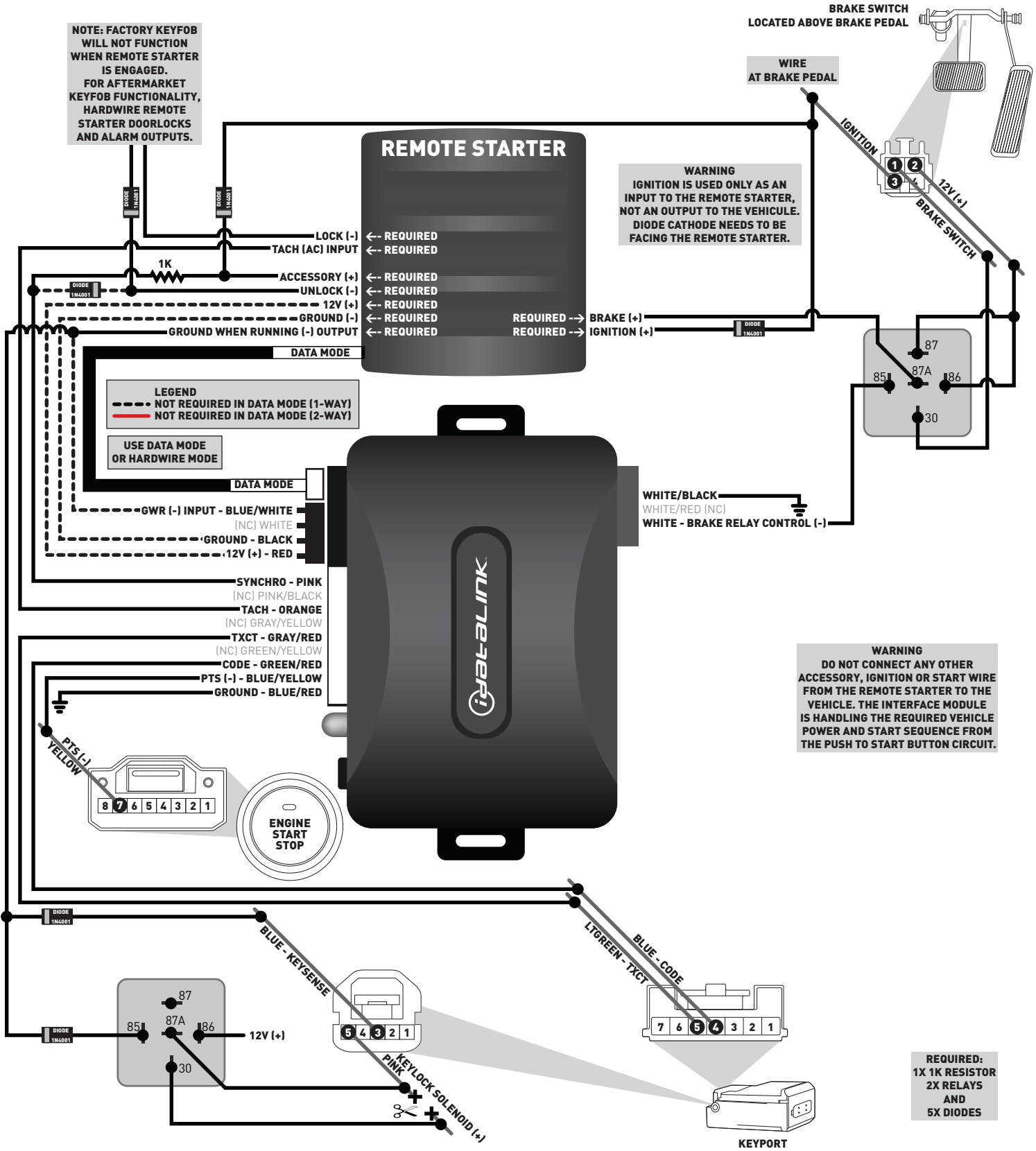
MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
LEXUS	GS 460	08	Code	~	~	16 pin	10	Yellow	(DATA)	Push to Start	~
			TXCT	~	~	16 pin	9	Blue	(DATA)	Push to Start	~
			Push to Start	~	~	16 pin	7	Pink	(-)	Push to Start	~
			Ignition	B	~	4 pin	3	Black/White	(+)	Brake switch above brake pedal	~
			12V (Brake)	B	~	4 pin	2	Blue/White	(+)	Brake switch above brake pedal	~
			Brake	B	~	4 pin	1	Red/Black	(+)	Brake switch above brake pedal	~
	IS 250	06-08	Code	~	~	16 pin	10	LtBlue	(DATA)	Push to Start	~
			TXCT	~	~	16 pin	9	Blue	(DATA)	Push to Start	~
			Push to Start	~	~	16 pin	7	Black	(-)	Push to Start	~
			Ignition	B	~	4 pin	4	LtGreen	(+)	Brake switch above brake pedal	~
			12V (Brake)	B	~	4 pin	2	Blue/White	(+)	Brake switch above brake pedal	~
			Brake	B	~	4 pin	1	Red/Black	(+)	Brake switch above brake pedal	~
	IS 350	06-08	Code	~	~	16 pin	10	LtBlue	(DATA)	Push to Start	~
			TXCT	~	~	16 pin	9	Blue	(DATA)	Push to Start	~
			Push to Start	~	~	16 pin	7	Black	(-)	Push to Start	~
			Ignition	B	~	4 pin	4	LtGreen	(+)	Brake switch above brake pedal	~
			12V (Brake)	B	~	4 pin	2	Blue/White	(+)	Brake switch above brake pedal	~
			Brake	B	~	4 pin	1	Red/Black	(+)	Brake switch above brake pedal	~
	IS-F	08	Code	~	~	16 pin	10	LtBlue	(DATA)	Push to Start	~
			TXCT	~	~	16 pin	9	Blue	(DATA)	Push to Start	~
			Push to Start	~	~	16 pin	7	Black	(-)	Push to Start	~
			Ignition	B	~	4 pin	4	LtGreen	(+)	Brake switch above brake pedal	~
			12V (Brake)	B	~	4 pin	2	Blue/White	(+)	Brake switch above brake pedal	~
			Brake	B	~	4 pin	1	Red/Black	(+)	Brake switch above brake pedal	~
LS 460	07-08	Code	~	~	16 pin	10	White	(DATA)	Push to Start	~	
		TXCT	~	~	16 pin	9	Orange	(DATA)	Push to Start	~	
		Push to Start	~	~	16 pin	7	White	(-)	Push to Start	~	
		Ignition	B	~	4 pin	3	Red	(+)	Brake switch above brake pedal	~	
		12V (Brake)	B	~	4 pin	2	Green	(+)	Brake switch above brake pedal	~	
		Brake	B	~	4 pin	1	Blue	(+)	Brake switch above brake pedal	~	
LS 600 Hybrid	08	Code	~	~	16 pin	10	White	(DATA)	Push to Start	~	
		TXCT	~	~	16 pin	9	Orange	(DATA)	Push to Start	~	
		Push to Start	~	~	16 pin	7	White	(-)	Push to Start	~	
		Ignition	B	~	4 pin	4	LtGreen	(+)	Brake switch above brake pedal	~	
		12V (Brake)	B	~	4 pin	2	Green	(+)	Brake switch above brake pedal	~	
		Brake	B	~	4 pin	1	Red/Black	(+)	Brake switch above brake pedal	~	



### TYPE 4 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
TOYOTA	Prius	04-10	Code	~	~	7 pin	4	Blue	(DATA)	At Key Port	~
			TXCT	~	~	7 pin	5	LtGreen	(DATA)	At Key Port	~
			Push to Start	~	~	8 pin	7	Yellow	(-)	At Start Button	~
			Ignition	A	~	4 pin	3	Orange	(+)	Above Brake Pedal	~
			12V (Brake)	A	~	4 pin	2	Black	(+)	Above Brake Pedal	~
			Brake	A	~	4 pin	1	Blue	(+)	Above Brake Pedal	~

### TYPE 4 - WIRING DIAGRAM

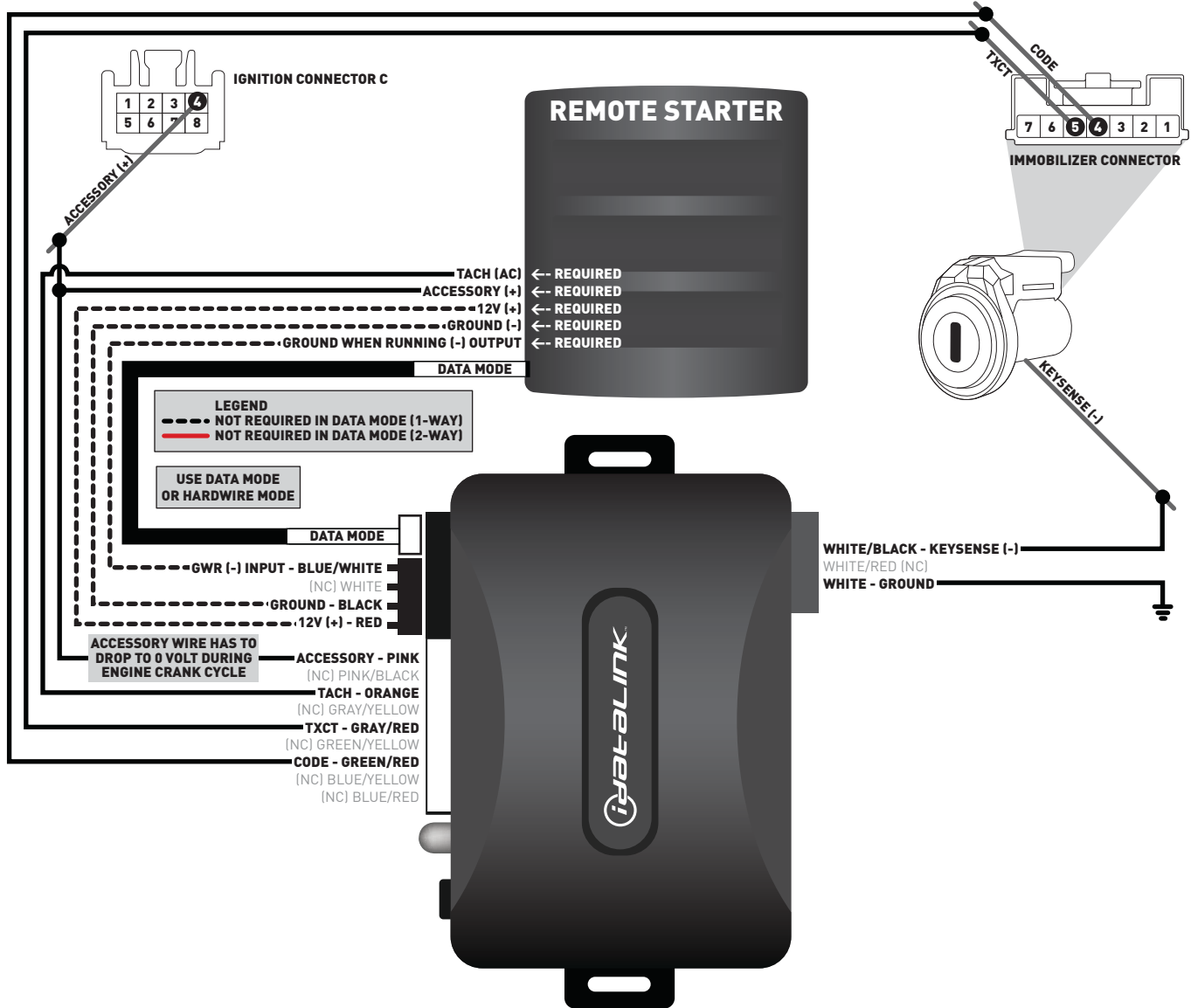


### TYPE 5 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR				WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE	POSITION				
TOYOTA	Highlander Hybrid	06-07	Code	~	~	7 pin	4	Gray	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	LtBlue	(DATA)	Ignition switch	~
			Keysense	~	~	~	~	Green	(-)	Ignition switch	~
			Accessory	C	~	8 pin	4	Green	(+)	Ignition switch	~
LEXUS	RX 400 Hybrid	06-08	Code	~	~	7 pin	4	LtGreen	(DATA)	Ignition switch	~
			TXCT	~	~	7 pin	5	Brown	(DATA)	Ignition switch	~
			Keysense	~	~	~	~	Black	(-)	Ignition switch	~
			Accessory	C	~	8 pin	4	Green	(+)	Ignition switch	~





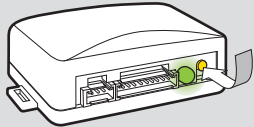
### TYPE 5 - WIRING DIAGRAM



### INSTALLATION MODE SELECTION

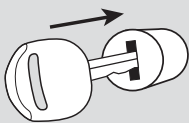
**1**  Press and release programming button to select installation mode.

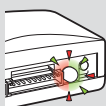
 LED flashes (1X) once = DATA MODE  
 LED flashes (2X) twice = STANDARD HARDWIRE MODE

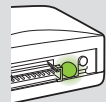
**2**  Press and hold programming button until LED turns solid GREEN to register selection.

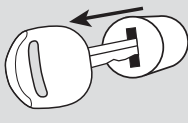
**!** After registration, follow Factory Reset Procedure to change installation mode and restart this procedure.

### TYPE 1, 2 & 5 - MODULE PROGRAMMING PROCEDURE - REGULAR KEY

**1**  Insert key into ignition.  
(OR insert key into keyport)

**2**  LED will flash GREEN and RED.

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

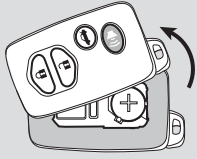
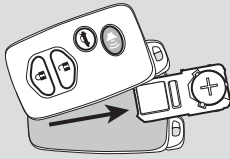
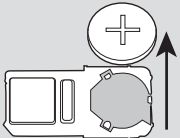
**4**  Remove key.  
(OR remove key from keyport)

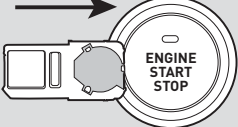

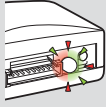

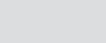
**5** Module Programming Procedure completed.

### TYPE 3 - MODULE PROGRAMMING PROCEDURE - SMARTKEY PUSH TO START

#### NOTE

I When programming, only one key fob will be used. The other one must be located at least 10 feet away from the vehicle.

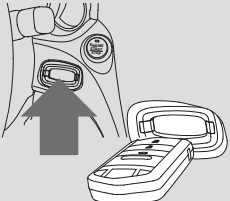
- 1  Open key fob.
- 2  Remove circuit board from key fob.
- 3  Remove battery from circuit board.


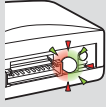

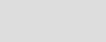
- 4  Place circuit board in front of push to start button.
- 5  Push start button twice [2x] to ON position.
- 6  LED will flash GREEN and RED.
- 7  Wait, LED will turn solid GREEN for **2 seconds**.
- 8  Module Programming Procedure completed.

### TYPE 4 - MODULE PROGRAMMING PROCEDURE - NON-RFID PUSH TO START

#### NOTE

I When programming, only one key fob will be used. The other one must be located at least 10 feet away from the vehicle.

- 1  Insert keyfob in keyport.

- 2  Push start button twice [2x] to ON position.
- 3  LED will flash GREEN and RED.
- 4  Wait, LED will turn solid GREEN for **2 seconds**.
- 5  Module Programming Procedure completed.

## PUSH TO START VEHICLE TAKE OVER PROCEDURE - TO THE VEHICLE OWNER

### NOTE

- I This procedure is to be followed during remote starter runtime prior to entering vehicle.
- II Do not attempt to remote start the vehicle when the OEM RFID FOB's are in the vehicle.



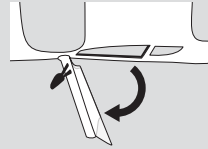
### TIME RESTRICTION COMING UP !

1



Press UNLOCK on after-market remote.

2



### TIME RESTRICTION

Within 45 SECONDS from previous step:

Open vehicle door.

Enter vehicle.

Close vehicle door.

Press and release BRAKE pedal.



3

Push to Start vehicle take over procedure completed.



Failure to follow procedure within time restriction will result in vehicle engine shutdown.

### IDENTIFY VEHICLE YEAR

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

○ 4 3 A 5 Y 1 N 5 T **A** L 8 D 5 R O X ○

**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.