



Automotive Data Solutions Inc.

INSTALL GUIDE DBI-AL(DL)-TL2-EN

TL2

AVAILABLE FOR: DBI-AL CA

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PATENT NO. US 8,856,780 CA 2759622

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LEXUS

 **TOYOTA**

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INSTALL TYPE SELECTION

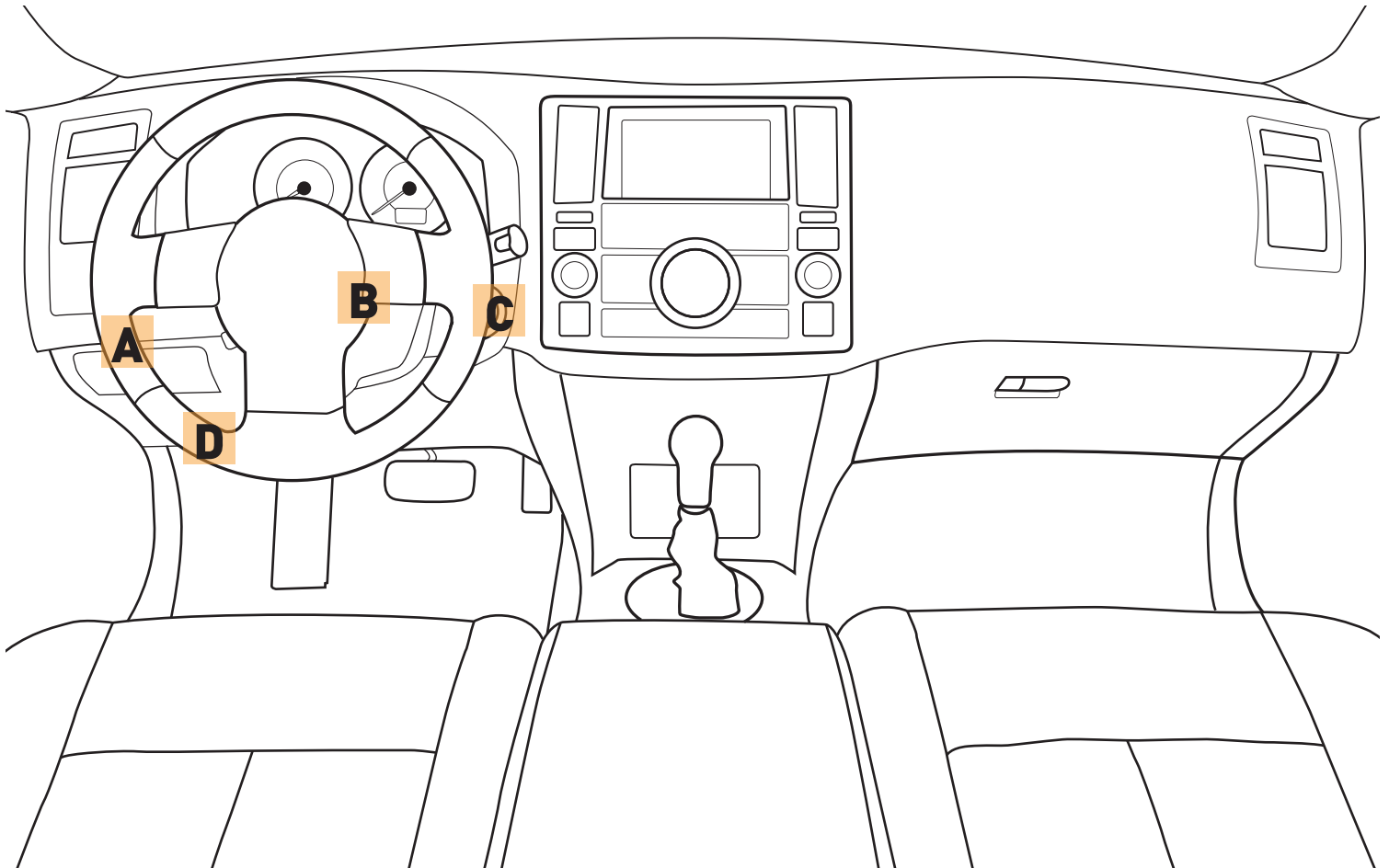
MAKE	MODEL	YEAR	INSTALL TYPE	FEATURES															
				DATA IMMOBILIZER BYPASS	PUSH TO START CTRL	ARM OEM ALARM	DISARM OEM ALARM	DOOR LOCK	DOOR UNLOCK	POWER SLIDING DOOR (L)	POWER SLIDING DOOR (R)	TRUNK/HATCH RELEASE	POWER LIFTGATE	TACHOMETER OUTPUT	BRAKE PEDAL STATUS OUTPUT	E-BRAKE OUTPUT	DOOR STATUS OUTPUT	TRUNK STATUS OUTPUT	HOOD STATUS OUTPUT*
LEXUS	CT200h PTS	11-17	3	•	•	•	•	•	•				•	•	•	•	•	•	
	GX460 PTS	10-19	2	•	•	•	•	•	•				•	•	•	•	•	•	
	HS250h PTS	10-12	3	•	•	•	•	•	•			•		•	•	•	•	•	
	RX350 PTS	10-15	2	•	•	•	•	•	•				•	•	•	•	•	•	
	RX450h PTS	10-15	2	•	•	•	•	•	•				•	•	•	•	•	•	
TOYOTA	4Runner PTS	10-19	2	•	•	•	•	•	•				•	•	•	•	•	•	
	Prius PTS	10-15	3	•	•	•	•	•	•				•	•	•	•	•	•	
	Prius V PTS	12-16	3	•	•	•	•	•	•				•	•	•	•	•	•	
	Sienna PTS	11-20	4	•	•	•	•	•	•	•	•		•	•	•	•	•	•	
	Venza PTS	09-16	1	•	•	•	•	•	•				•	•	•	•	•	•	
SCION	tC PTS	11-16	5	•	•	•	•	•	•			•		•	•	•	•	•	

NOTE

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

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

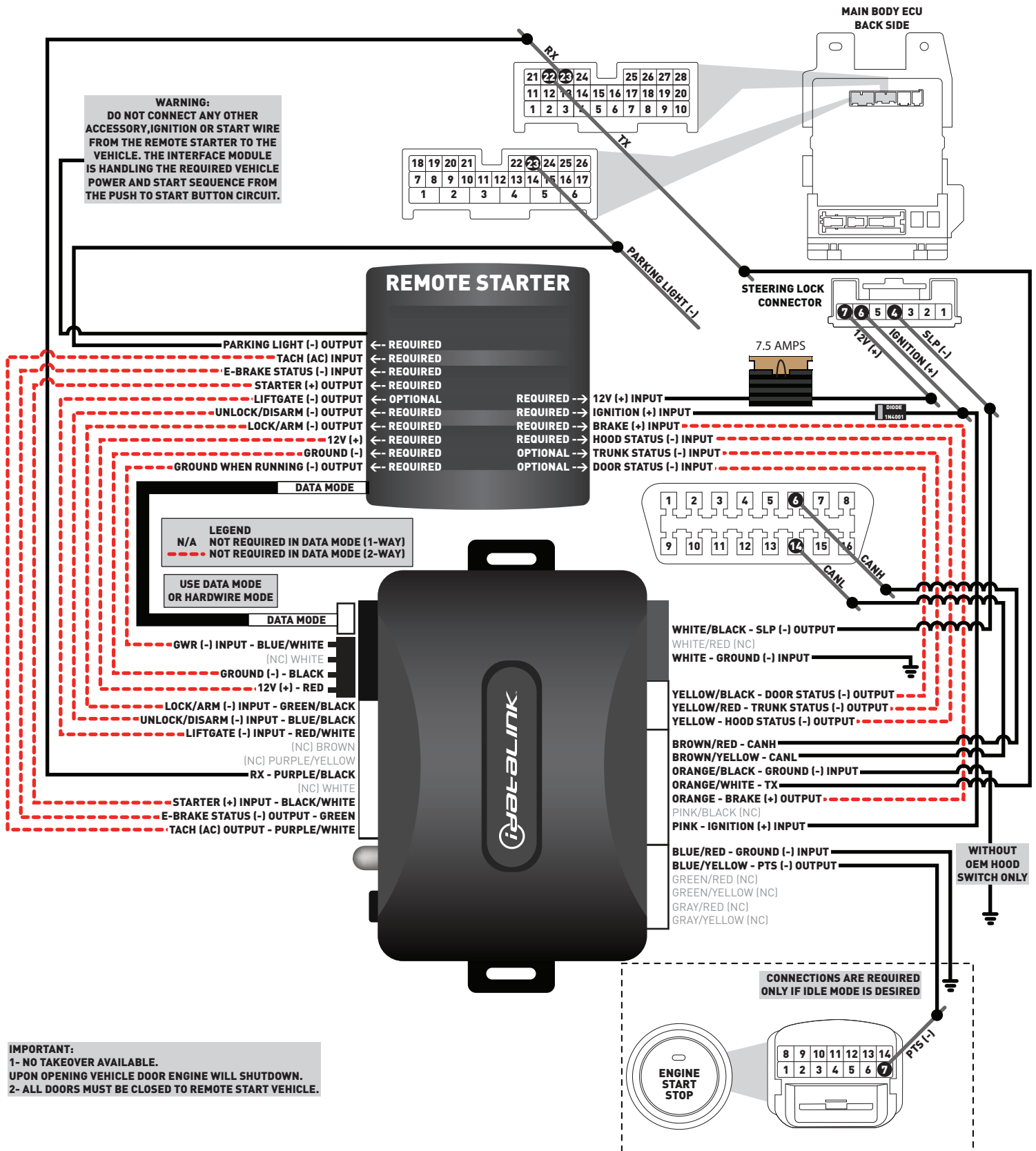
COMPONENT LOCATOR



TYPE 1 - WIRE CROSS REFERENCE CHART - 1 OF 1

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Venza PTS	09-16	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	Purple	(-)	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
			PTS	D13	~	14 pin	07	Blue	(-)	Push to start button	C

TYPE 1 - WIRING DIAGRAM

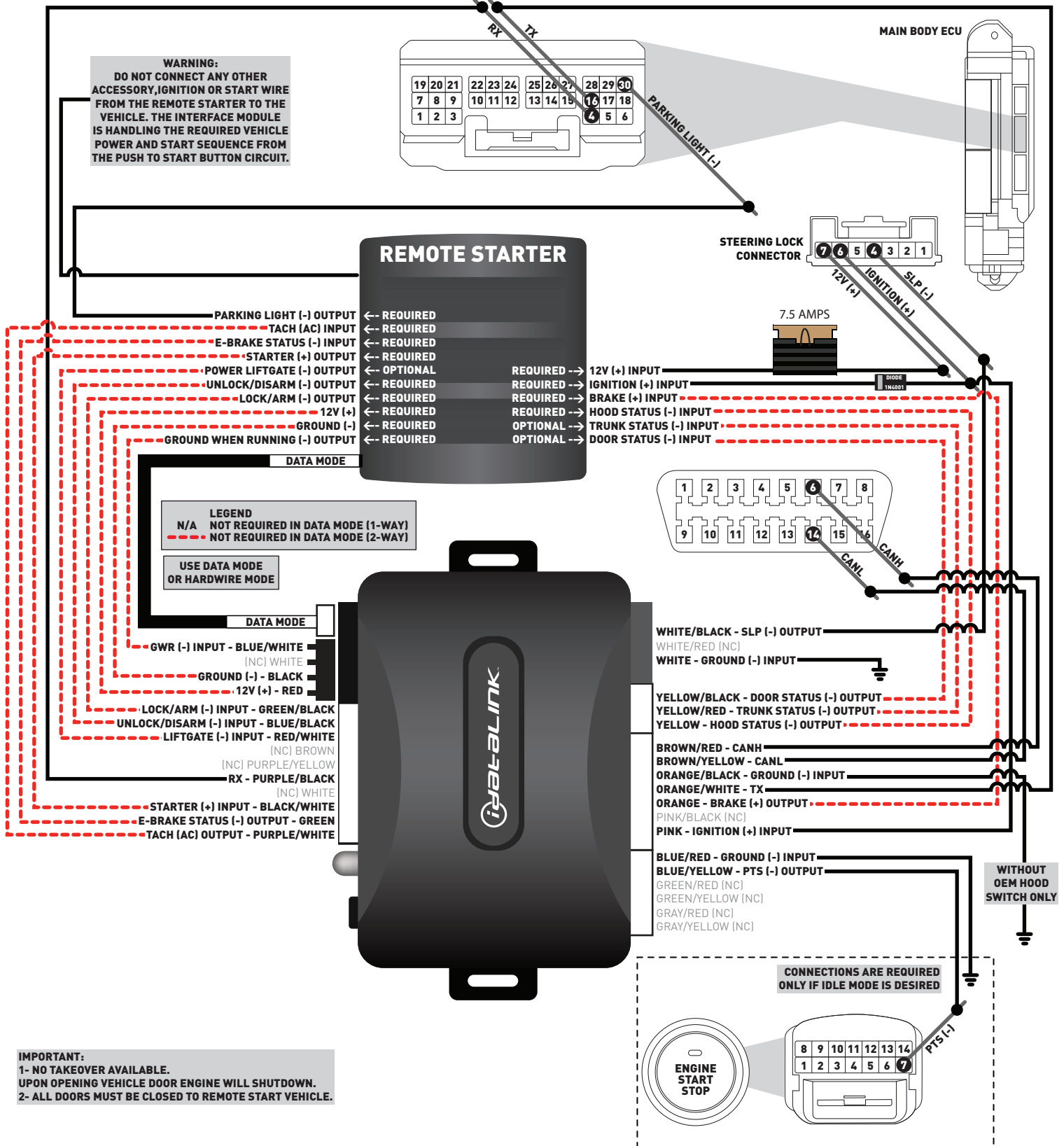


IMPORTANT:
1- NO TAKEOVER AVAILABLE.
UPON OPENING VEHICLE DOOR ENGINE WILL SHUTDOWN.
2- ALL DOORS MUST BE CLOSED TO REMOTE START VEHICLE.

TYPE 2 - WIRE CROSS REFERENCE CHART - 1 OF 1

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
LEXUS	GX460 PTS	10-19	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
			PTS	G24	Black	14 pin	07	LtGreen	(-)	Push to start button	C
	RX350 PTS	10-15	CanH	F17	~	16 pin	06	Purple	[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	Purple	(-)	Main body ECU	A
			PTS	F22	~	14 pin	07	LtGreen	(-)	Push to start button	C
	RX450h PTS	10-15	CanH	F17	~	16 pin	06	Purple	[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	Purple	(-)	Main body ECU	A
			PTS	F22	~	14 pin	07	LtGreen	(-)	Push to start button	C
TOYOTA	4Runner PTS	10-19	CanH	F13	~	16 pin	06	Purple	[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
			PTS	F71	~	14 pin	07	LtGreen	(-)	Push to start button	C

TYPE 2 - WIRING DIAGRAM

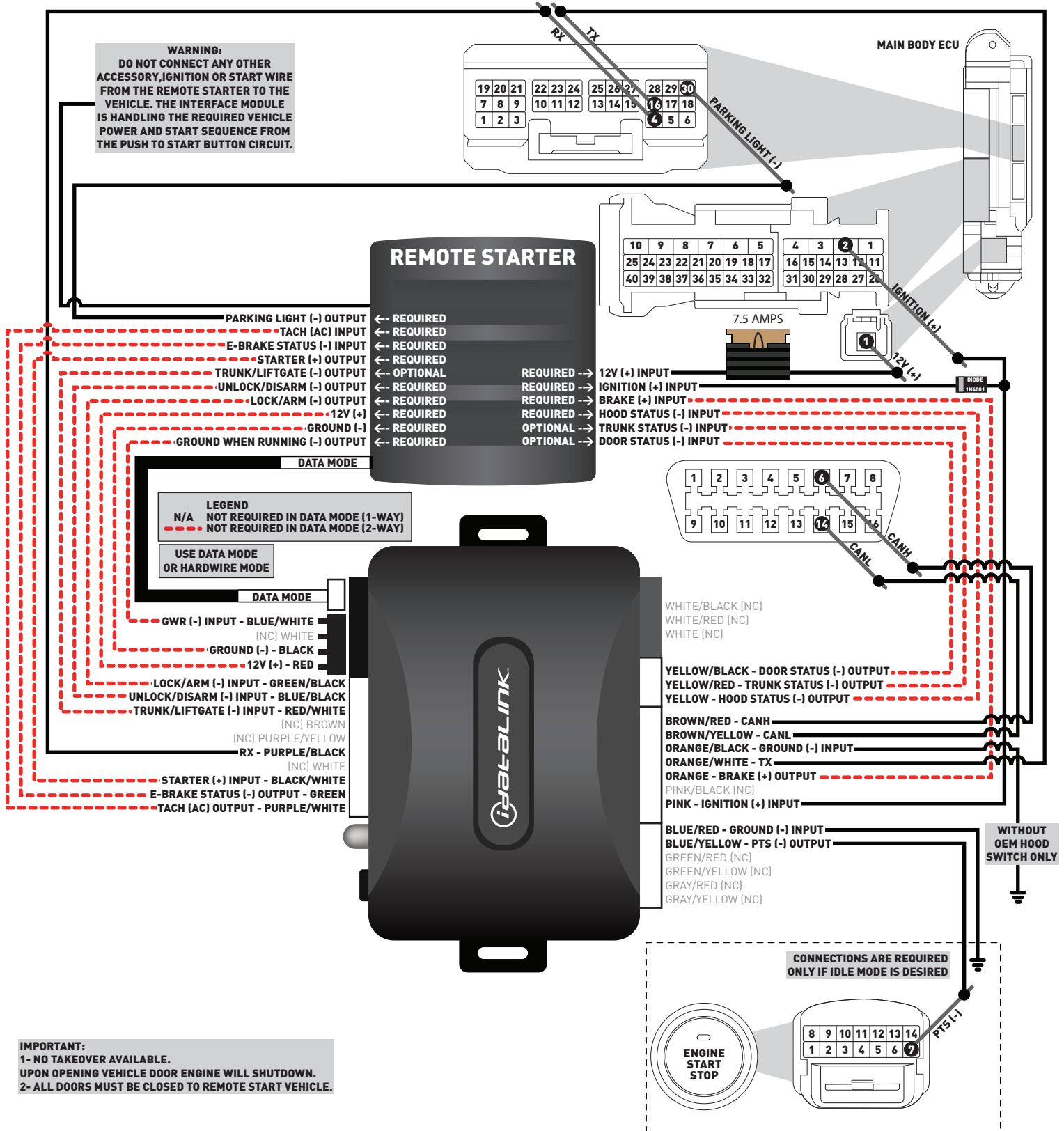


IMPORTANT:
1- NO TAKEOVER AVAILABLE.
UPON OPENING VEHICLE DOOR ENGINE WILL SHUTDOWN.
2- ALL DOORS MUST BE CLOSED TO REMOTE START VEHICLE.

TYPE 3 - WIRE CROSS REFERENCE CHART - 1 OF 1

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
LEXUS	CT200h PTS	11-17	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
			PTS	~	~	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
			PTS	F2	~	14 pin	07	Blue	(-)	Push to start button	C
TOYOTA	Prius PTS	10-15	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	Purple	(DATA)	Main body ECU	A
			Parking Light	L7	~	30 pin	30	Yellow	(-)	Main body ECU	A
			PTS	L43	~	14 pin	07	Black	(-)	Push to start button	C
	Prius V PTS	12-16	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	Red	(+)	Main body ECU	A
			TX	L7	~	30 pin	16	Green	(DATA)	Main body ECU	A
			RX	L7	~	30 pin	04	Purple	(DATA)	Main body ECU	A
			Parking Light	L7	~	30 pin	30	Yellow	(-)	Main body ECU	A
			PTS	L43	~	14 pin	07	Black	(-)	Push to start button	C

TYPE 3 - WIRING DIAGRAM

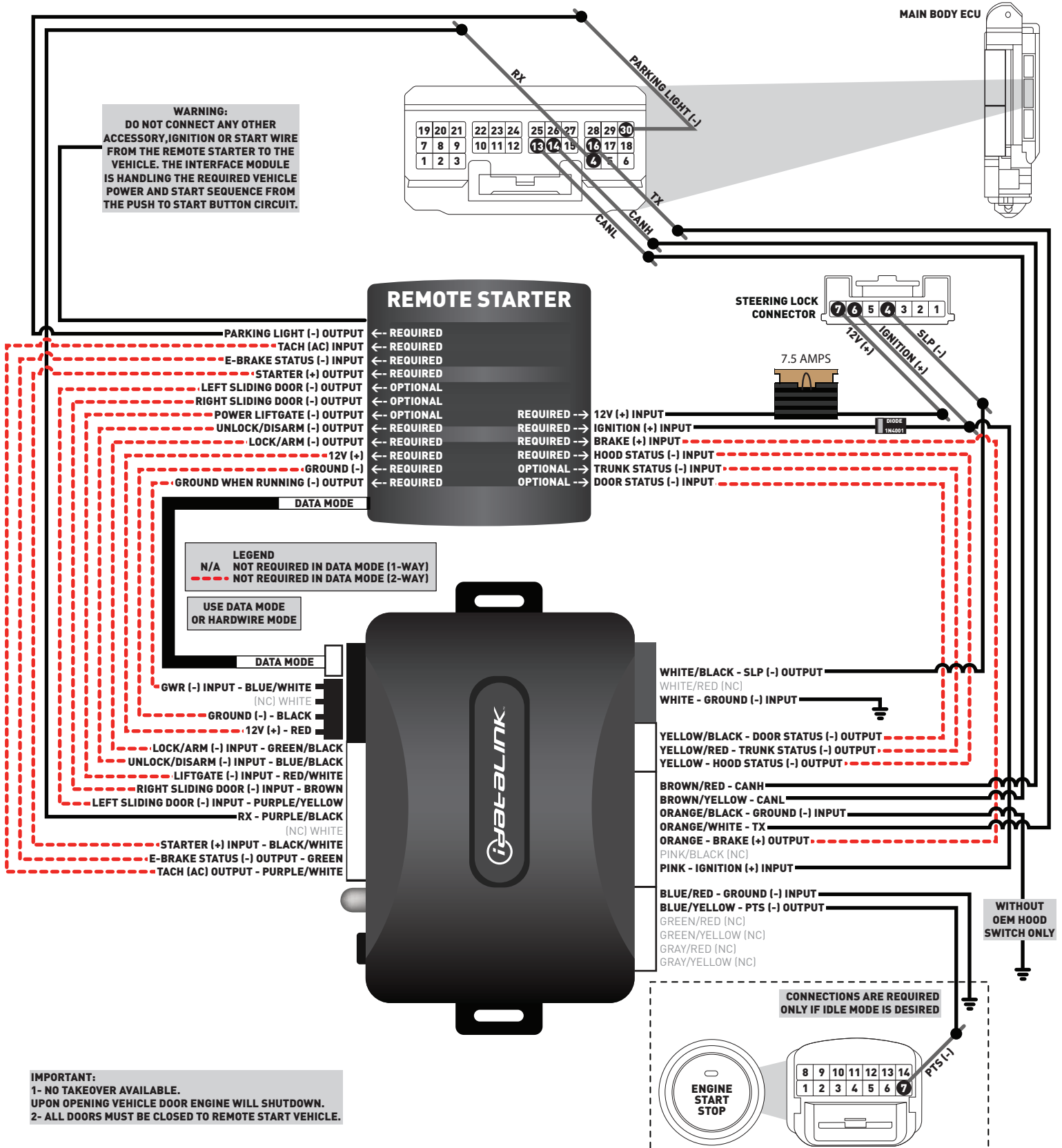


IMPORTANT:
1- NO TAKEOVER AVAILABLE.
UPON OPENING VEHICLE DOOR ENGINE WILL SHUTDOWN.
2- ALL DOORS MUST BE CLOSED TO REMOTE START VEHICLE.

TYPE 4 - WIRE CROSS REFERENCE CHART - 1 OF 1

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Sienna PTS	11-20	CanH	D13	White	30 pin	14	Gray	[DATA]	Main body ECU	A
			CanL	D13	White	30 pin	13	White	[DATA]	Main body ECU	A
			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	White	30 pin	16	Blue	[DATA]	Main body ECU	A
			RX	D13	White	30 pin	04	Black	[DATA]	Main body ECU	A
			Parking Light	D13	White	30 pin	30	Yellow	(-)	Main body ECU	A
			PTS	D33	~	14 pin	07	LtBlue	(-)	Push to start button	C

TYPE 4 - WIRING DIAGRAM

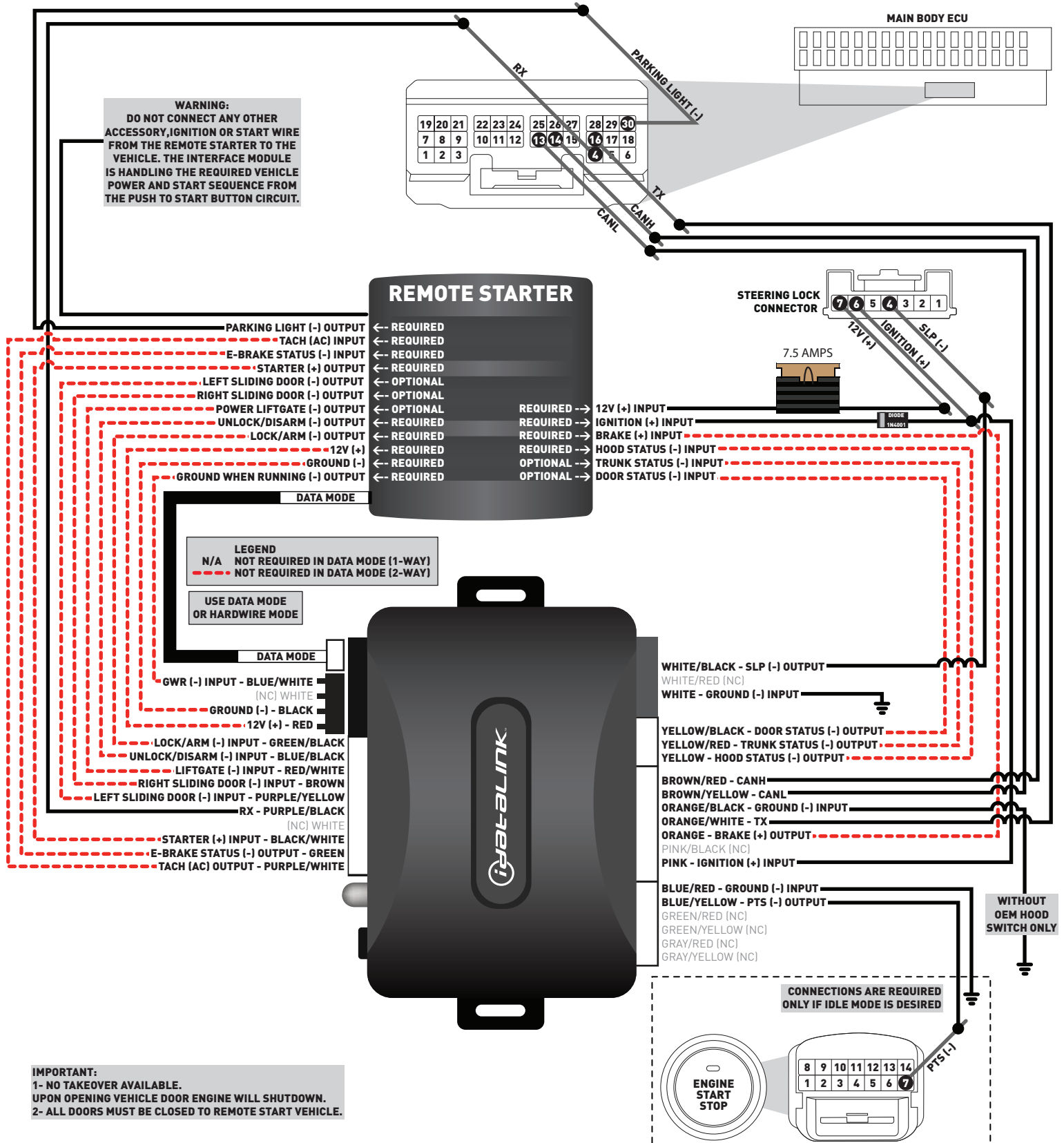


IMPORTANT:
1- NO TAKEOVER AVAILABLE.
UPON OPENING VEHICLE DOOR ENGINE WILL SHUTDOWN.
2- ALL DOORS MUST BE CLOSED TO REMOTE START VEHICLE.

TYPE 5 - WIRE CROSS REFERENCE CHART - 1 OF 1

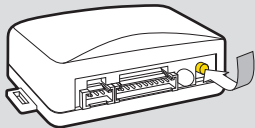
MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
SCION	tC PTS	11-16	CanH	C56	White	30 pin	14	Red	[DATA]	Main body ECU	D
			CanL	C56	White	30 pin	13	White	[DATA]	Main body ECU	D
			12V	C18	Black	07 pin	07	Blue	(+)	Steering lock	B
			Ignition	C18	Black	07 pin	06	Yellow	(+)	Steering lock	B
			SLP	C18	Black	07 pin	04	Green	(-)	Steering lock	B
			TX	C56	White	30 pin	16	Black	[DATA]	Main body ECU	D
			RX	C56	White	30 pin	04	Pink	[DATA]	Main body ECU	D
			Parking Light	C56	White	30 pin	30	Purple or LtBlue	(-)	Main body ECU	D
			PTS	D33	Black	14 pin	07	Yellow	(-)	Push to start button	C

TYPE 5 - WIRING DIAGRAM

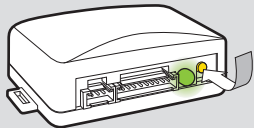


IMPORTANT:
1- NO TAKEOVER AVAILABLE.
UPON OPENING VEHICLE DOOR ENGINE WILL SHUTDOWN.
2- ALL DOORS MUST BE CLOSED TO REMOTE START VEHICLE.

INSTALLATION MODE SELECTION

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

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

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



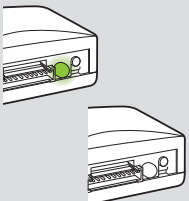
After registration, follow Factory Reset Procedure to change installation mode and restart this procedure.

MODULE PROGRAMMING PROCEDURE

NOTE

- I 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.

IDENTIFY VEHICLE YEAR

1 Locate the Vehicle Identification Number (VIN), identify the 10th character then match it to its corresponding year.

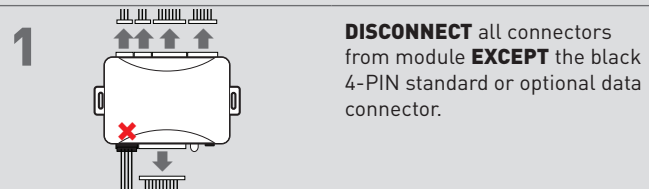


A	1980	L	1990	Y	2000	A	2010	L	2020
B	1981	M	1991	1	2001	B	2011	M	2021
C	1982	N	1992	2	2002	C	2012	N	2022
D	1983	P	1993	3	2003	D	2013	P	2023
E	1984	R	1994	4	2004	E	2014	R	2024
F	1985	S	1995	5	2005	F	2015	S	2025
G	1986	T	1996	6	2006	G	2016	T	2026
H	1987	V	1997	7	2007	H	2017	V	2027
J	1988	W	1998	8	2008	J	2018	W	2028
K	1989	X	1999	9	2009	K	2019	X	2029

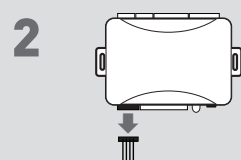
MODULE DIAGNOSTICS

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

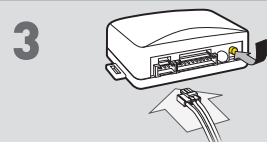
FACTORY RESET PROCEDURE



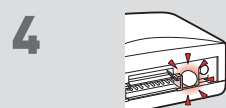
DISCONNECT all connectors from module **EXCEPT** the black 4-PIN standard or optional data connector.



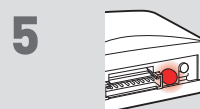
DISCONNECT black 4-PIN standard or optional data connector.



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

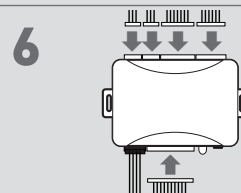


When LED flashes red, **RELEASE** programming button.



LED will turn solid red for 2 seconds.

RESET COMPLETED.



RECONNECT all connectors.

7

Repeat programming procedure.



Failure to follow procedure may result with a DTC or a CHECK ENGINE error message.