



Automotive Data Solutions Inc.

INSTALL GUIDE ADS-AL(DL)-TL6-EN

TL6

AVAILABLE FOR: ADS-AL CA

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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	A/M ALARM CTRL FROM OEM REMOTES	A/M RS CTRL FROM OEM REMOTES	PRIORITY UNLOCK	DOOR LOCK	DOOR UNLOCK	TRUNK/HATCH RELEASE	TACHOMETER OUTPUT	BRAKE PEDAL STATUS OUTPUT	E-BRAKE OUTPUT	DOOR STATUS OUTPUT	TRUNK STATUS OUTPUT
LEXUS	ES300h PTS**	13-15	3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	ES300h PTS**	16-18	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	ES350 PTS**	13-15	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	ES350 PTS**	16-18	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	GS200t PTS**	16-17	12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	GS350 PTS**	13-15	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	GS350 PTS**	16-19	12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	GS450h PTS**	13-15	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	GS450h PTS**	16-18	12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TOYOTA	Avalon PTS	13-15	4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Avalon PTS	16-18	17	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Camry PTS	12-17	5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Camry Hybrid PTS	12-17	5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Corolla PTS AT	14-16	7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Corolla PTS AT	17-19	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Corolla PTS MT	17-19	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Corolla PTS MT	14-16	8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Prius C PTS	12-15	5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Prius C PTS	16-19	14	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Prius V PTS	17-18	13	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Rav4 Hybrid PTS	16-18	10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Rav4 PTS	13-15	6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Rav4 PTS	16-18	9	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

*Available only if vehicle is equipped with factory hood switch.
 **Read "WARNING: Door Lock Synchronization"

WARNING: DOOR LOCK SYNCHRONIZATION**IMPORTANT**

- I The door lock signal is encrypted on select models. In order for the bypass to operate properly, it must be synchronized with that encrypted signal. However, when the vehicle is driven, data is sent along the bus that desynchronizes the bypass with the encryption.

To regain synchronization once the engine is shut off, the bypass must see the factory keyless codes (OEM remote or proximity lock/unlock codes). This solution will resynchronize automatically upon seeing the first factory keyless code and will operate normally (both convenience and immobilizer bypass/remote starter functionality).

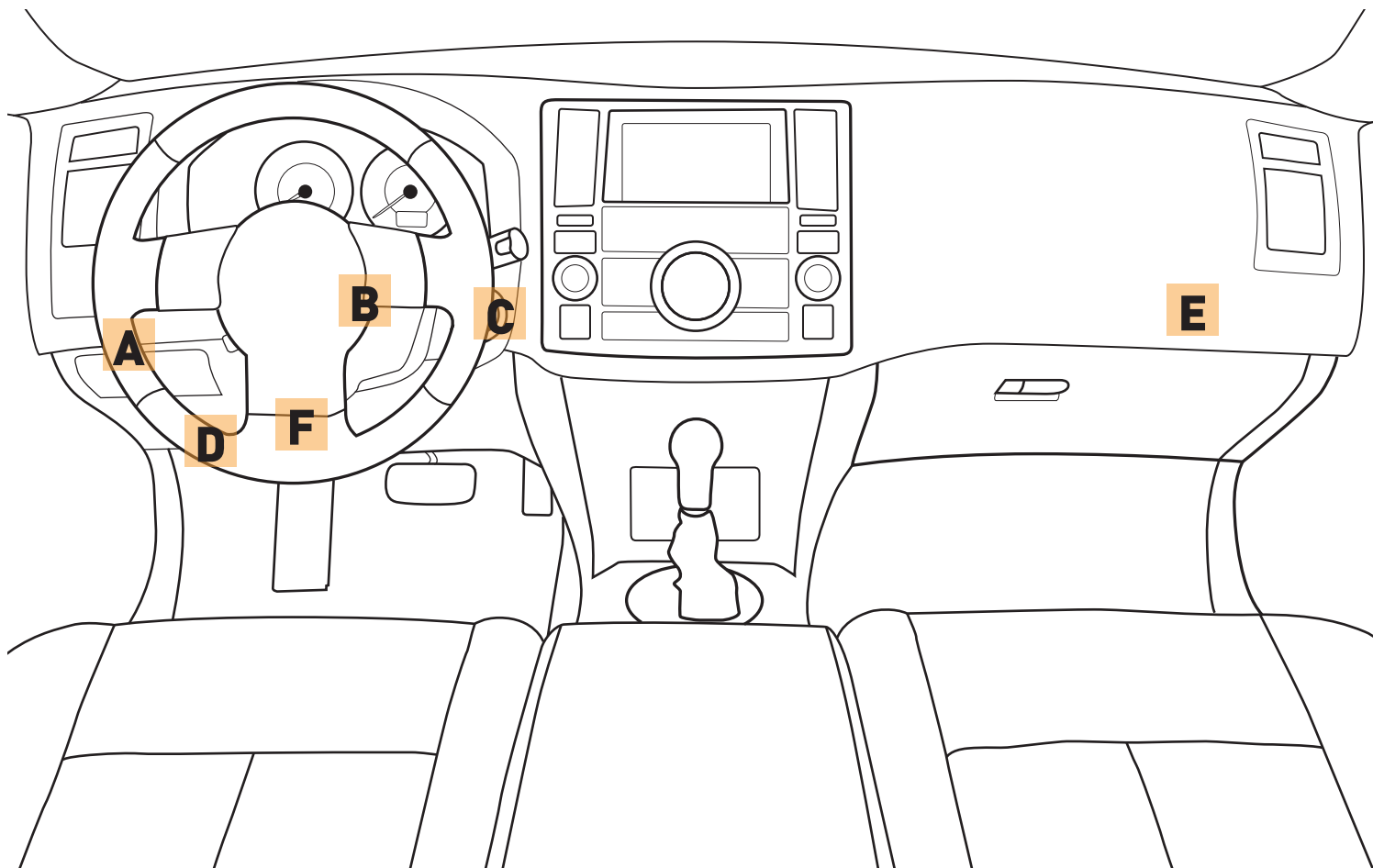
Conversely, if the vehicle is driven and the factory keyless system is not used to lock or unlock, the aftermarket remote will not be able to lock or unlock until the bypass receives factory keyless code at least once as described above.

If one does not intend to use factory keyless after driving the vehicle, additional wiring is required to ensure the bypass remains synchronized with the encryption. Remote starter door locks must be hardwired (see wiring diagram). This will permit lock/unlock with the aftermarket remote at all times without necessitating the use of the factory keyless system.

Please note that this firmware also supports "External Remote Control Arm and Disarm" which means that the bypass can arm and disarm the aftermarket alarm using OEM Keyless when paired with most popular remote starter brands. When used exclusively in this manner (i.e. without aftermarket remote controls), hardwired remote starter door locks (as described above) become unnecessary.

Finally, as factory keyless operates normally during remote start with this solution and take-over is not supported, a one-button remote control is a very good choice for these vehicles in order to prevent any possible user issues.

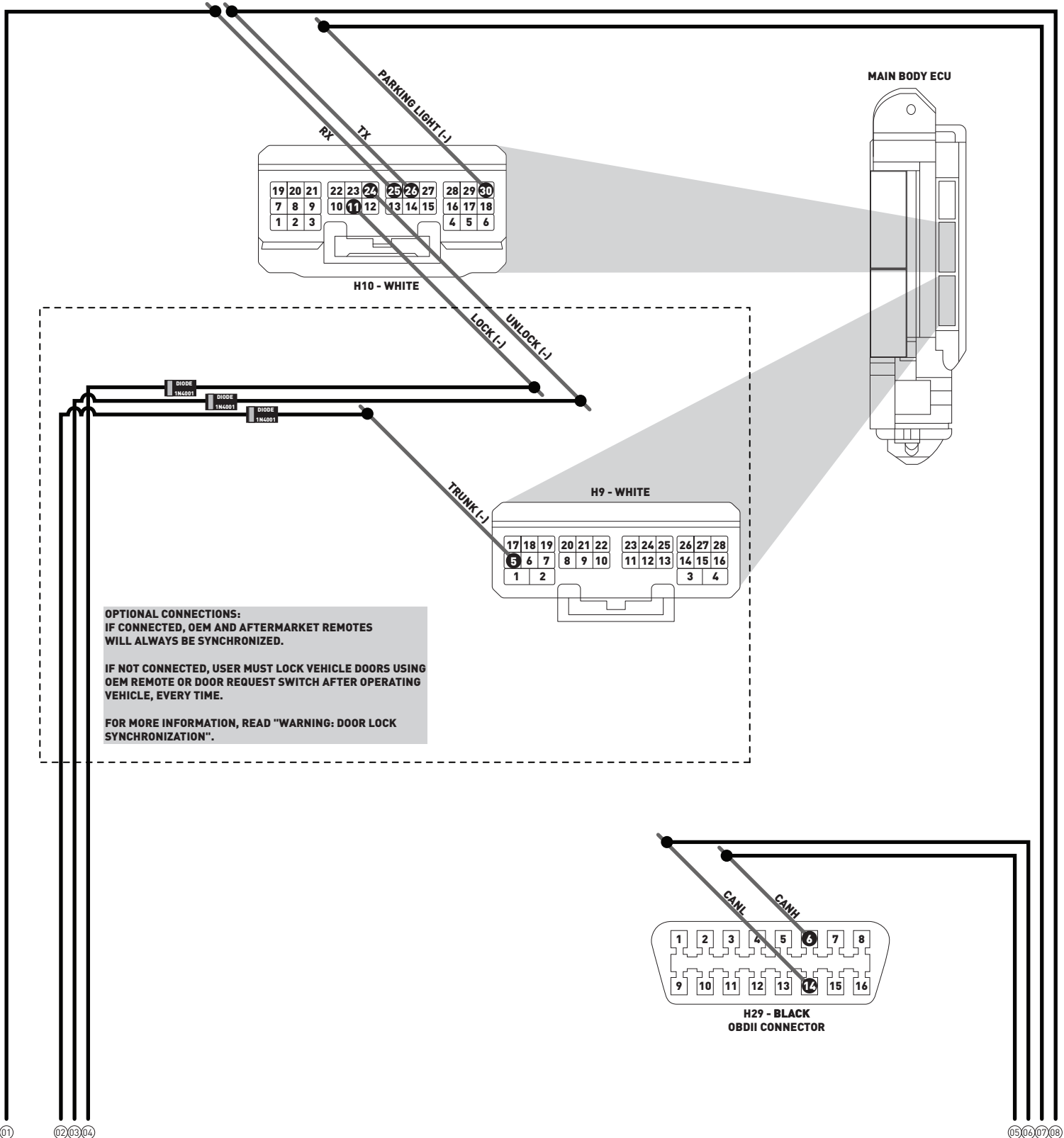
COMPONENT LOCATOR



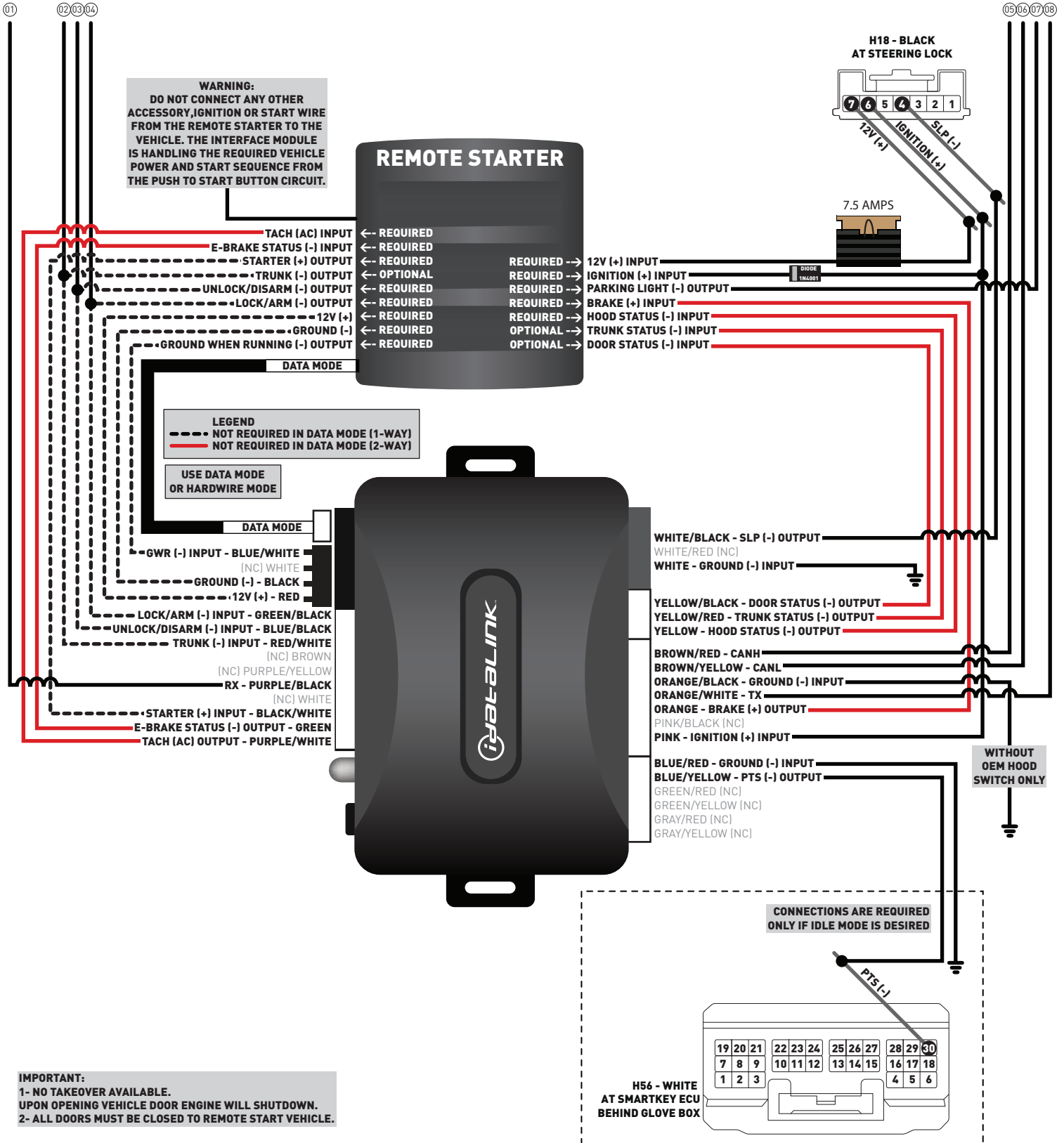
TYPE 1 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
LEXUS	ES350 PTS	13-15	CanH	H29	Black	16 pin	06	Blue	(DATA)	OBDDII	D
			CanL	H29	Black	16 pin	14	White	(DATA)	OBDDII	D
			12V	H18	Black	07 pin	07	Black	(+)	Steering lock	B
			Ignition	H18	Black	07 pin	06	LtGreen	(+)	Steering lock	B
			SLP	H18	Black	07 pin	04	Pink	(-)	Steering lock	B
			TX	H10	White	30 pin	26	Red	(DATA)	Main body ECU	A
			RX	H10	White	30 pin	25	Blue	(DATA)	Main body ECU	A
			Parking Light	H10	White	30 pin	30	White	(-)	Main body ECU	A
			PTS	H56	White	30 pin	30	Purple	(-)	Certification ECU, behind glove box	E
			Lock	H10	White	30 pin	11	Red	(-)	Main body ECU	A
			Unlock	H10	White	30 pin	24	Gray	(-)	Main body ECU	A
			Trunk Release	H9	White	28 pin	05	Red	(-)	Main body ECU	A

TYPE 1 - WIRING DIAGRAM - 1 OF 2



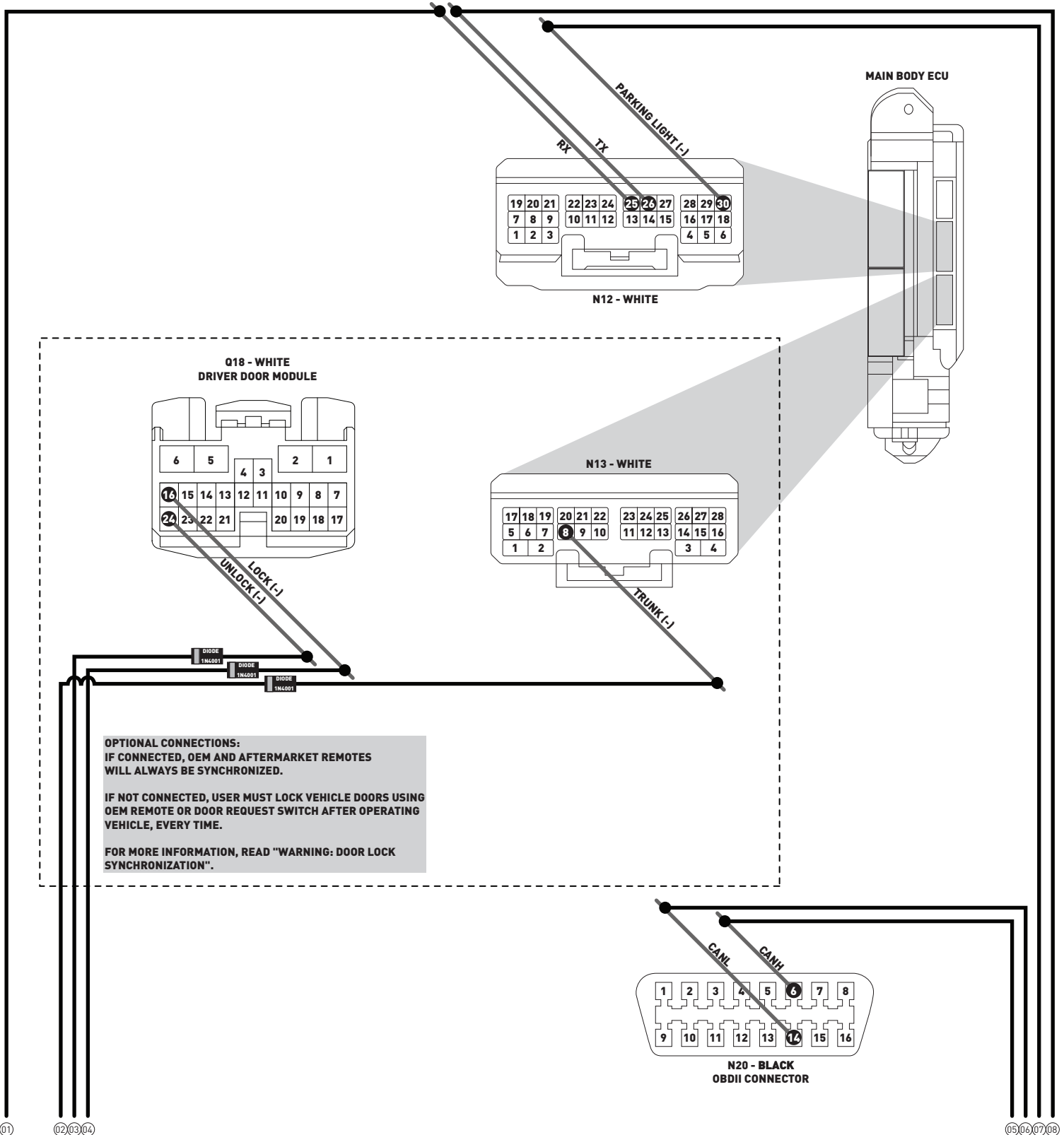
TYPE 1 - WIRING DIAGRAM - 2 OF 2



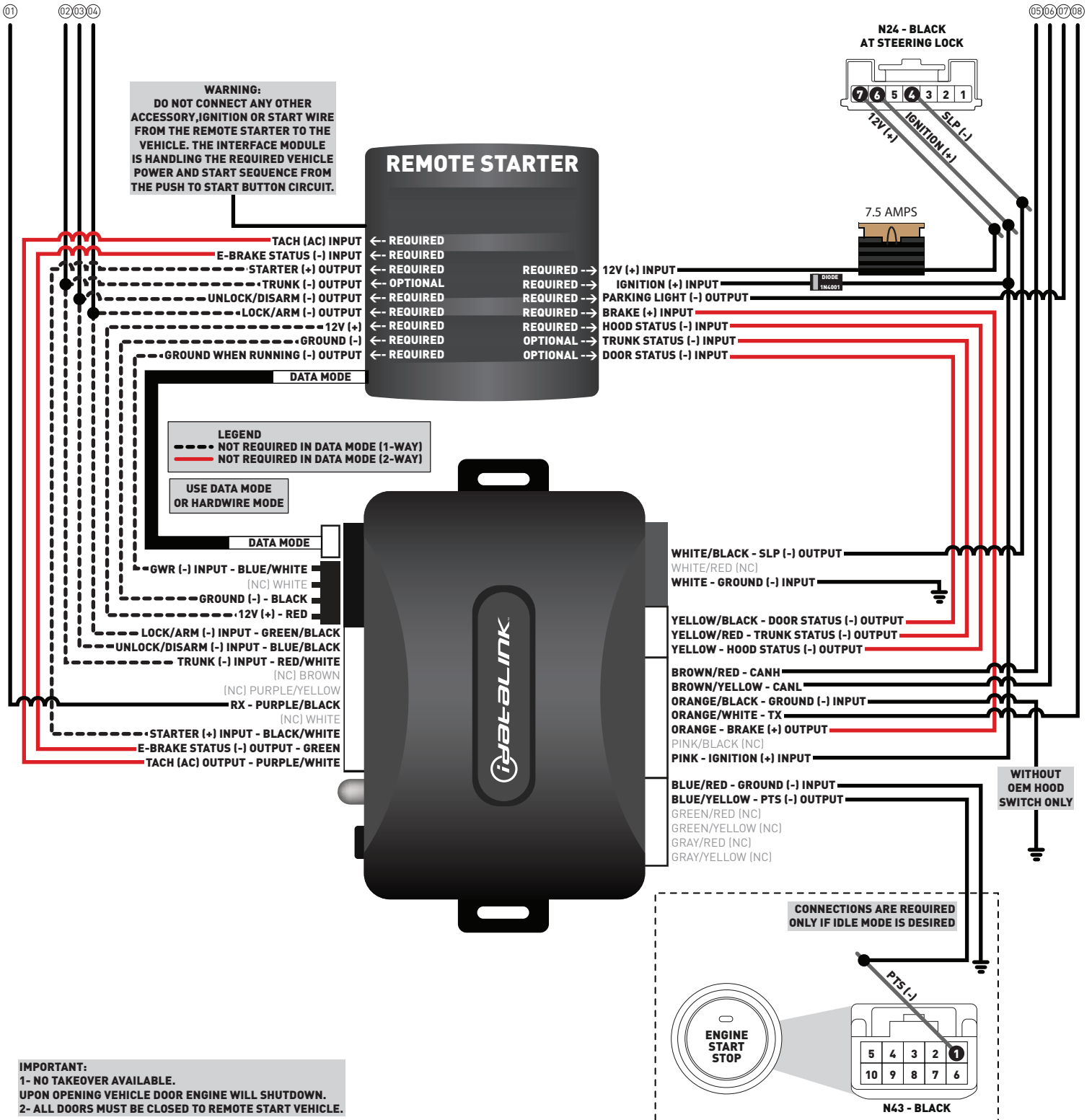
TYPE 2 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
LEXUS	GS350 / GS450h PTS	13-15	CanH	N20	Black	16 pin	06	Green	(DATA)	OBDII	D
			CanL	N20	Black	16 pin	14	White	(DATA)	OBDII	D
			12V	N24	Black	07 pin	07	Blue	(+)	Steering lock	B
			Ignition	N24	Black	07 pin	06	Black	(+)	Steering lock	B
			SLP	N24	Black	07 pin	04	Blue	(-)	Steering lock	B
			TX	N12	White	30 pin	26	White	(DATA)	Main body ECU	A
			RX	N12	White	30 pin	25	Black	(DATA)	Main body ECU	A
			Parking Light	N12	White	30 pin	30	Black	(-)	Main body ECU	A
			PTS	N43	Black	10 pin	01	Green	(-)	PTS button	C
			Lock	Q18	White	24 pin	16	Gray	(-)	Driver door module	~
			Unlock	Q18	White	24 pin	24	Purple	(-)	Driver door module	~
			Trunk Release	N13	White	28 pin	08	Yellow	(-)	Main body ECU	A

TYPE 2 - WIRING DIAGRAM - 1 OF 2



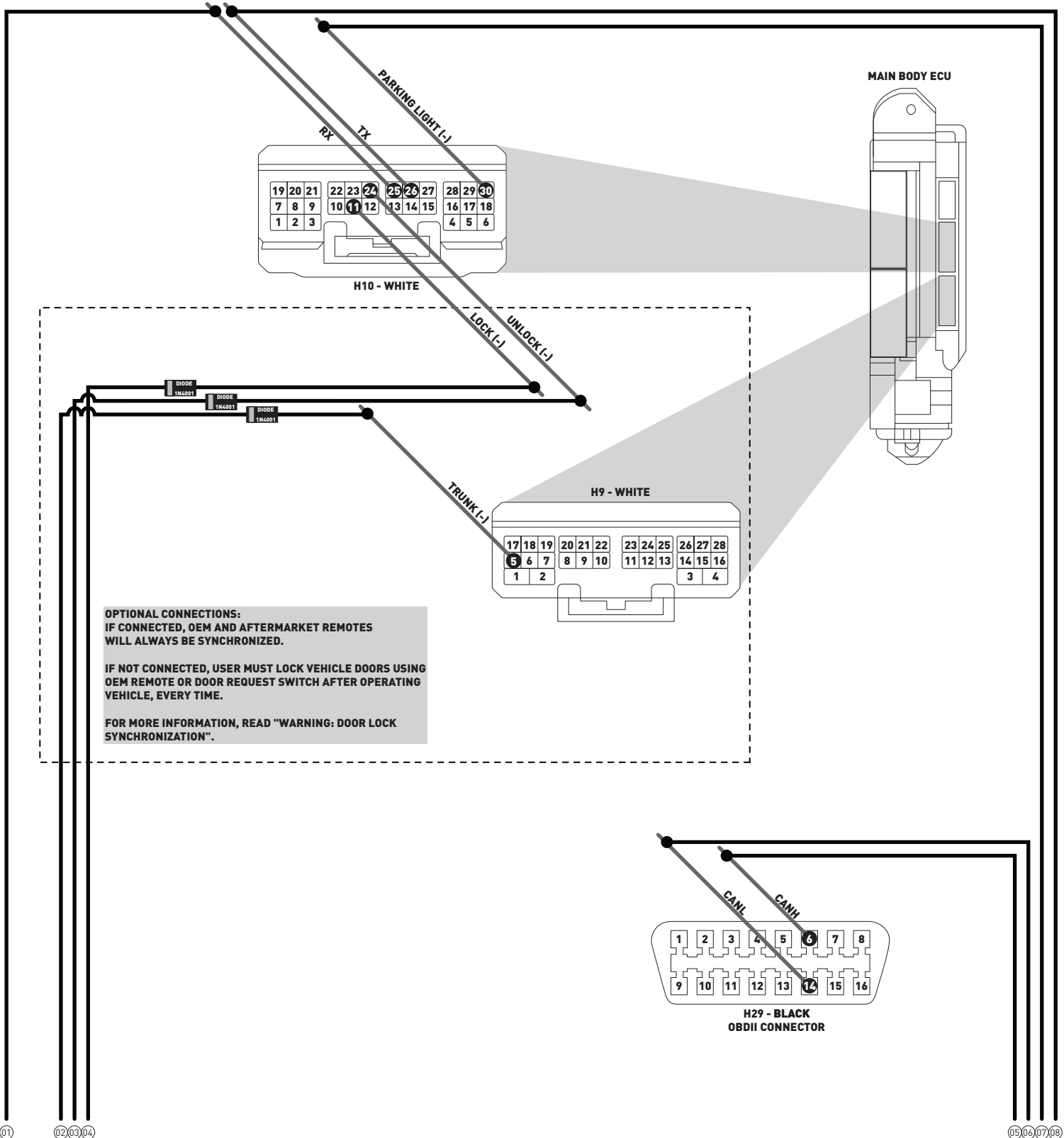
TYPE 2 - WIRING DIAGRAM - 2 OF 2



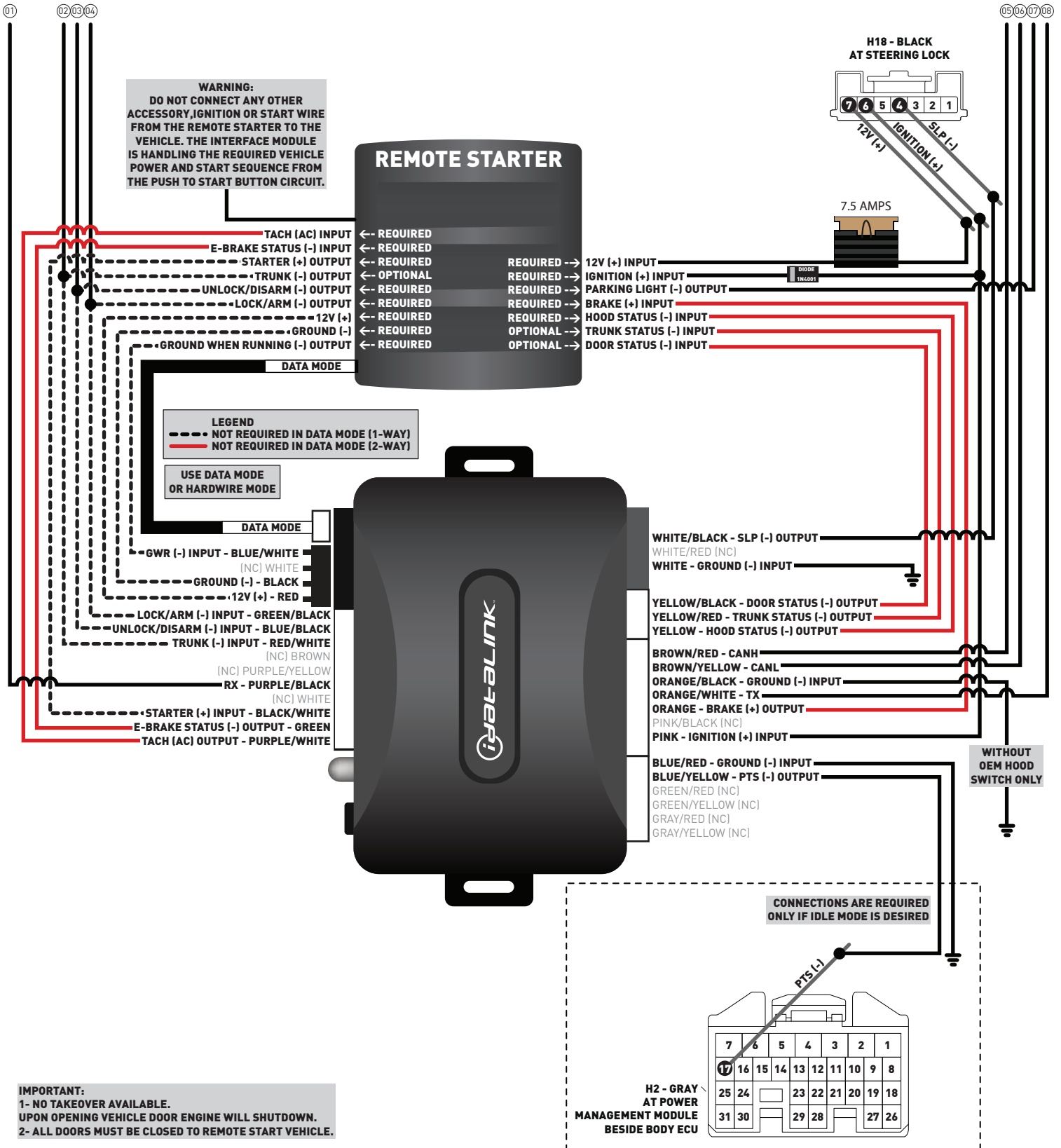
TYPE 3 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
LEXUS	ES300h PTS	13-15	CanH	H29	Black	16 pin	06	Blue	(DATA)	OBDII	D
			CanL	H29	Black	16 pin	14	White	(DATA)	OBDII	D
			12V	H18	Black	07 pin	07	Black	(+)	Steering lock	B
			Ignition	H18	Black	07 pin	06	LtGreen	(+)	Steering lock	B
			SLP	H18	Black	07 pin	04	Pink	(-)	Steering lock	B
			TX	H10	White	30 pin	26	Red	(DATA)	Main body ECU	A
			RX	H10	White	30 pin	25	Blue	(DATA)	Main body ECU	A
			Parking Light	H10	White	30 pin	30	White	(-)	Main body ECU	A
			PTS	H2	Gray	31 pin	17	Purple	(-)	Power management module	A
			Lock	H10	White	30 pin	11	Red	(-)	Main body ECU	A
			Unlock	H10	White	30 pin	24	Gray	(-)	Main body ECU	A
			Trunk Release	H9	White	28 pin	05	Red	(-)	Main body ECU	A

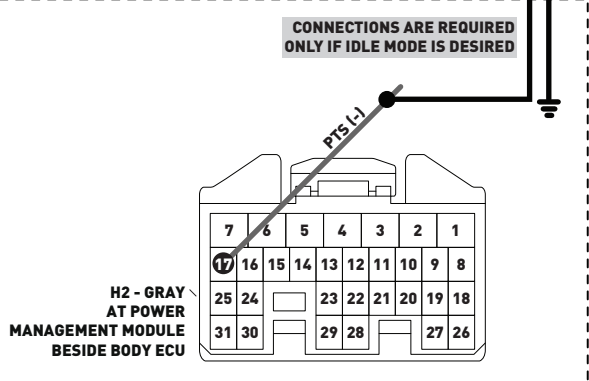
TYPE 3 - WIRING DIAGRAM - 1 OF 2



TYPE 3 - WIRING DIAGRAM - 2 OF 2



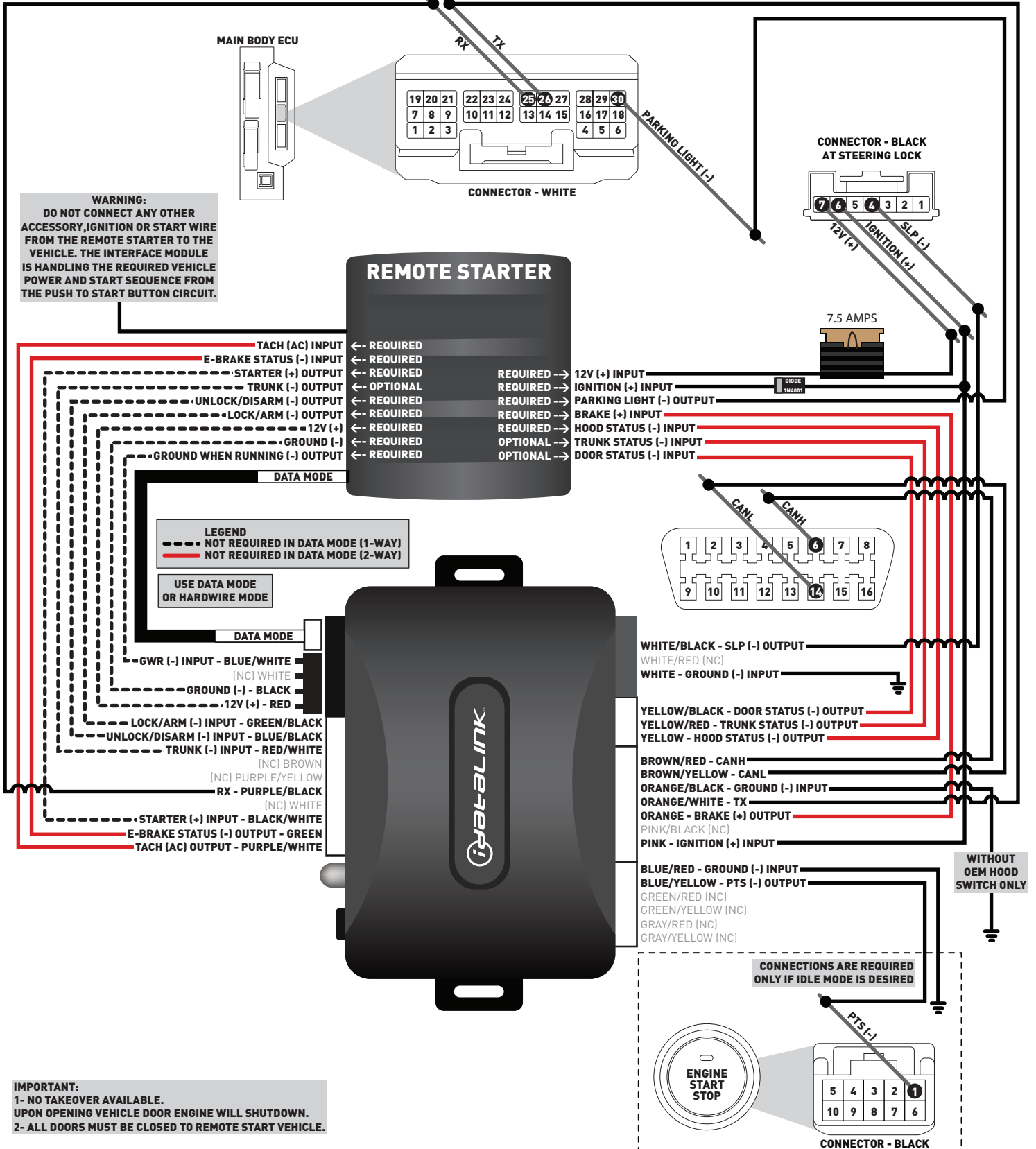
IMPORTANT:
 1- NO TAKEOVER AVAILABLE.
 UPON OPENING VEHICLE DOOR ENGINE WILL SHUTDOWN.
 2- ALL DOORS MUST BE CLOSED TO REMOTE START VEHICLE.



TYPE 4 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Avalon PTS	13-15	CanH	N20	Black	16 pin	06	Blue	(DATA)	OBDII	D
			CanL	N20	Black	16 pin	14	White	(DATA)	OBDII	D
			12V	N24	Black	07 pin	07	Purple	(+)	Steering lock	B
			Ignition	N24	Black	07 pin	06	Black	(+)	Steering lock	B
			SLP	N24	Black	07 pin	04	Green	(-)	Steering lock	B
			TX	N12	White	30 pin	26	LtGreen	(DATA)	Main body ECU	A
			RX	N12	White	30 pin	25	Brown	(DATA)	Main body ECU	A
			Parking Light	N12	White	30 pin	30	Red	(-)	Main body ECU	A
			PTS	N43	Black	10 pin	01	Purple	(-)	PTS button	C

TYPE 4 - WIRING DIAGRAM - 1 OF 1

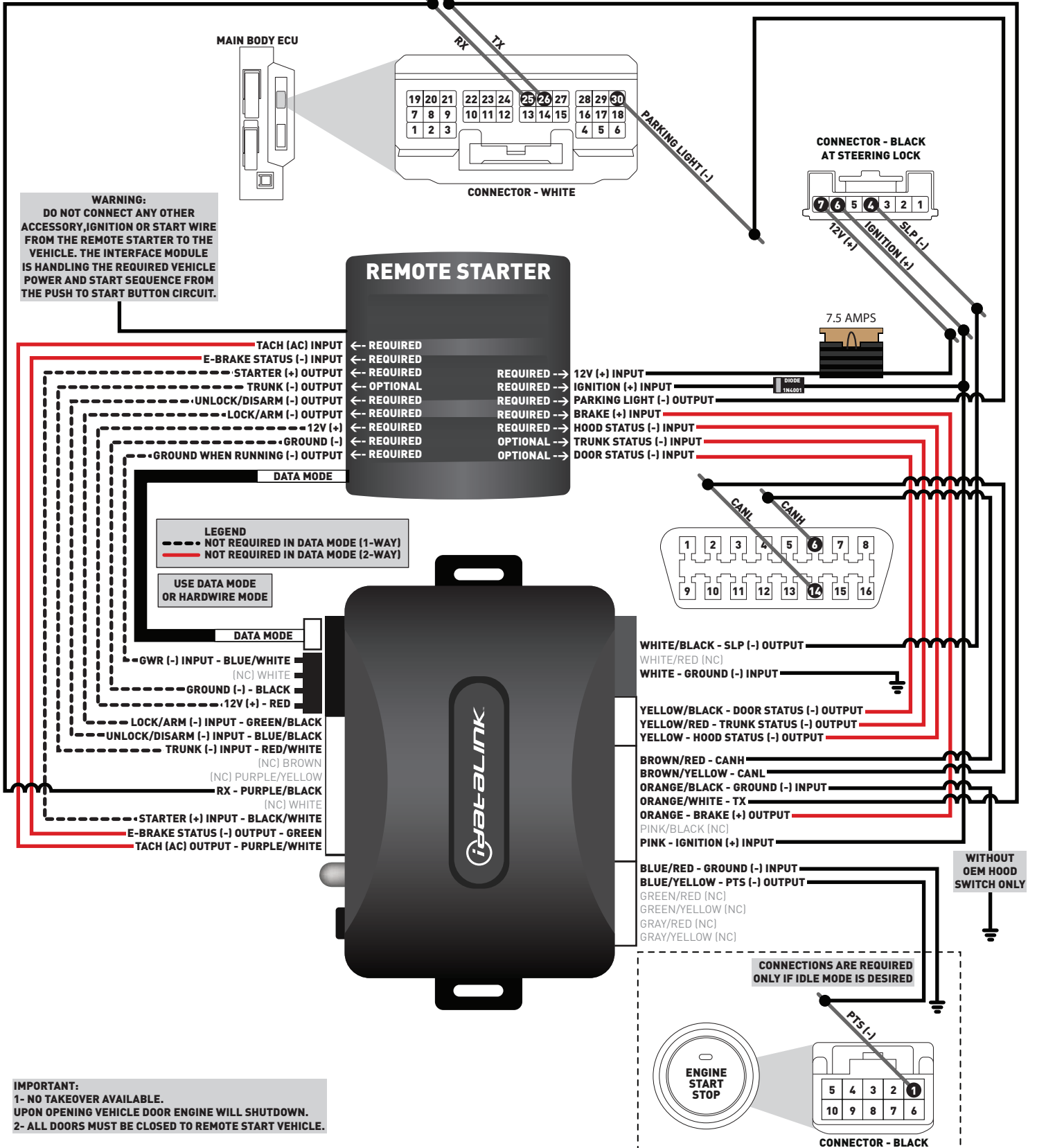


IMPORTANT:
 1- NO TAKEOVER AVAILABLE.
 UPON OPENING VEHICLE DOOR ENGINE WILL SHUTDOWN.
 2- ALL DOORS MUST BE CLOSED TO REMOTE START VEHICLE.

TYPE 5 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Camry / Camry Hybrid PTS	12-17	CanH	I39	White	16 pin	06	Blue	(DATA)	OBDII	D
			CanL	I39	White	16 pin	14	White	(DATA)	OBDII	D
			12V	I24	Black	07 pin	07	Black	(+)	Steering lock	B
			Ignition	I24	Black	07 pin	06	LtGreen	(+)	Steering lock	B
			SLP	I24	Black	07 pin	04	Pink	(-)	Steering lock	B
			TX	I13	White	30 pin	26	Red	(DATA)	Main body ECU	A
			RX	I13	White	30 pin	25	Green	(DATA)	Main body ECU	A
			Parking Light	I13	White	30 pin	30	Black	(-)	Main body ECU	A
	PTS	I58	Black	10 pin	01	Purple	(-)	PTS button	C		
	Prius C PTS	12-15	CanH	G4	Black	16 pin	06	Gray	(DATA)	OBDII	D
			CanL	G4	Black	16 pin	14	White	(DATA)	OBDII	D
			12V	G50	Black	07 pin	07	Gray	(+)	Steering lock	B
			Ignition	G50	Black	07 pin	06	LtBlue	(+)	Steering lock	B
			SLP	G50	Black	07 pin	04	Pink	(-)	Steering lock	B
			TX	~	White	30 pin	26	Red	(DATA)	Main body ECU	A
			RX	~	White	30 pin	25	Black	(DATA)	Main body ECU	A
Parking Light			G59	White	30 pin	30	LtBlue	(-)	Main body ECU	A	
PTS	G48	Black	10 pin	01	LtBlue	(-)	PTS button	C			

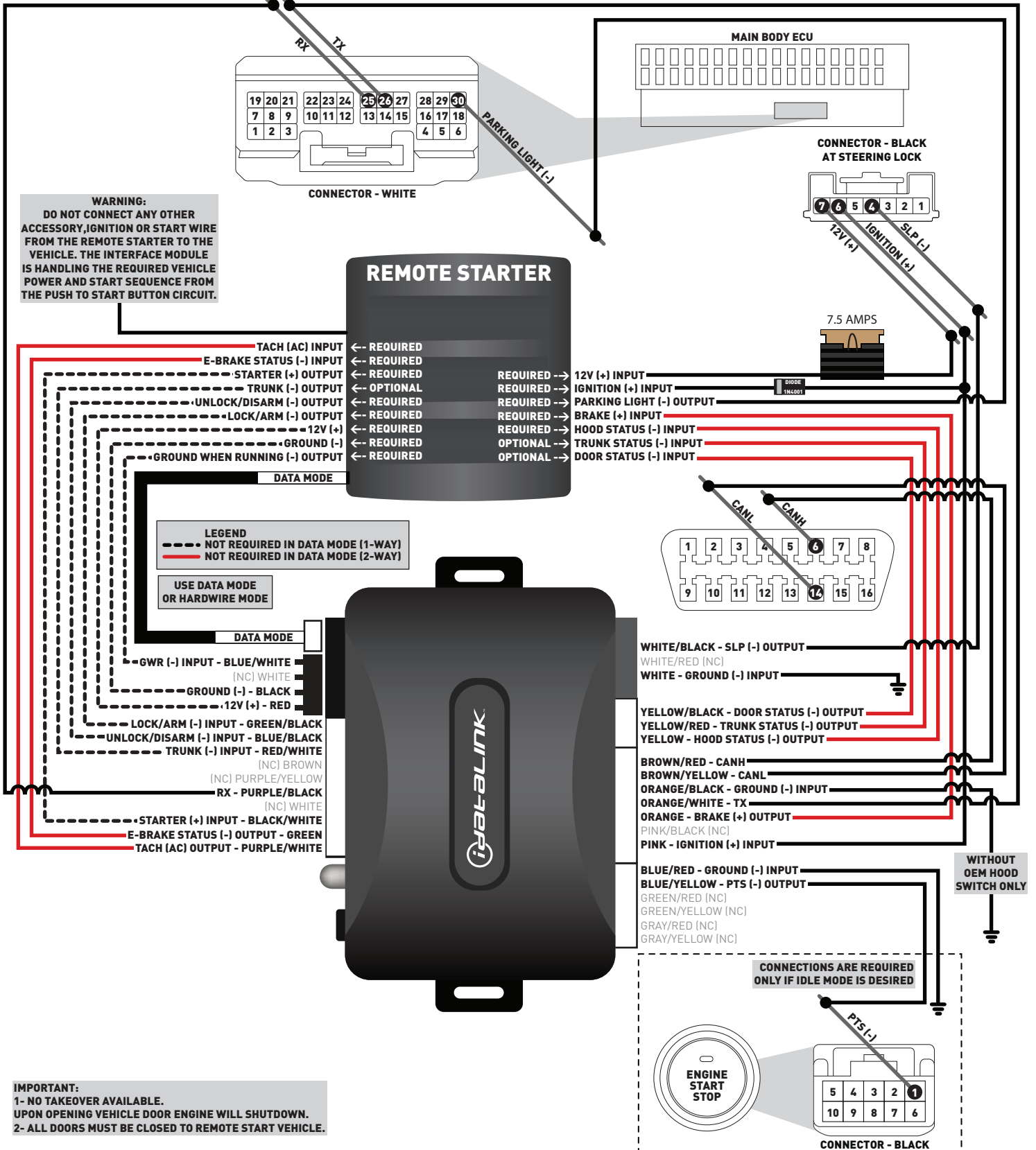
TYPE 5 - WIRING DIAGRAM - 1 OF 1



TYPE 6 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Rav4 PTS	13-15	CanH	I39	White	16 pin	06	Black	(DATA)	OBDII	D
			CanL	I39	White	16 pin	14	White	(DATA)	OBDII	D
			12V	I24	Black	07 pin	07	Blue	(+)	Steering lock	B
			Ignition	I24	Black	07 pin	06	Pink	(+)	Steering lock	B
			SLP	I24	Black	07 pin	04	Green	(-)	Steering lock	B
			TX	I13	White	30 pin	26	Red	(DATA)	Main body ECU, bottom of fusebox	A
			RX	I13	White	30 pin	25	Blue	(DATA)	Main body ECU, bottom of fusebox	A
			Parking Light	I13	White	30 pin	30	White	(-)	Main body ECU, bottom of fusebox	A
			PTS	I58	Black	10 pin	01	DkGreen	(-)	PTS button	C

TYPE 6 - WIRING DIAGRAM - 1 OF 1

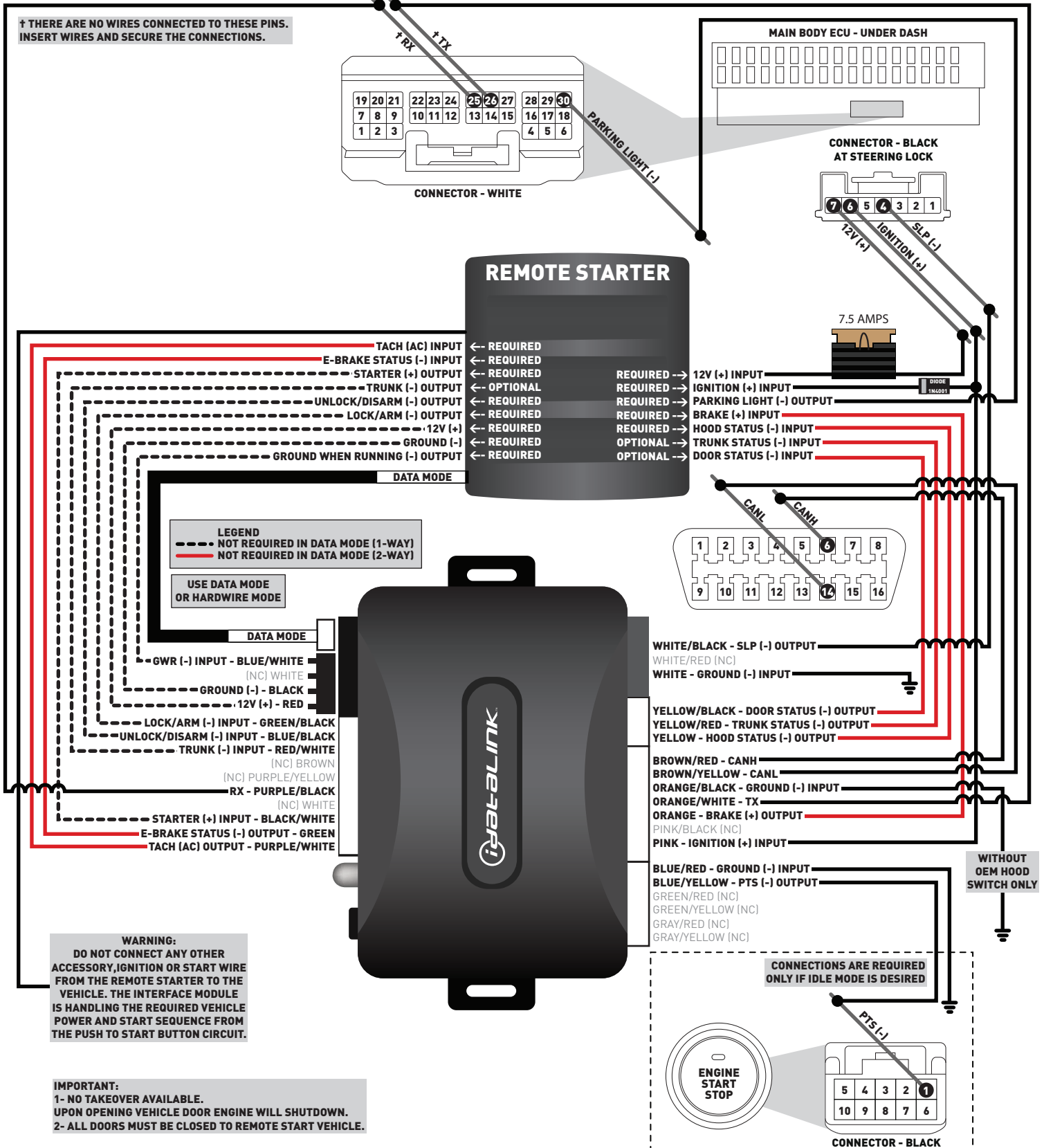


IMPORTANT:
 1- NO TAKEOVER AVAILABLE.
 UPON OPENING VEHICLE DOOR ENGINE WILL SHUTDOWN.
 2- ALL DOORS MUST BE CLOSED TO REMOTE START VEHICLE.

TYPE 7 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Corolla PTS AT	14-16	CanH	I39	White	16 pin	06	Red	(DATA)	OBDII	D
			CanL	I39	White	16 pin	14	White	(DATA)	OBDII	D
			12V	I24	Black	07 pin	07	Blue	(+)	Steering lock	B
			Ignition	I24	Black	07 pin	06	Gray	(+)	Steering lock	B
			SLP	I24	Black	07 pin	04	Green	(-)	Steering lock	B
			TX	I13	White	30 pin	26	Empty	(DATA)	Main body ECU, bottom of fusebox	A
			RX	I13	White	30 pin	25	Empty	(DATA)	Main body ECU, bottom of fusebox	A
			Parking Light	I13	White	30 pin	30	White	(-)	Main body ECU, bottom of fusebox	A
			PTS	I58	Black	10 pin	01	Black	(-)	PTS button	C

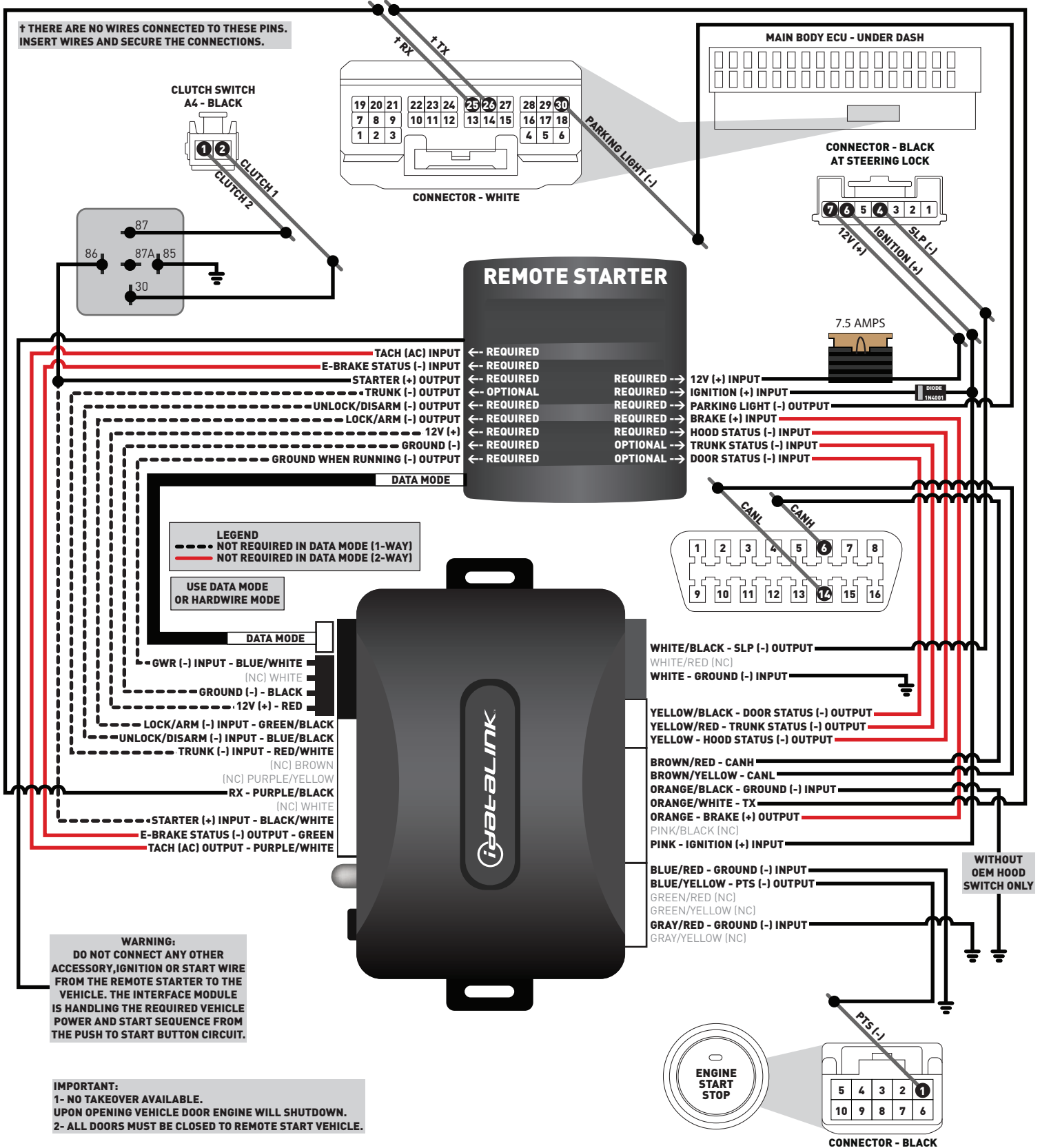
TYPE 7 - WIRING DIAGRAM - 1 OF 1



TYPE 8 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Corolla PTS MT	14-16	Canh	I39	White	16 pin	06	Red	(DATA)	OBDII	D
			CanL	I39	White	16 pin	14	White	(DATA)	OBDII	D
			12V	I24	Black	07 pin	07	Blue	(+)	Steering lock	B
			Ignition	I24	Black	07 pin	06	Gray	(+)	Steering lock	B
			SLP	I24	Black	07 pin	04	Green	(-)	Steering lock	B
			TX	I13	White	30 pin	26	Empty	(DATA)	Main body ECU, Bottom of fusebox	A
			RX	I13	White	30 pin	25	Empty	(DATA)	Main body ECU, Bottom of fusebox	A
			Parking Light	I13	White	30 pin	30	White	(-)	Main body ECU, Bottom of fusebox	A
			PTS	I58	Black	10 pin	01	Black	(-)	PTS button	C
			Clutch 1	A4	Black	02 pin	02	~	~	Clutch switch	~
			Clutch 2	A4	Black	02 pin	01	Green	(+)	Clutch switch	~

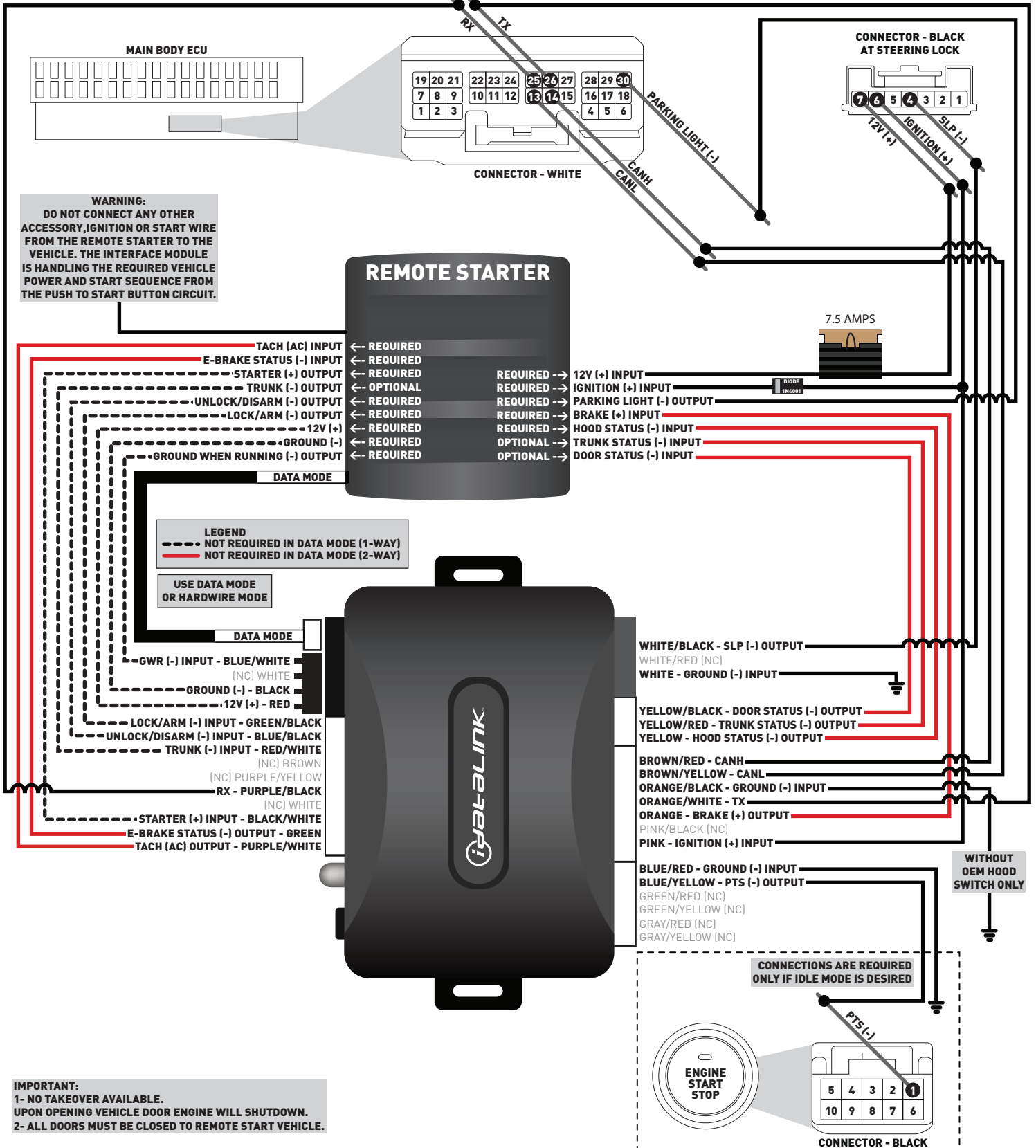
TYPE 8 - WIRING DIAGRAM - 1 OF 1



TYPE 9 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Rav4 PTS	16-18	CanH	I13	White	30 pin	14	Green	(DATA)	Main body ECU, bottom of fusebox	A
			CanL	I13	White	30 pin	13	White	(DATA)	Main body ECU, bottom of fusebox	A
			12V	I24	Black	07 pin	07	Blue	(+)	Steering lock	B
			Ignition	I24	Black	07 pin	06	Pink	(+)	Steering lock	B
			SLP	I24	Black	07 pin	04	Green	(-)	Steering lock	B
			TX	I13	White	30 pin	26	Red	(DATA)	Main body ECU, bottom of fusebox	A
			RX	I13	White	30 pin	25	Blue	(DATA)	Main body ECU, bottom of fusebox	A
			Parking Light	I13	White	30 pin	30	White	(-)	Main body ECU, bottom of fusebox	A
			PTS	I58	Black	10 pin	01	DkGreen	(-)	PTS button	C

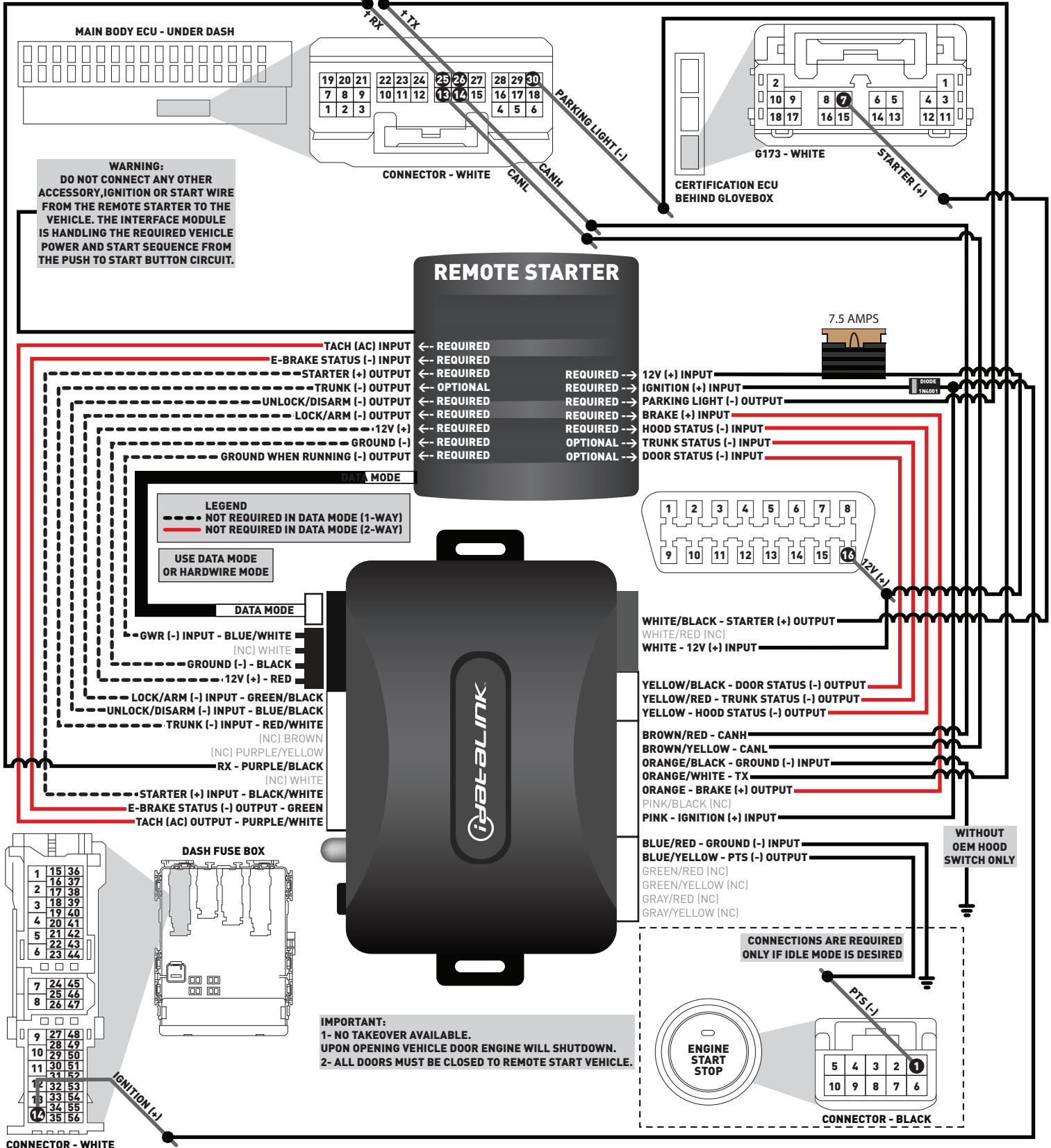
TYPE 9 - WIRING DIAGRAM - 1 OF 1



TYPE 10 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Rav4 Hybrid PTS	16-18	CanH	I13	White	30 pin	14	Green	(DATA)	Main body ECU, bottom of fusebox	A
			CanL	I13	White	30 pin	13	White	(DATA)	Main body ECU, bottom of fusebox	A
			12V	G14	White	16 pin	16	Blue	(+)	OBDII connector	D
			Ignition	3B	White	56 pin	14	Yellow	(+)	Dash fuse box	A
			TX	I13	White	30 pin	26	Red	(DATA)	Main body ECU, bottom of fusebox	A
			RX	I13	White	30 pin	25	Blue	(DATA)	Main body ECU, bottom of fusebox	A
			Parking Light	I13	White	30 pin	30	White	(-)	Main body ECU, bottom of fusebox	A
			PTS	I58	Black	10 pin	01	DkGreen	(-)	PTS button	C
			Starter	G173	White	18 pin	07	LtBlue	(+)	Certification ECU, behind glovebox	E

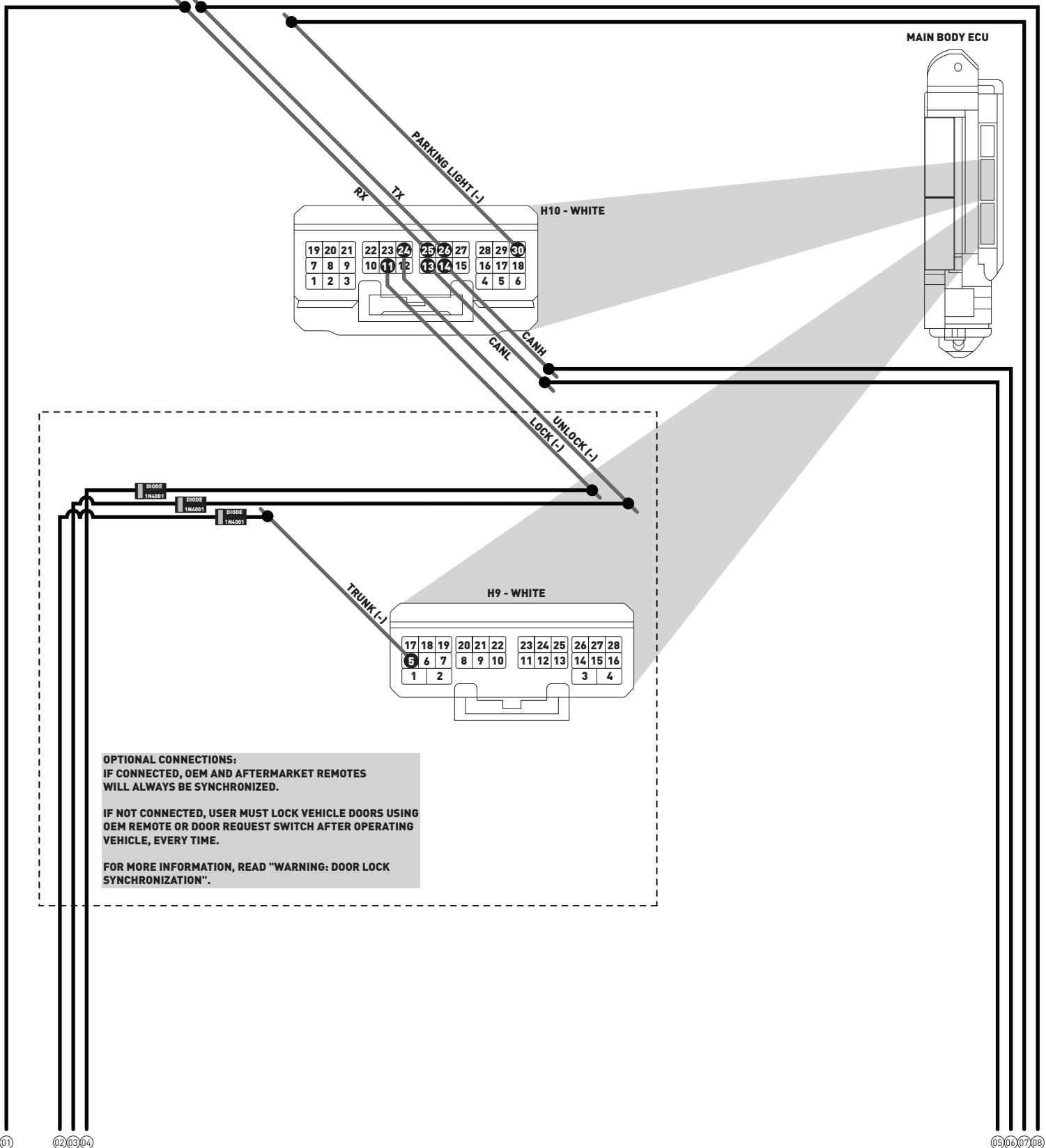
TYPE 10 - WIRING DIAGRAM - 1 OF 1



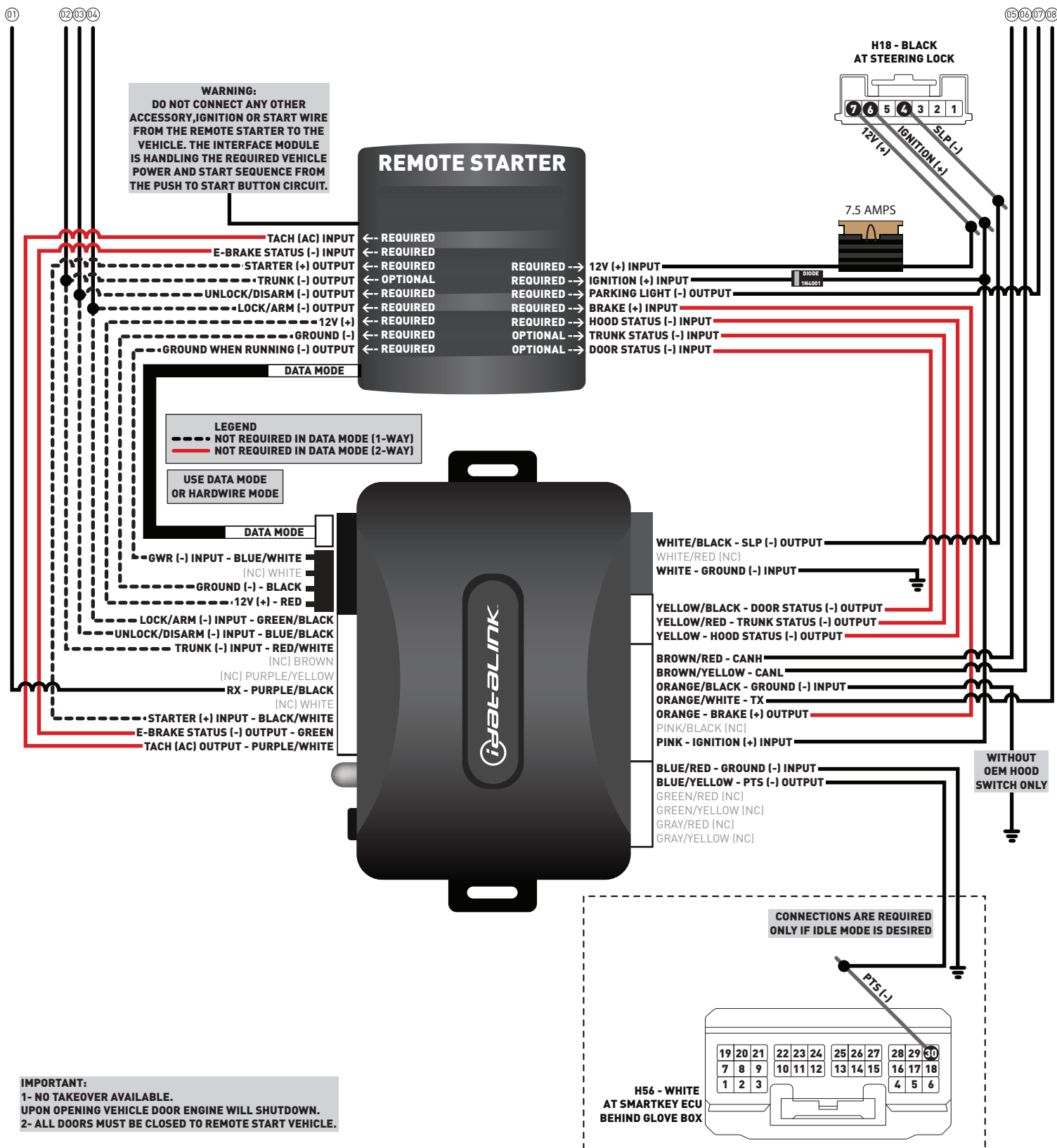
TYPE 11 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
LEXUS	ES350 PTS	16-18	CanH	H10	White	30 pin	14	Purple	(DATA)	Main body ECU	A
			CanL	H10	White	30 pin	13	White	(DATA)	Main body ECU	A
			12V	H18	Black	07 pin	07	Black	(+)	Steering lock	B
			Ignition	H18	Black	07 pin	06	LtGreen	(+)	Steering lock	B
			SLP	H18	Black	07 pin	04	Pink	(-)	Steering lock	B
			TX	H10	White	30 pin	26	Red	(DATA)	Main body ECU	A
			RX	H10	White	30 pin	25	Blue	(DATA)	Main body ECU	A
			Parking Light	H10	White	30 pin	30	White	(-)	Main body ECU	A
			PTS	H56	White	30 pin	30	Purple	(-)	Certification ECU, behind glove box	E
			Lock	H10	White	30 pin	11	Red	(-)	Main body ECU	A
			Unlock	H10	White	30 pin	24	Gray	(-)	Main body ECU	A
			Trunk Release	H9	White	28 pin	05	Red	(-)	Main body ECU	A

TYPE 11 - WIRING DIAGRAM - 1 OF 2



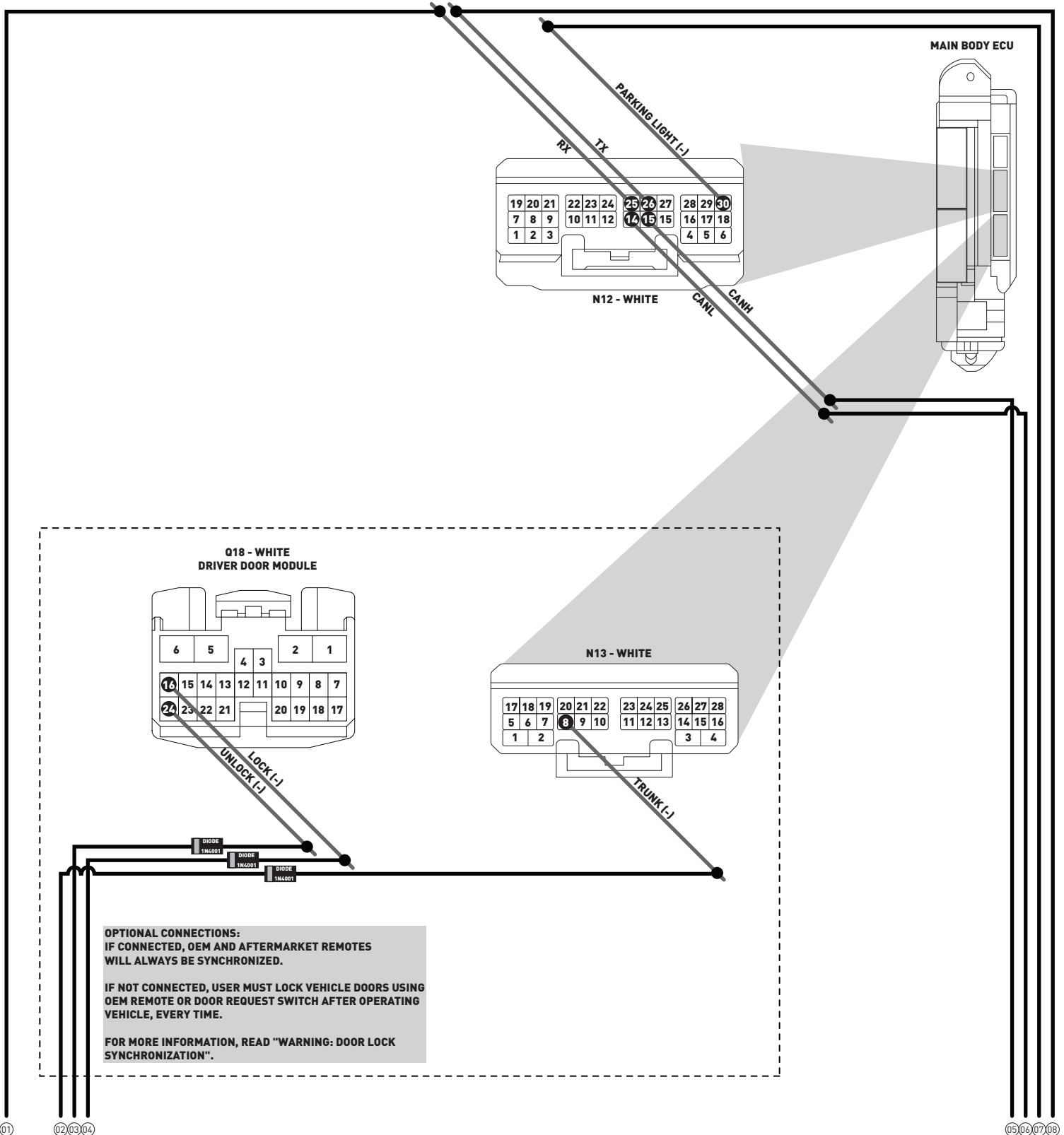
TYPE 11 - WIRING DIAGRAM - 2 OF 2



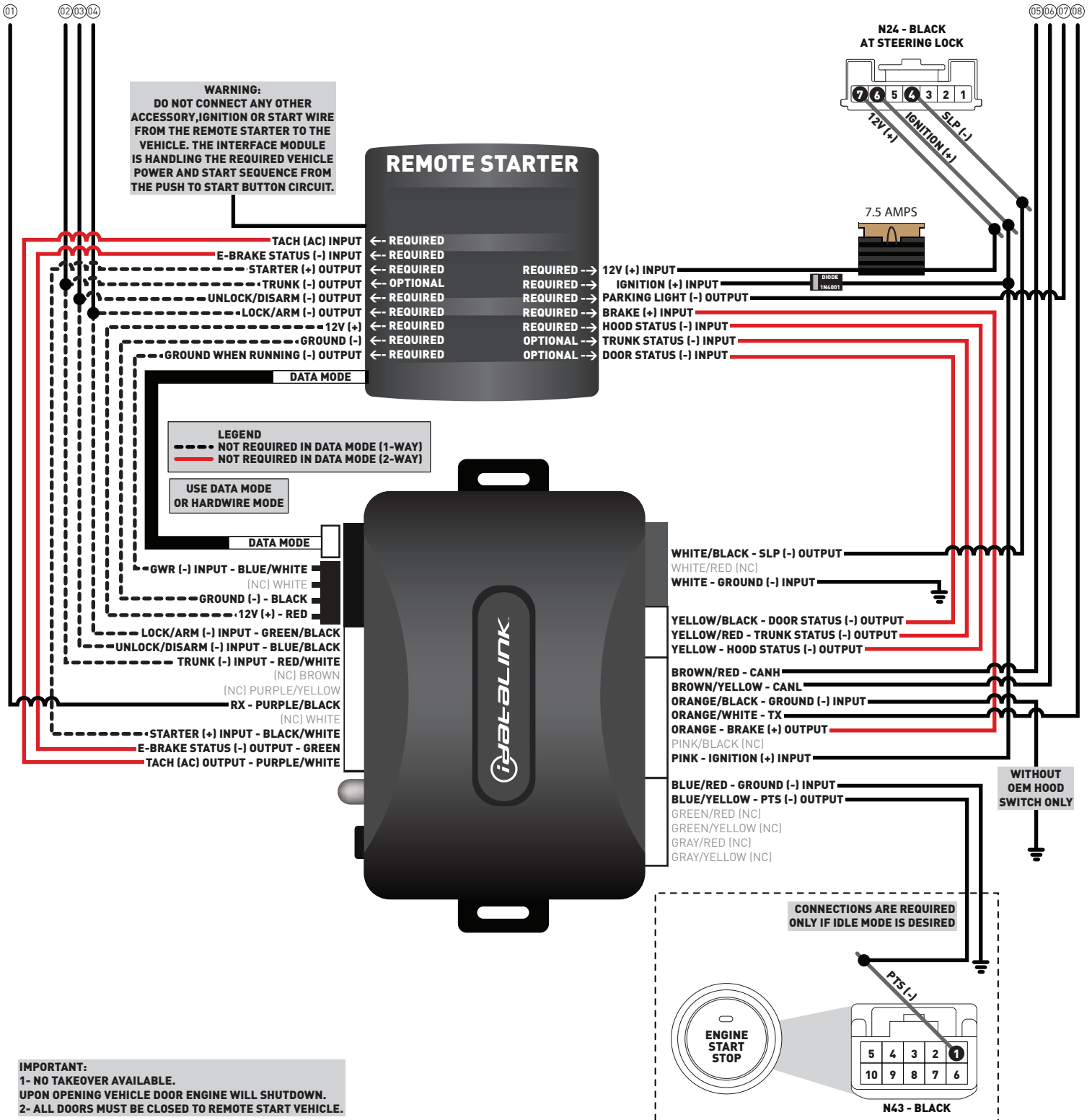
TYPE 12 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
LEXUS	GS200t PTS	16-17	CanH	N12	White	30 pin	14	Red	(DATA)	Main body ECU	A
			CanL	N12	White	30 pin	13	White	(DATA)	Main body ECU	A
			12V	N24	Black	07 pin	07	Blue	(+)	Steering lock	B
			Ignition	N24	Black	07 pin	06	Black	(+)	Steering lock	B
			SLP	N24	Black	07 pin	04	Blue	(-)	Steering lock	B
			TX	N12	White	30 pin	26	White or Green	(DATA)	Main body ECU	A
			RX	N12	White	30 pin	25	Black	(DATA)	Main body ECU	A
			Parking Light	N12	White	30 pin	30	Black	(-)	Main body ECU	A
			PTS	N43	Black	10 pin	01	Green	(-)	PTS button	C
			Lock	Q18	White	24 pin	16	Gray	(-)	Driver door module	~
			Unlock	Q18	White	24 pin	24	Purple	(-)	Driver door module	~
	Trunk Release	N13	White	28 pin	08	Yellow	(-)	Main body ECU	A		
	GS350 PTS	16-19	CanH	N12	White	30 pin	14	Red	(DATA)	Main body ECU	A
			CanL	N12	White	30 pin	13	White	(DATA)	Main body ECU	A
			12V	N24	Black	07 pin	07	Blue	(+)	Steering lock	B
			Ignition	N24	Black	07 pin	06	Black	(+)	Steering lock	B
			SLP	N24	Black	07 pin	04	Blue	(-)	Steering lock	B
			TX	N12	White	30 pin	26	White or Green	(DATA)	Main body ECU	A
			RX	N12	White	30 pin	25	Black	(DATA)	Main body ECU	A
			Parking Light	N12	White	30 pin	30	Black	(-)	Main body ECU	A
			PTS	N43	Black	10 pin	01	Green	(-)	PTS button	C
			Lock	Q18	White	24 pin	16	Gray	(-)	Driver door module	~
			Unlock	Q18	White	24 pin	24	Purple	(-)	Driver door module	~
	Trunk Release	N13	White	28 pin	08	Yellow	(-)	Main body ECU	A		
	GS450h PTS	16-18	CanH	N12	White	30 pin	14	Red	(DATA)	Main body ECU	A
			CanL	N12	White	30 pin	13	White	(DATA)	Main body ECU	A
			12V	N24	Black	07 pin	07	Blue	(+)	Steering lock	B
			Ignition	N24	Black	07 pin	06	Black	(+)	Steering lock	B
			SLP	N24	Black	07 pin	04	Blue	(-)	Steering lock	B
			TX	N12	White	30 pin	26	White or Green	(DATA)	Main body ECU	A
			RX	N12	White	30 pin	25	Black	(DATA)	Main body ECU	A
			Parking Light	N12	White	30 pin	30	Black	(-)	Main body ECU	A
			PTS	N43	Black	10 pin	01	Green	(-)	PTS button	C
Lock			Q18	White	24 pin	16	Gray	(-)	Driver door module	~	
Unlock			Q18	White	24 pin	24	Purple	(-)	Driver door module	~	
Trunk Release	N13	White	28 pin	08	Yellow	(-)	Main body ECU	A			

TYPE 12 - WIRING DIAGRAM - 1 OF 2



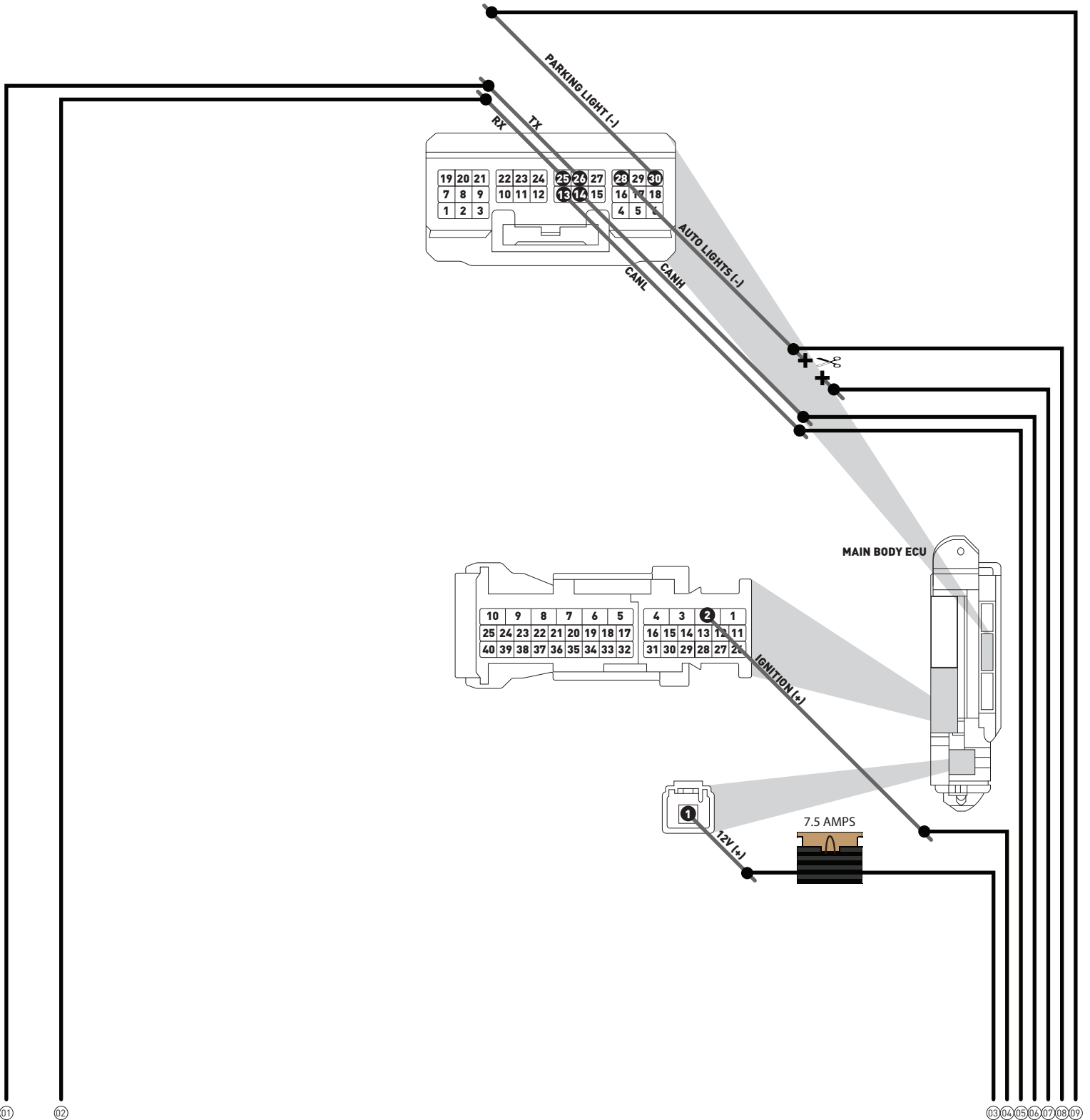
TYPE 12 - WIRING DIAGRAM - 2 OF 2



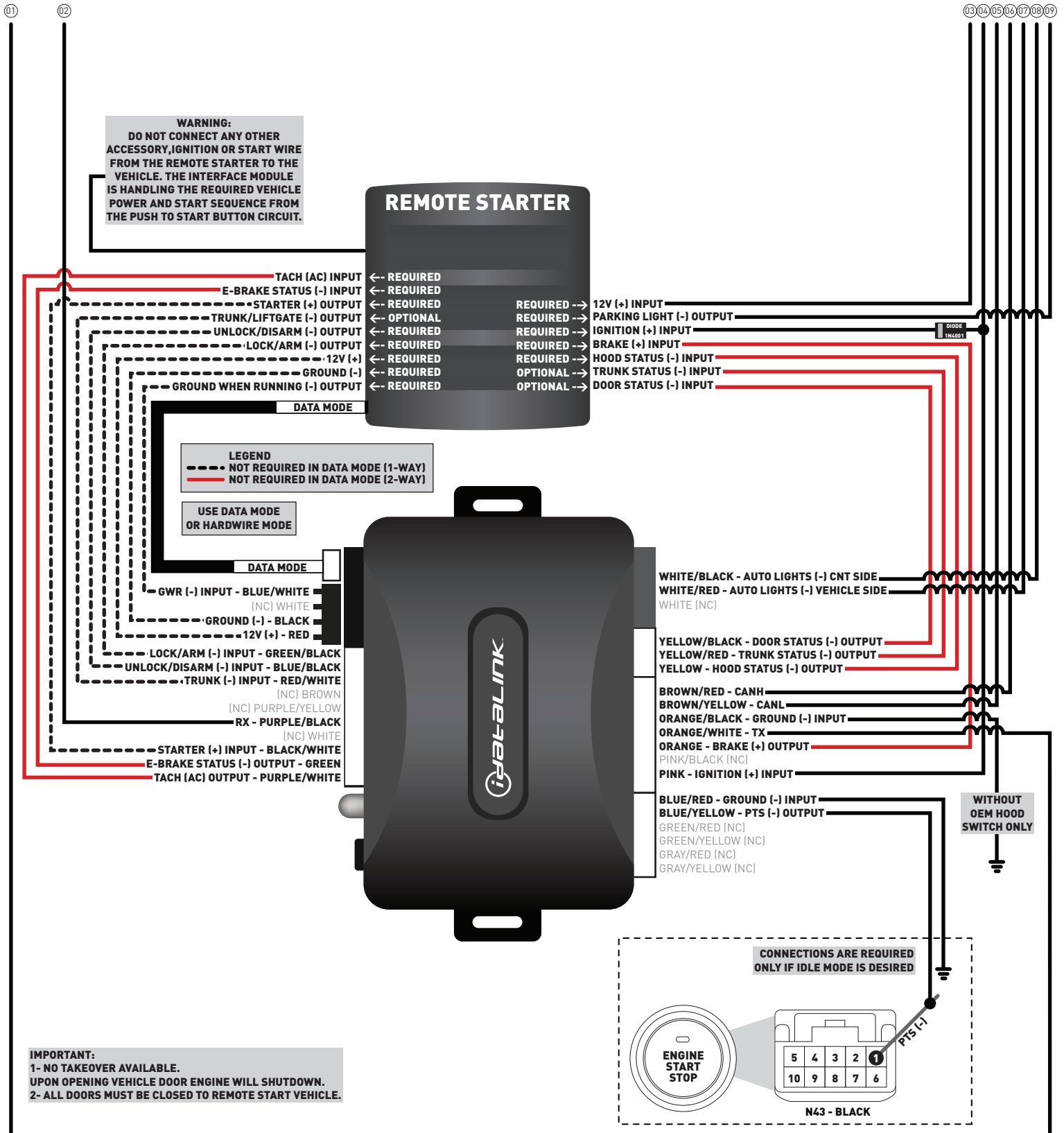
TYPE 13 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Prius V PTS	17-18	CanH	~	White	30 pin	14	LtBlue	(DATA)	Main body ECU	A
			CanL	~	White	30 pin	13	Red or White	(DATA)	Main body ECU	A
			12V	~	White	01 pin	01	White	(+)	Main body ECU	A
			Ignition	~	White	40 pin	02	Red	(+)	Main body ECU	A
			TX	~	White	30 pin	26	Green	(DATA)	Main body ECU	A
			RX	~	White	30 pin	25	Purple	(DATA)	Main body ECU	A
			Parking Light	~	White	30 pin	30	Yellow	(-)	Main body ECU	A
			PTS	~	Black	10 pin	01	Black	(-)	PTS button	C
			Auto Lights	~	White	30 pin	28	Green	(-)	Main body ECU	A

TYPE 13 - WIRING DIAGRAM - 1 OF 2



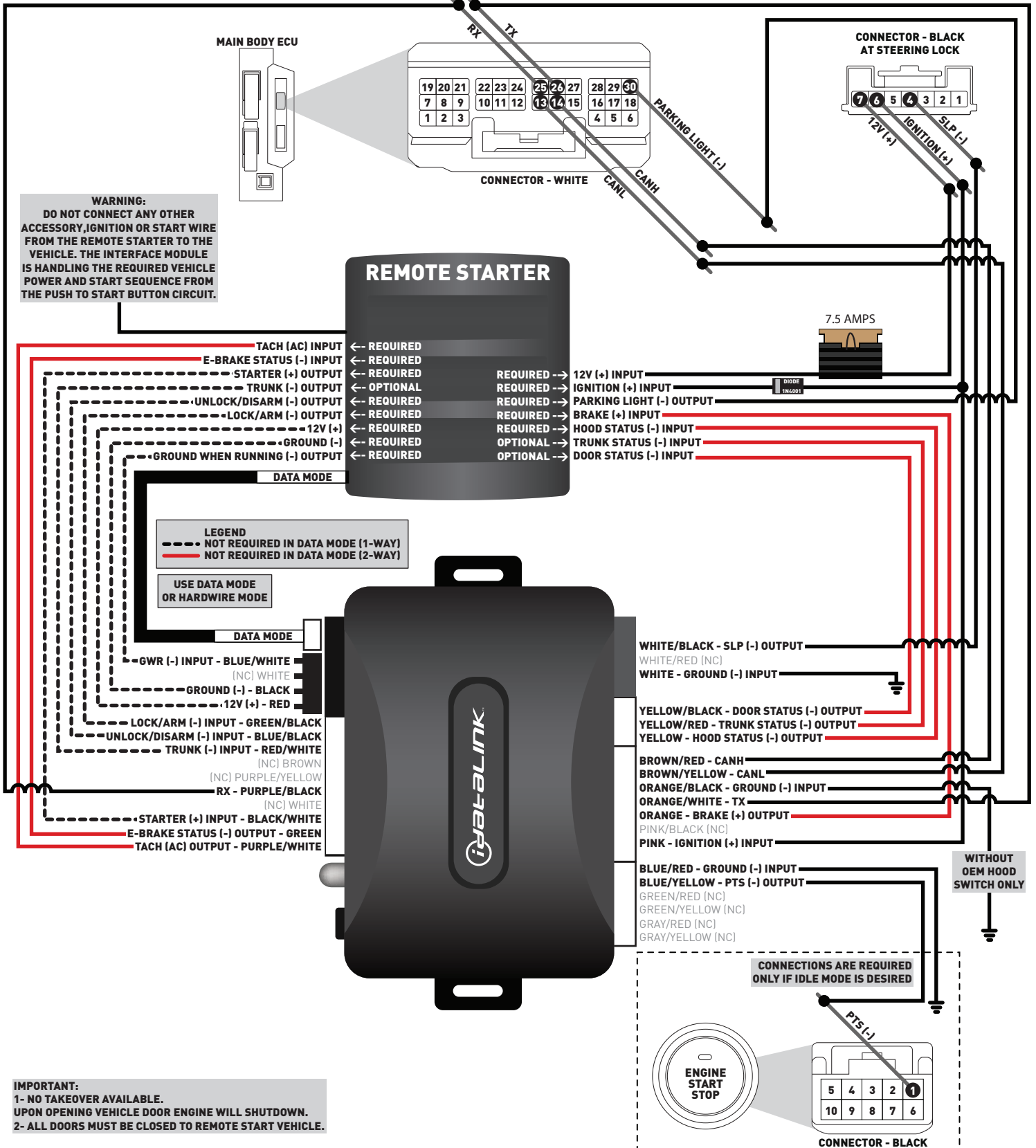
TYPE 13 - WIRING DIAGRAM - 2 OF 2



TYPE 14 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Prius C PTS	16-19	CanH	~	White	30 pin	14	Tan	(DATA)	Main body ECU	A
			CanL	~	White	30 pin	13	White	(DATA)	Main body ECU	A
			12V	G50	Black	07 pin	07	Gray	(+)	Steering lock	B
			Ignition	G50	Black	07 pin	06	LtBlue	(+)	Steering lock	B
			SLP	G50	Black	07 pin	04	Pink	(-)	Steering lock	B
			TX	~	White	30 pin	26	Red	(DATA)	Main body ECU	A
			RX	~	White	30 pin	25	Black	(DATA)	Main body ECU	A
			Parking Light	G59	White	30 pin	30	LtBlue	(-)	Main body ECU	A
PTS	G48	Black	10 pin	01	LtBlue	(-)	PTS button	C			

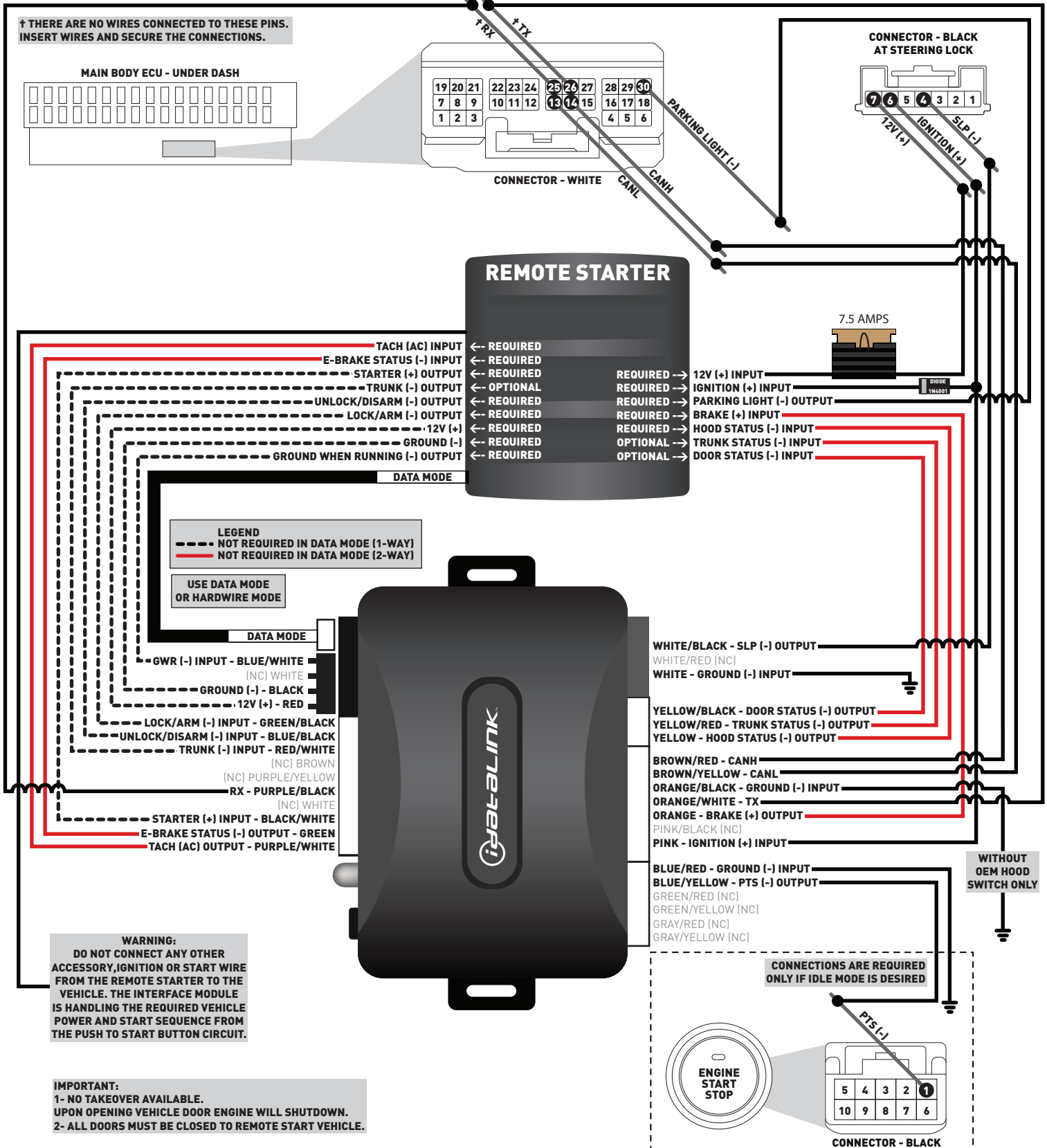
TYPE 14 - WIRING DIAGRAM - 1 OF 1



TYPE 15 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Corolla PTS AT	17-19	CanH	I13	White	30 pin	14	Black	(DATA)	Main body ECU, bottom of fusebox	A
			CanL	I13	White	30 pin	13	White	(DATA)	Main body ECU, bottom of fusebox	A
			12V	I24	Black	07 pin	07	Blue	(+)	Steering lock	B
			Ignition	I24	Black	07 pin	06	Gray or Green	(+)	Steering lock	B
			SLP	I24	Black	07 pin	04	Green	(-)	Steering lock	B
			TX	I13	White	30 pin	26	Empty	(DATA)	Main body ECU, bottom of fusebox	A
			RX	I13	White	30 pin	25	Empty	(DATA)	Main body ECU, bottom of fusebox	A
			Parking Light	I13	White	30 pin	30	White	(-)	Main body ECU, bottom of fusebox	A
			PTS	I58	Black	10 pin	01	Black	(-)	PTS button	C

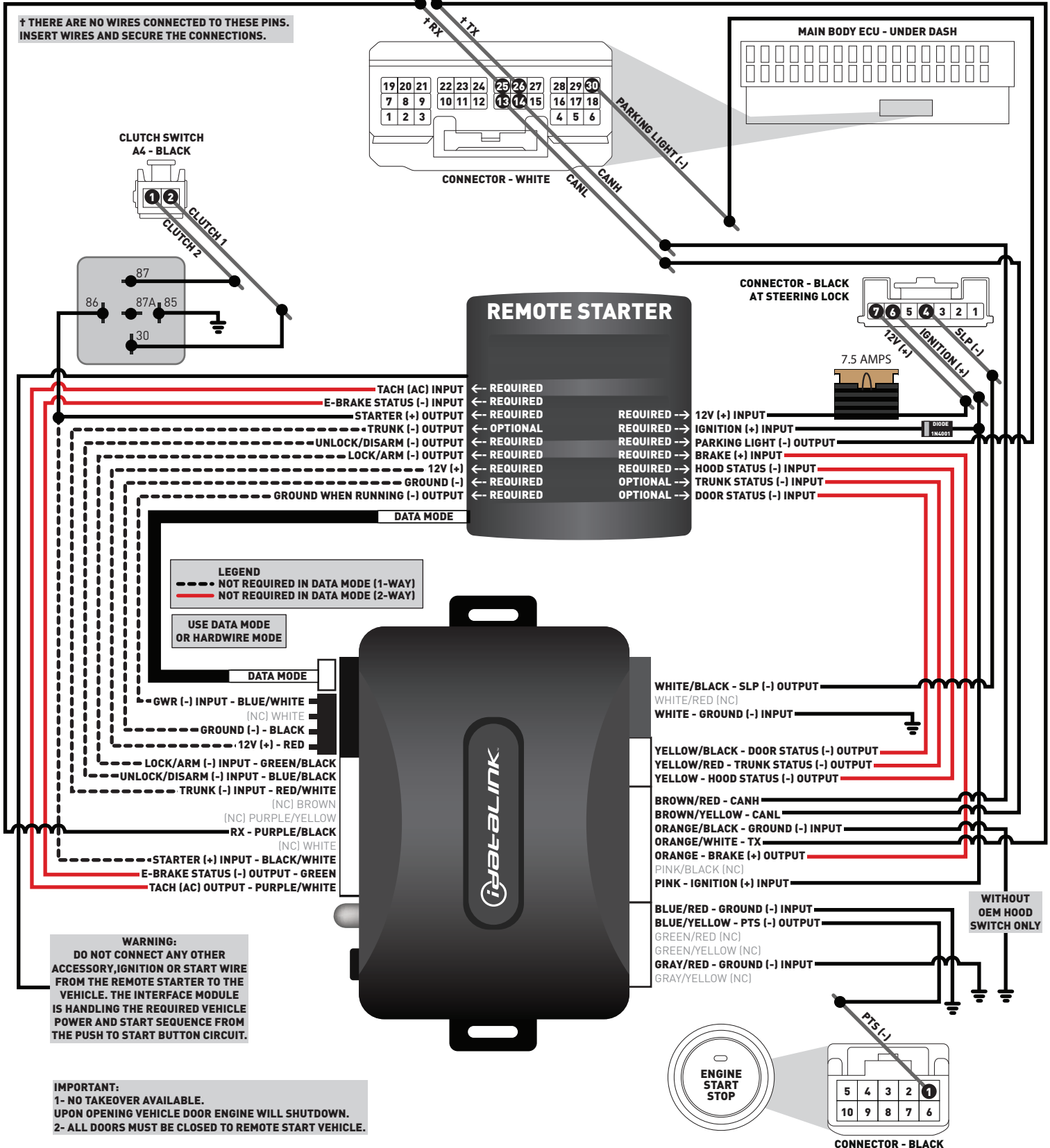
TYPE 15 - WIRING DIAGRAM - 1 OF 1



TYPE 16 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Corolla PTS MT	17-19	Canh	I13	White	30 pin	14	Black	[DATA]	Main body ECU, Bottom of fusebox	A
			CanL	I13	White	30 pin	13	White	[DATA]	Main body ECU, Bottom of fusebox	A
			12V	I24	Black	07 pin	07	Blue	(+)	Steering lock	B
			Ignition	I24	Black	07 pin	06	Gray or Green	(+)	Steering lock	B
			SLP	I24	Black	07 pin	04	Green	(-)	Steering lock	B
			TX	I13	White	30 pin	26	Empty	[DATA]	Main body ECU, Bottom of fusebox	A
			RX	I13	White	30 pin	25	Empty	[DATA]	Main body ECU, Bottom of fusebox	A
			Parking Light	I13	White	30 pin	30	White	(-)	Main body ECU, Bottom of fusebox	A
			PTS	I58	Black	10 pin	01	Black	(-)	PTS button	C
			Clutch 1	A4	Black	02 pin	02	~	~	Clutch switch	~
			Clutch 2	A4	Black	02 pin	01	Green	(+)	Clutch switch	~

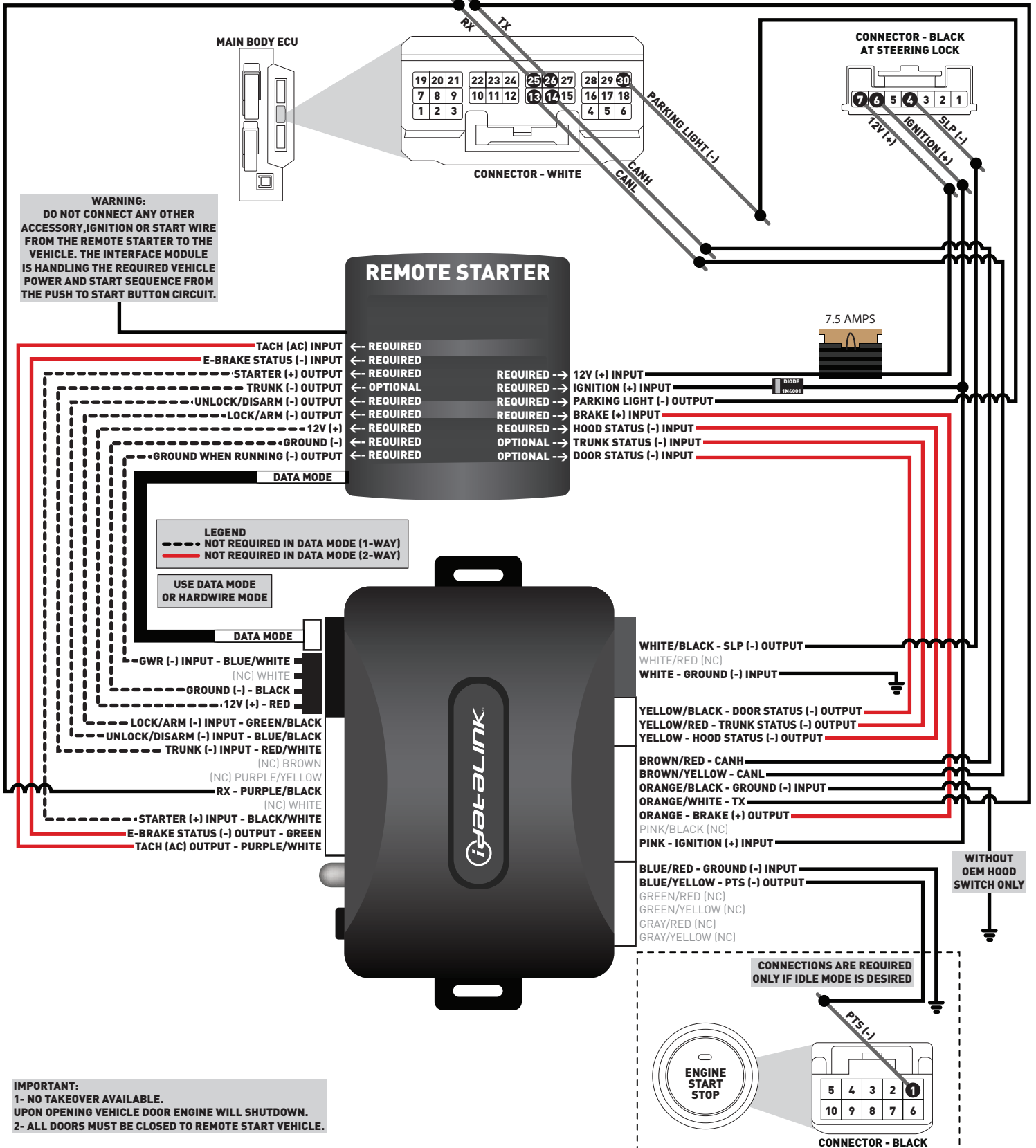
TYPE 16 - WIRING DIAGRAM - 1 OF 1



TYPE 17 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Avalon PTS	16-18	CanH	N12	White	30 pin	14	Pink	(DATA)	Main body ECU	A
			CanL	N12	White	30 pin	13	White	(DATA)	Main body ECU	A
			12V	N24	Black	07 pin	07	Purple	(+)	Steering lock	B
			Ignition	N24	Black	07 pin	06	Black	(+)	Steering lock	B
			SLP	N24	Black	07 pin	04	Green	(-)	Steering lock	B
			TX	N12	White	30 pin	26	LtGreen	(DATA)	Main body ECU	A
			RX	N12	White	30 pin	25	Brown	(DATA)	Main body ECU	A
			Parking Light	N12	White	30 pin	30	Red	(-)	Main body ECU	A
			PTS	N43	Black	10 pin	01	Purple	(-)	PTS button	C

TYPE 17 - WIRING DIAGRAM - 1 OF 1

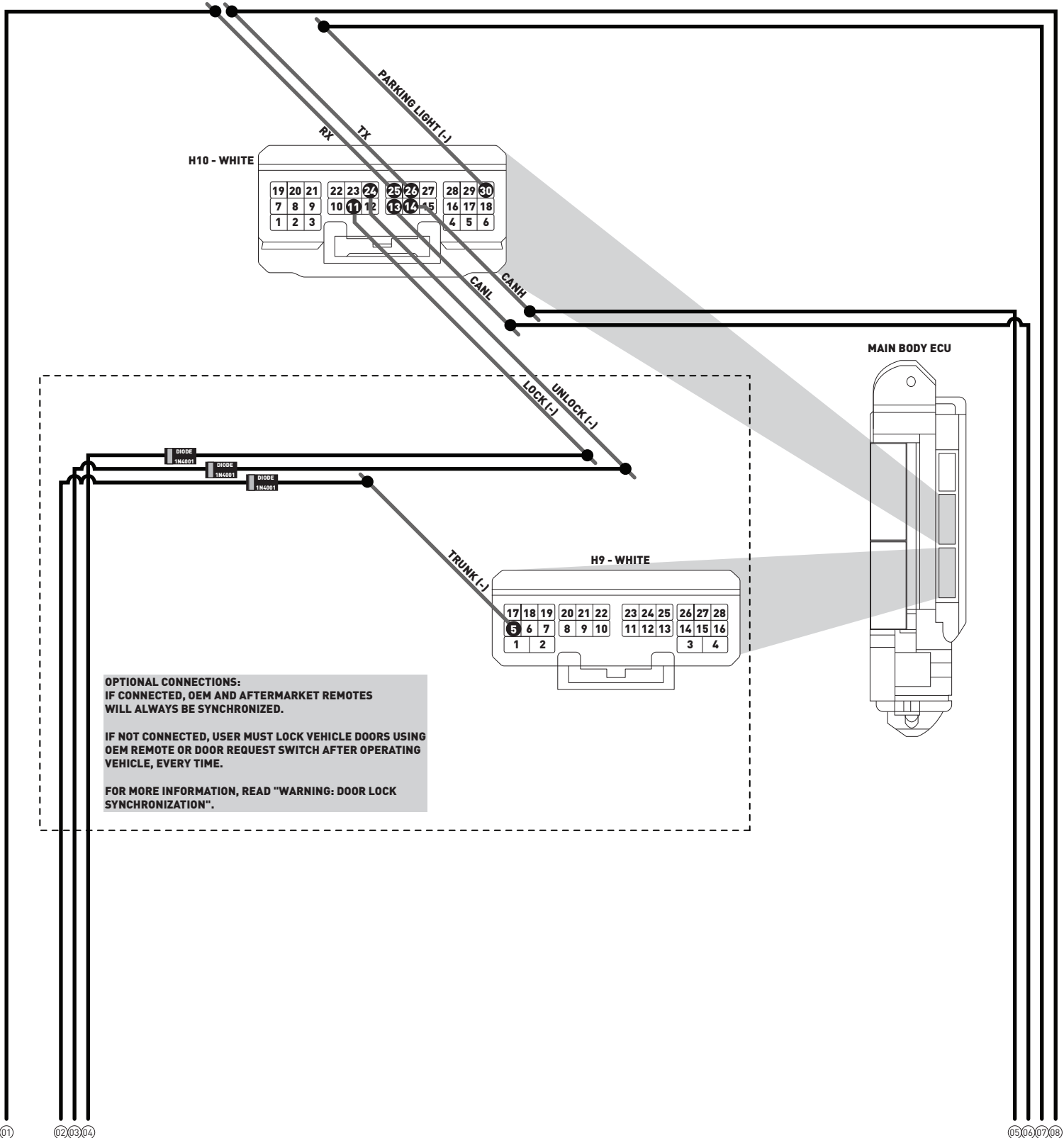


IMPORTANT:
 1- NO TAKEOVER AVAILABLE.
 UPON OPENING VEHICLE DOOR ENGINE WILL SHUTDOWN.
 2- ALL DOORS MUST BE CLOSED TO REMOTE START VEHICLE.

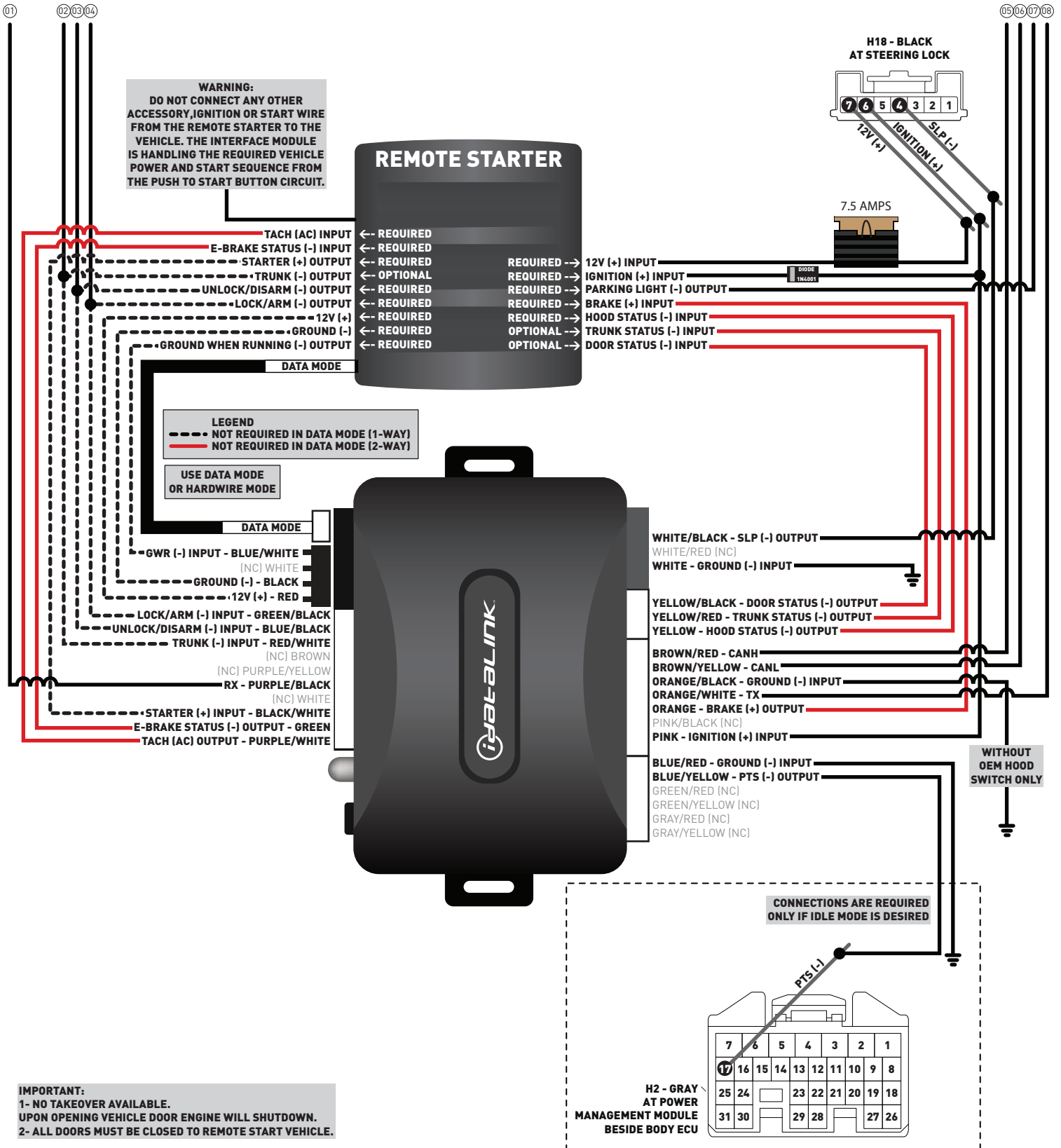
TYPE 18 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
LEXUS	ES300h PTS	16-18	CanH	H10	White	30 pin	14	Purple	(DATA)	Main body ECU	A
			CanL	H10	White	30 pin	13	White	(DATA)	Main body ECU	A
			12V	H18	Black	07 pin	07	Black	(+)	Steering lock	B
			Ignition	H18	Black	07 pin	06	LtGreen	(+)	Steering lock	B
			SLP	H18	Black	07 pin	04	Pink	(-)	Steering lock	B
			TX	H10	White	30 pin	26	Red	(DATA)	Main body ECU	A
			RX	H10	White	30 pin	25	Blue	(DATA)	Main body ECU	A
			Parking Light	H10	White	30 pin	30	White	(-)	Main body ECU	A
			PTS	H2	Gray	31 pin	17	Purple	(-)	Power management module	A
			Lock	H10	White	30 pin	11	Red	(-)	Main body ECU	A
			Unlock	H10	White	30 pin	24	Gray	(-)	Main body ECU	A
			Trunk Release	H9	White	28 pin	05	Red	(-)	Main body ECU	A

TYPE 18 - WIRING DIAGRAM - 1 OF 2





TYPE 18 - WIRING DIAGRAM - 2 OF 2

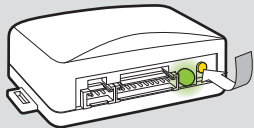


IMPORTANT:
 1- NO TAKEOVER AVAILABLE.
 UPON OPENING VEHICLE DOOR ENGINE WILL SHUTDOWN.
 2- ALL DOORS MUST BE CLOSED TO REMOTE START VEHICLE.

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.

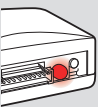
! After registration, follow Factory Reset Procedure to change installation mode and restart this procedure.

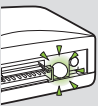
MODULE PROGRAMMING PROCEDURE


NOTE

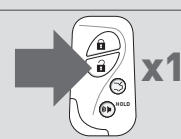
I Between each step, LED will turn solid RED, this is the default standby mode.

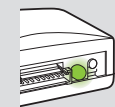
1  x2 Push start button twice [2x] to ON position.

2  LED will turn solid RED.

3  Within **5 seconds**, LED will flash GREEN rapidly.

4  x1 Push start button once [1x] to OFF position.

5  x1 Press unlock button once [1x] on OEM keyfob.

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

7 Module Programming Procedure completed.

TAKEOVER NOT AVAILABLE

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.
 - Repeat programming procedure.
- !** Failure to follow procedure may result with a DTC or a CHECK ENGINE error message.