

BLADE

SERIES

Automotive Data Solutions Inc.

INSTALL GUIDE

COM-BLADE-AL(DL)-TL9-EN

TL9

AVAILABLE FOR: COM-BLADE AL

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PATENT NO. US 8,856,780 CA 2759622

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SCION

 TOYOTA

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INSTALL TYPE SELECTION

MAKE	MODEL	YEAR	INSTALL TYPE	FEATURES															
				DATA IMMOBILIZER BYPASS	PARKING LIGHT CTRL	ARM OEM ALARM	DISARM OEM ALARM	DOOR LOCK	DOOR UNLOCK	POWER SLIDING DOOR (L)*	POWER SLIDING DOOR (R)*	TRUNK/HATCH RELEASE*	DOOR STATUS OUTPUT	TRUNK STATUS OUTPUT	HOOD STATUS OUTPUT**	TACHOMETER OUTPUT	BRAKE PEDAL STATUS OUTPUT	E-BRAKE OUTPUT	A/M ALARM CTRL FROM OEM REMOTES
SCION	iM STD key (H)	16	4	•	•	•	•	•	•			•	•	•	•	•	•	•	•
TOYOTA	4Runner STD key (H)	20	22	•	•	•	•	•	•			•	•	•	•	•	•	•	•
	Camry STD key (H)	15-17	1	•	•	•	•	•	•			•	•	•	•	•	•	•	•
	Camry STD key (H)	18-20	16	•	•	•	•	•	•			•	•	•	•	•	•	•	•
	C-HR STD key (H)	18-19	15	•	•	•	•	•	•			•	•	•	•	•	•	•	•
	Corolla iM STD key (H)	17-18	12	•	•	•	•	•	•			•	•	•	•	•	•	•	•
	Corolla STD key (H)	14-16	4	•	•	•	•	•	•			•	•	•	•	•	•	•	•
	Corolla STD key (H)	17-19	12	•	•	•	•	•	•			•	•	•	•	•	•	•	•
	Highlander STD key (H)	14-16	2	•	•	•	•	•	•			•	•	•	•	•	•	•	•
	Highlander STD key (H)	17-18	14	•	•	•	•	•	•			•	•	•	•	•	•	•	•
	Highlander STD key (H)	19	21	•	•	•	•	•	•			•	•	•	•	•	•	•	•
	Prius C STD key (H)	15-16	3	•	•	•	•	•	•			•	•	•	•	•	•	•	•
	Prius C STD key (H)	17-19	11	•	•	•	•	•	•			•	•	•	•	•	•	•	•
	Rav4 STD key (H)	13-15	7	•	•	•	•	•	•			•	•	•	•	•	•	•	•
	Rav4 STD key (H)	16-18	6	•	•	•	•	•	•			•	•	•	•	•	•	•	•
	Sequoia STD key (H)	15-17	9	•	•	•	•	•	•			•	•	•	•	•	•	•	•
	Sequoia STD key (H)	18-19	20	•	•	•	•	•	•			•	•	•	•	•	•	•	•
	Sienna STD key (H)	15-17	10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Sienna STD key (H)	18-20	17	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Tacoma STD key (H)	16-17	8	•	•	•	•	•	•			•	•	•	•	•	•	•	•
	Tacoma STD key (H)	18-20	18	•	•	•	•	•	•			•	•	•	•	•	•	•	•
Tundra STD key (H)	18-19	19	•	•	•	•	•	•			•	•	•	•	•	•	•	•	
Tundra STD key (H)	20	23	•	•	•	•	•	•			•	•	•	•	•	•	•	•	
Yaris Hatchback STD key (H)	15-16	5	•	•	•	•	•	•			•	•	•	•	•	•	•	•	
Yaris Hatchback STD key (H)	17-19	13	•	•	•	•	•	•			•	•	•	•	•	•	•	•	

* Available only when ignition is off.

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

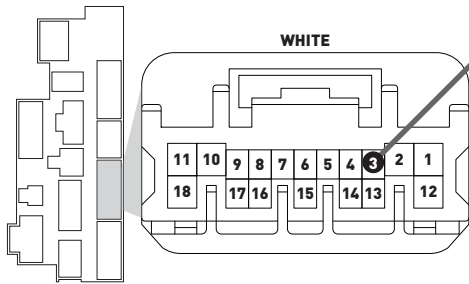
TYPE 1 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Camry STD key (H)	15-17	CanH	E13	White	16 pin	06	Blue	(DATA)	OBDII	~
			CanL	E13	White	16 pin	14	White	(DATA)	OBDII	~
			SIL	E13	White	16 pin	07	Gray	(DATA)	OBDII	~
			RDA	I13	White	30 pin	16	Blue	(DATA)	Body ECU next to dash fuse box	~
			TPMS ignition*	I01	White	18 pin	03	Yellow	(+)	Passenger kick panel, junction block	~
			Autolights	I13	White	30 pin	28	Green	(-)	Body ECU next to dash fuse box	~
			12V	I36	White	08 pin	05	Green	(+)	Ignition switch	~
			Ignition	I36	White	08 pin	06	Black	(+)	Ignition switch	~
			Ignition 2	I36	White	08 pin	01	Pink	(+)	Ignition switch	~
			Starter	I36	White	08 pin	07	Blue	(+)	Ignition switch	~
Starter 2	I36	White	08 pin	03	LtGreen	(+)	Ignition switch	~			

* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).

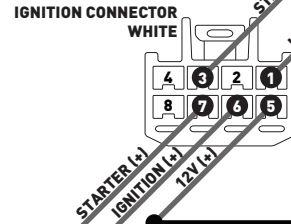
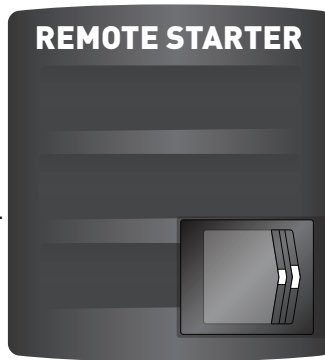
TYPE 1 - WIRING DIAGRAM - 1 OF 1

CONNECTION IS ONLY REQUIRED IF REMOTE START CONTROL FROM OEM REMOTES IS DESIRED AND VEHICLE IS EQUIPPED WITH TIRE PRESSURE MONITORING SYSTEM (TPMS).



PASSENGER KICK PANEL

THE SECURITY AND TPMS LIGHT WILL FLASH DURING THE REMOTE START SEQUENCE AND WILL TURN OFF UPON VEHICLE TAKEOVER.



STARTER (+) OUTPUT
12V (+) INPUT
STARTER 2 (+) OUTPUT
IGNITION 2 (+) OUTPUT
IGNITION (+) OUTPUT

GROUND WHEN RUNNING (-) OUTPUT

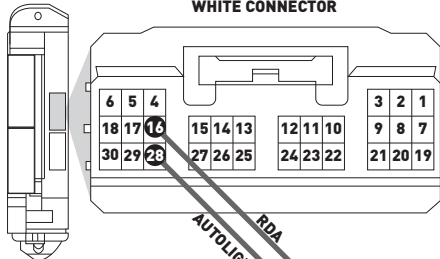
*BLADE CONNECTOR EXACT PIN-OUT

WHITE/RED	10	20	WHITE/BLACK
WHITE	09	19	NO WIRE
PINK/BLACK	08	18	PINK
NO WIRE	07	17	BLACK
BROWN/RED	06	16	BROWN/YELLOW
ORANGE/BLACK	05	15	ORANGE/WHITE
ORANGE	04	14	NO WIRE
BLUE/RED	03	13	BLUE/YELLOW
GREEN/RED	02	12	YELLOW
GRAY/RED	01	11	GRAY/YELLOW

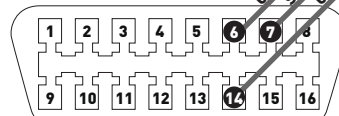
WHITE/BLACK - TPMS IGNITION (+) CONNECTOR
WHITE/RED - TPMS IGNITION (+) VEHICLE
WHITE (NC)
YELLOW (NC)
BROWN/RED - CANH
BROWN/YELLOW - CANL
ORANGE/BLACK - SIL
ORANGE/WHITE (NC)
ORANGE (NC)
PINK/BLACK (NC)
PINK - IGNITION (+) INPUT
BLUE/RED (NC)
BLUE/YELLOW (NC)
GREEN/RED - RDA (DATA)
GRAY/RED - GROUND (-) INPUT
GRAY/YELLOW (NC)
BLACK (NC)

MAIN BODY ECU

WHITE CONNECTOR



AUTOLIGHT (-)
RDA



NOTE 1:
CONNECT TO GROUND
IF VEHICLE IS NOT EQUIPPED
WITH IMMOBILIZER

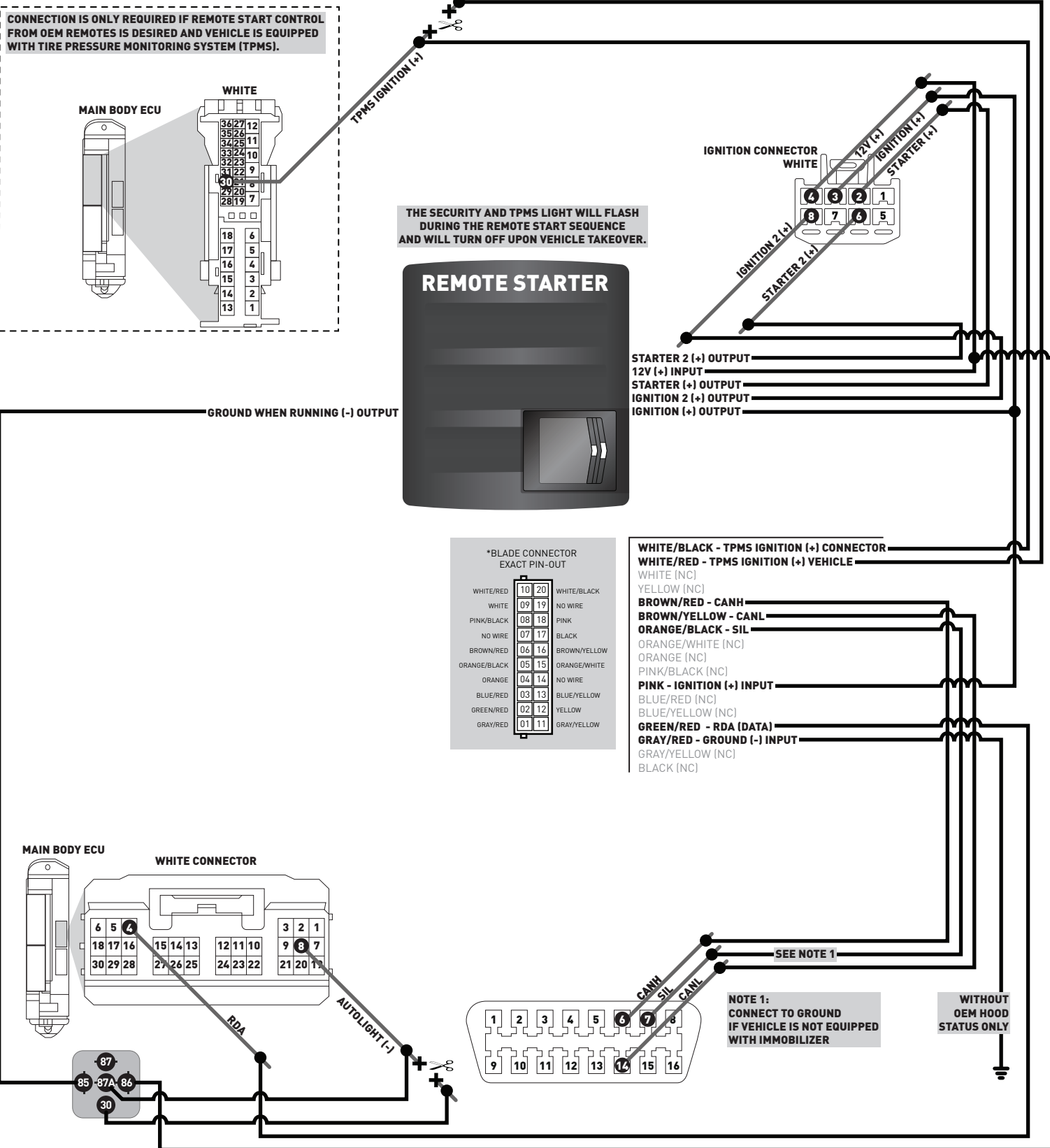
WITHOUT
OEM HOOD
STATUS ONLY

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
TOYOTA	Highlander STD key (H)	14-16	CanH	E13	White	16 pin	06	Purple	(DATA)	OBDII	~
			CanL	E13	White	16 pin	14	White	(DATA)	OBDII	~
			SIL	E13	White	16 pin	07	LtBlue	(DATA)	OBDII	~
			RDA	F19	White	30 pin	04	LtGreen	(DATA)	Body ECU next to dash fuse box	~
			TPMS ignition*	4H	White	36 pin	30	Yellow	(+)	Dash fuse box	~
			Autolights	F19	White	30 pin	08	Black	(-)	Body ECU next to dash fuse box	~
			12V	F50	White	08 pin	04	Black	(+)	Ignition switch	~
			Ignition	F50	White	08 pin	03	Black	(+)	Ignition switch	~
			Ignition 2	F50	White	08 pin	08	Green	(+)	Ignition switch	~
			Starter	F50	White	08 pin	02	Blue	(+)	Ignition switch	~
Starter 2	F50	White	08 pin	06	Gray	(+)	Ignition switch	~			

* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).

TYPE 2 - WIRING DIAGRAM - 1 OF 1



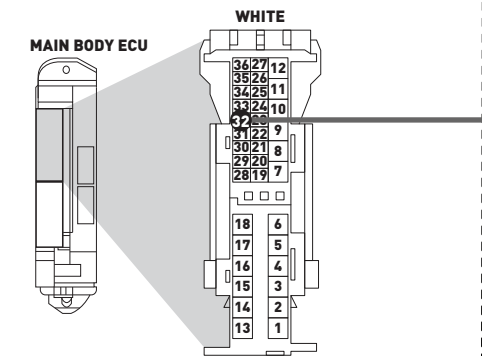
TYPE 3 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Prius C STD key (H)	15-16	CanH	~	White	16 pin	06	Gray	(DATA)	OBDII	~
			CanL	~	White	16 pin	14	White	(DATA)	OBDII	~
			SIL	E13	White	16 pin	07	Black	(DATA)	OBDII	~
			RDA	~	White	30 pin	16	LtGreen	(DATA)	Body ECU next to dash fuse box	~
			TPMS ignition*	3D	White	36 pin	32	Blue	(+)	Dash fuse box	~
			Autolights	~	White	30 pin	28	Red	(-)	Body ECU next to dash fuse box	~
			12V	~	White	08 pin	04	Black	(+)	Ignition switch	~
			Ignition	~	White	08 pin	06	Pink	(+)	Ignition switch	~
			Ignition 2	~	White	08 pin	01	LtBlue	(+)	Ignition switch	~
			Starter	~	White	08 pin	07	Green	(+)	Ignition switch	~

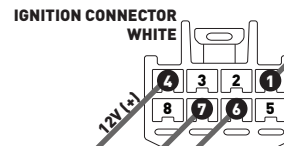
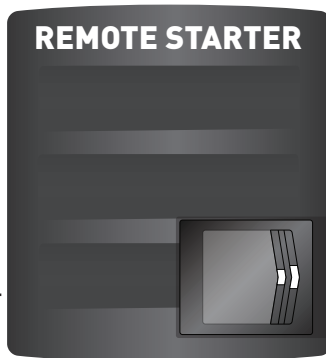
* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).

TYPE 3 - WIRING DIAGRAM - 1 OF 1

CONNECTION IS ONLY REQUIRED IF REMOTE START CONTROL FROM OEM REMOTES IS DESIRED AND VEHICLE IS EQUIPPED WITH TIRE PRESSURE MONITORING SYSTEM (TPMS).



THE SECURITY AND TPMS LIGHT WILL FLASH DURING THE REMOTE START SEQUENCE AND WILL TURN OFF UPON VEHICLE TAKEOVER.



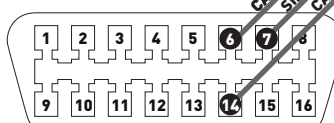
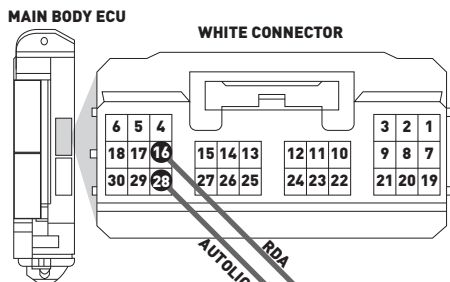
12V (+) INPUT
STARTER (+) OUTPUT
IGNITION 2 (+) OUTPUT
IGNITION (+) OUTPUT

GROUND WHEN RUNNING (-) OUTPUT

*BLADE CONNECTOR EXACT PIN-OUT

WHITE/RED	10	20	WHITE/BLACK
WHITE	09	19	NO WIRE
PINK/BLACK	08	18	PINK
NO WIRE	07	17	BLACK
BROWN/RED	06	16	BROWN/YELLOW
ORANGE/BLACK	05	15	ORANGE/WHITE
ORANGE	04	14	NO WIRE
BLUE/RED	03	13	BLUE/YELLOW
GREEN/RED	02	12	YELLOW
GRAY/RED	01	11	GRAY/YELLOW

WHITE/BLACK - TPMS IGNITION (+) CONNECTOR
WHITE/RED - TPMS IGNITION (+) VEHICLE
WHITE (NC)
YELLOW (NC)
BROWN/RED - CANH
BROWN/YELLOW - CANL
ORANGE/BLACK - SIL
ORANGE/WHITE (NC)
ORANGE (NC)
PINK/BLACK (NC)
PINK - IGNITION (+) INPUT
BLUE/RED (NC)
BLUE/YELLOW (NC)
GREEN/RED - RDA (DATA)
GRAY/RED - GROUND (-) INPUT
GRAY/YELLOW (NC)
BLACK (NC)



NOTE 1:
CONNECT TO GROUND
IF VEHICLE IS NOT EQUIPPED
WITH IMMOBILIZER

WITHOUT
OEM HOOD
STATUS ONLY

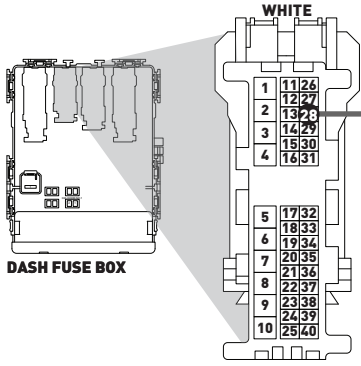
TYPE 4 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
SCION	iM STD key (H)	16	CanH	E13	White	16 pin	06	Red	(DATA)	OBDII	~
			CanL	E13	White	16 pin	14	White	(DATA)	OBDII	~
			SIL	E13	White	16 pin	07	LtGreen	(DATA)	OBDII	~
			RDA	E31	White	30 pin	16	Green	(DATA)	Below dash junction box	~
			TPMS ignition*	3E	White	36 pin	28	Blue	(+)	Dash fuse box	
			Autolights	E31	White	30 pin	28	Purple	(-)	Below dash junction box	~
			12V	E4	White	08 pin	04	Blue	(+)	Ignition switch	~
			Ignition	E4	White	08 pin	03	Gray	(+)	Ignition switch	~
			Ignition 2	E4	White	08 pin	08	Green	(+)	Ignition switch	~
			Starter	E4	White	08 pin	02	White	(+)	Ignition switch	~
TOYOTA	Corolla STD key (H)	14-16	CanH	E13	White	16 pin	06	Red	(DATA)	OBDII	~
			CanL	E13	White	16 pin	14	White	(DATA)	OBDII	~
			SIL	E13	White	16 pin	07	LtGreen	(DATA)	OBDII	~
			RDA	E31	White	30 pin	16	Green	(DATA)	Below dash junction box	~
			TPMS ignition*	3E	White	36 pin	28	Blue	(+)	Dash fuse box	
			Autolights	E31	White	30 pin	28	Purple	(-)	Below dash junction box	~
			12V	E4	White	08 pin	04	Blue	(+)	Ignition switch	~
			Ignition	E4	White	08 pin	03	Gray	(+)	Ignition switch	~
			Ignition 2	E4	White	08 pin	08	Green	(+)	Ignition switch	~
			Starter	E4	White	08 pin	02	White	(+)	Ignition switch	~

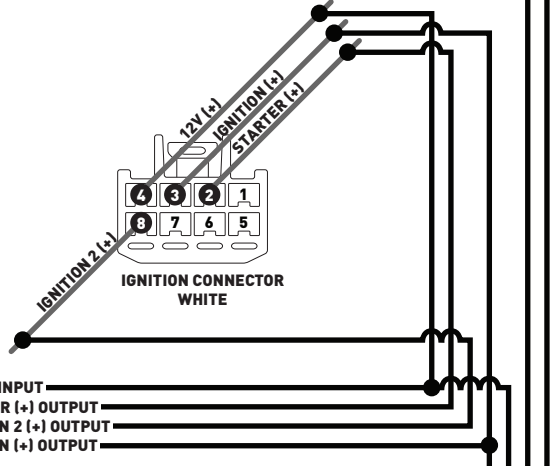
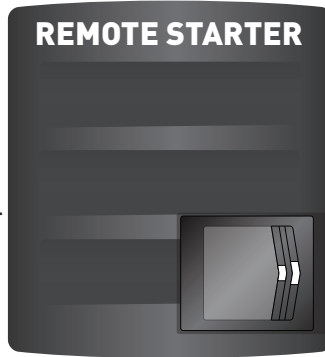
* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).

TYPE 4 - WIRING DIAGRAM - 1 OF 1

CONNECTION IS ONLY REQUIRED IF REMOTE START CONTROL FROM OEM REMOTES IS DESIRED AND VEHICLE IS EQUIPPED WITH TIRE PRESSURE MONITORING SYSTEM (TPMS).



THE SECURITY AND TPMS LIGHT WILL FLASH DURING THE REMOTE START SEQUENCE AND WILL TURN OFF UPON VEHICLE TAKEOVER.



12V (+) INPUT
STARTER (+) OUTPUT
IGNITION 2 (+) OUTPUT
IGNITION (+) OUTPUT

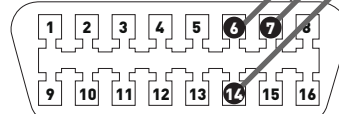
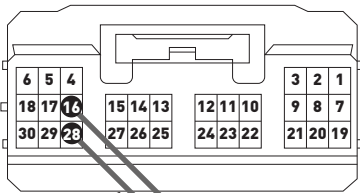
GROUND WHEN RUNNING (-) OUTPUT

*BLADE CONNECTOR EXACT PIN-OUT

WHITE/RED	10	20	WHITE/BLACK
WHITE	09	19	NO WIRE
PINK/BLACK	08	18	PINK
NO WIRE	07	17	BLACK
BROWN/RED	06	16	BROWN/YELLOW
ORANGE/BLACK	05	15	ORANGE/WHITE
ORANGE	04	14	NO WIRE
BLUE/RED	03	13	BLUE/YELLOW
GREEN/RED	02	12	YELLOW
GRAY/RED	01	11	GRAY/YELLOW

WHITE/BLACK - TPMS IGNITION (+) CONNECTOR
WHITE/RED - TPMS IGNITION (+) VEHICLE
WHITE (NC)
YELLOW (NC)
BROWN/RED - CANH
BROWN/YELLOW - CANL
ORANGE/BLACK - SIL
ORANGE/WHITE (NC)
ORANGE (NC)
PINK/BLACK (NC)
PINK - IGNITION (+) INPUT
BLUE/RED (NC)
BLUE/YELLOW (NC)
GREEN/RED - RDA (DATA)
GRAY/RED - GROUND (-) INPUT
GRAY/YELLOW (NC)
BLACK (NC)

BELOW DASH FUSE BOX
WHITE CONNECTOR



NOTE 1:
CONNECT TO GROUND IF VEHICLE IS NOT EQUIPPED WITH IMMOBILIZER

WITHOUT OEM HOOD STATUS ONLY

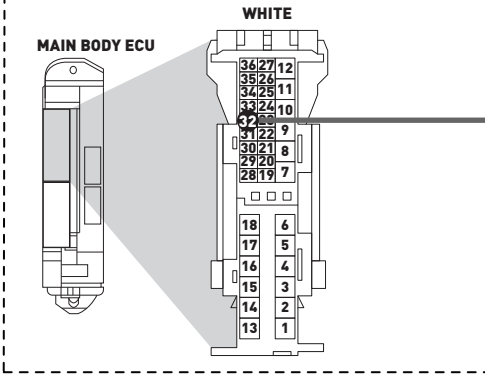
TYPE 5 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Yaris Hatchback STD key (H) w/o OEM alarm	15-16	CanH	E13	White	16 pin	06	Gray	(DATA)	OBDII	~
			CanL	E13	White	16 pin	14	White	(DATA)	OBDII	~
			SIL	E13	White	16 pin	07	Black	(DATA)	OBDII	~
			RDA	D143	White	30 pin	16	Pink	(DATA)	Body ECU next to dash fuse box	~
			TPMS ignition*	3D	White	36 pin	32	Blue	(+)	Dash fuse box	~
			12V	D109	White	08 pin	04	Yellow	(+)	Ignition switch	~
			Ignition	D109	White	08 pin	06	Pink	(+)	Ignition switch	~
			Ignition 2	D109	White	08 pin	01	LtBlue	(+)	Ignition switch	~
			Starter	D109	White	08 pin	07	Green	(+)	Ignition switch	~
	Yaris Hatchback STD key (H) with OEM alarm	15-16	CanH	E13	White	16 pin	06	Gray	(DATA)	OBDII	~
			CanL	E13	White	16 pin	14	White	(DATA)	OBDII	~
			SIL	E13	White	16 pin	07	Black	(DATA)	OBDII	~
			RDA	D143	White	30 pin	26	Pink	(DATA)	Body ECU next to dash fuse box	~
			TPMS ignition*	3D	White	36 pin	32	Blue	(+)	Dash fuse box	~
			12V	D109	White	08 pin	04	Yellow	(+)	Ignition switch	~
			Ignition	D109	White	08 pin	06	Pink	(+)	Ignition switch	~
Ignition 2			D109	White	08 pin	01	LtBlue	(+)	Ignition switch	~	
Starter	D109	White	08 pin	07	Green	(+)	Ignition switch	~			

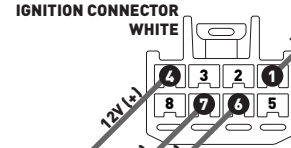
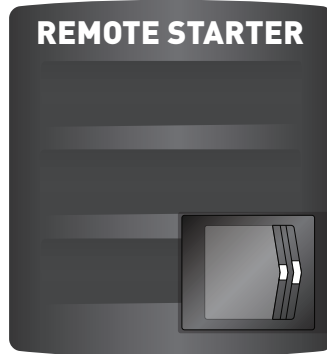
* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).

TYPE 5 - WIRING DIAGRAM - 1 OF 1

CONNECTION IS ONLY REQUIRED IF REMOTE START CONTROL FROM OEM REMOTES IS DESIRED AND VEHICLE IS EQUIPPED WITH TIRE PRESSURE MONITORING SYSTEM (TPMS).



THE SECURITY AND TPMS LIGHT WILL FLASH DURING THE REMOTE START SEQUENCE AND WILL TURN OFF UPON VEHICLE TAKEOVER.

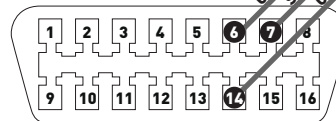
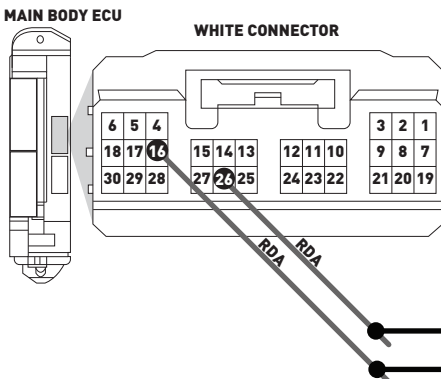


12V (+) INPUT
STARTER (+) OUTPUT
IGNITION 2 (+) OUTPUT
IGNITION (+) OUTPUT

*BLADE CONNECTOR EXACT PIN-OUT

WHITE/RED	10	20	WHITE/BLACK
WHITE	09	19	NO WIRE
PINK/BLACK	08	18	PINK
NO WIRE	07	17	BLACK
BROWN/RED	06	16	BROWN/YELLOW
ORANGE/BLACK	05	15	ORANGE/WHITE
ORANGE	04	14	NO WIRE
BLUE/RED	03	13	BLUE/YELLOW
GREEN/RED	02	12	YELLOW
GRAY/RED	01	11	GRAY/YELLOW

WHITE/BLACK - TPMS IGNITION (+) CONNECTOR
WHITE/RED - TPMS IGNITION (+) VEHICLE
WHITE (NC)
YELLOW (NC)
BROWN/RED - CANH
BROWN/YELLOW - CANL
ORANGE/BLACK - SIL
ORANGE/WHITE (NC)
ORANGE (NC)
PINK/BLACK (NC)
PINK - IGNITION (+) INPUT
BLUE/RED (NC)
BLUE/YELLOW (NC)
GREEN/RED - RDA (DATA)
GRAY/RED - GROUND (-) INPUT
GRAY/YELLOW (NC)
BLACK (NC)



NOTE 1:
CONNECT TO GROUND
IF VEHICLE IS NOT EQUIPPED
WITH IMMOBILIZER

WITHOUT
OEM HOOD
STATUS ONLY

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 STD key (H)	16-18	CanH	G12	Black	05 pin	03	Pink	(DATA)	Clock spring, under steering wheel	~
			CanL	G12	Black	05 pin	02	White	(DATA)	Clock spring, under steering wheel	~
			SIL	E13	White	16 pin	07	DkGreen	(DATA)	OBDII	~
			RDA	E31	White	30 pin	16	LtBlue	(DATA)	Below fuse junction box	~
			TPMS ignition*	GM2	Blue	20 pin	13	Tan	(+)	Passenger kick panel, junction block	~
			Autolights	E31	White	30 pin	28	Green	(-)	Below fuse junction box	~
			12V	G4	White	08 pin	04	White	(+)	Ignition switch	~
			Ignition	G4	White	08 pin	03	White	(+)	Ignition switch	~
			Ignition 2	G4	White	08 pin	08	Pink	(+)	Ignition switch	~
			Starter	G4	White	08 pin	02	White	(+)	Ignition switch	~

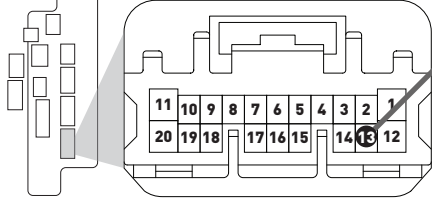
* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).

TYPE 6 - WIRING DIAGRAM - 1 OF 1

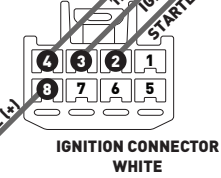
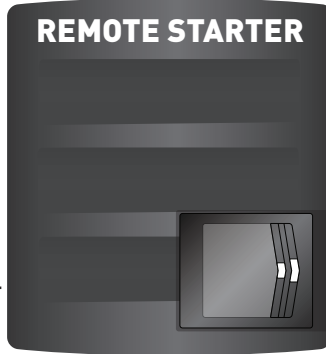
CONNECTION IS ONLY REQUIRED IF REMOTE START CONTROL FROM OEM REMOTES IS DESIRED AND VEHICLE IS EQUIPPED WITH TIRE PRESSURE MONITORING SYSTEM (TPMS).

PASSENGER KICK PANEL

BLUE



THE SECURITY AND TPMS LIGHT WILL FLASH DURING THE REMOTE START SEQUENCE AND WILL TURN OFF UPON VEHICLE TAKEOVER.



12V (+) INPUT
STARTER (+) OUTPUT
IGNITION 2 (+) OUTPUT
IGNITION (+) OUTPUT

GROUND WHEN RUNNING (-) OUTPUT

*BLADE CONNECTOR EXACT PIN-OUT

WHITE/RED	10	20	WHITE/BLACK
WHITE	09	19	NO WIRE
PINK/BLACK	08	18	PINK
NO WIRE	07	17	BLACK
BROWN/RED	06	16	BROWN/YELLOW
ORANGE/BLACK	05	15	ORANGE/WHITE
ORANGE	04	14	NO WIRE
BLUE/RED	03	13	BLUE/YELLOW
GREEN/RED	02	12	YELLOW
GRAY/RED	01	11	GRAY/YELLOW

WHITE/BLACK - TPMS IGNITION (+) CONNECTOR

WHITE/RED - TPMS IGNITION (+) VEHICLE

WHITE (NC)

YELLOW (NC)

BROWN/RED - CANH

BROWN/YELLOW - CANL

ORANGE/BLACK - SIL

ORANGE/WHITE (NC)

ORANGE (NC)

PINK/BLACK (NC)

PINK - IGNITION (+) INPUT

BLUE/RED (NC)

BLUE/YELLOW (NC)

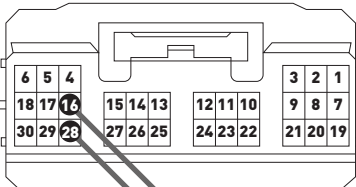
GREEN/RED - RDA (DATA)

GRAY/RED - GROUND (-) INPUT

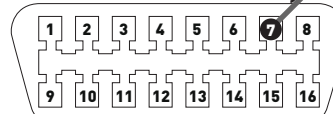
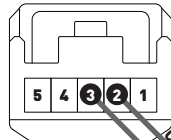
GRAY/YELLOW (NC)

BLACK (NC)

BELOW DASH FUSE BOX
WHITE



STEERING SENSOR AT CLOCK SPRING
UNDER STEERING WHEEL
BLACK



NOTE 1:
CONNECT TO GROUND
IF VEHICLE IS NOT EQUIPPED
WITH IMMOBILIZER

SEE NOTE 1

WITHOUT
OEM HOOD
STATUS ONLY

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	Rav4 STD key (H)	13-15	CanH	E13	White	16 pin	06	Black	(DATA)	OBDII	~
			CanL	E13	White	16 pin	14	White	(DATA)	OBDII	~
			SIL	E13	White	16 pin	07	DkGreen	(DATA)	OBDII	~
			RDA	E31	White	30 pin	16	LtBlue or Green	(DATA)	Below dash fuse box	~
			TPMS ignition*	GM2	Blue	20 pin	13	Tan	(+)	Passenger kick panel, junction block	~
			Autolights	E31	White	30 pin	28	Green	(-)	Below dash fuse box	~
			12V	G4	White	08 pin	04	White	(+)	Ignition switch	~
			Ignition	G4	White	08 pin	03	White	(+)	Ignition switch	~
			Ignition 2	G4	White	08 pin	08	Pink	(+)	Ignition switch	~
			Starter	G4	White	08 pin	02	White	(+)	Ignition switch	~

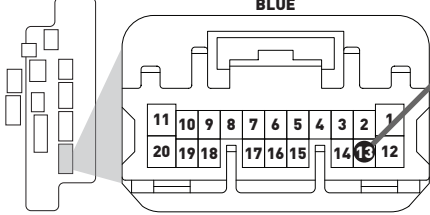
* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).

TYPE 7 - WIRING DIAGRAM - 1 OF 1

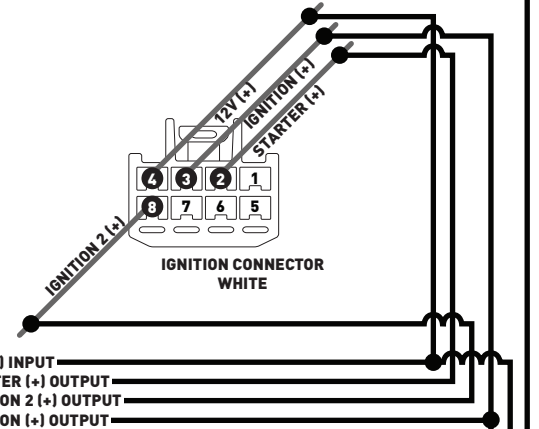
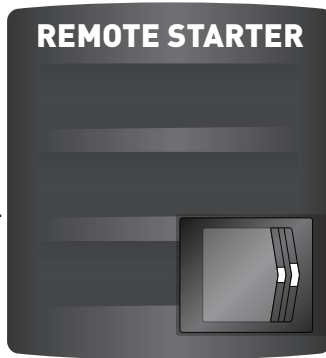
CONNECTION IS ONLY REQUIRED IF REMOTE START CONTROL FROM OEM REMOTES IS DESIRED AND VEHICLE IS EQUIPPED WITH TIRE PRESSURE MONITORING SYSTEM (TPMS).

PASSENGER KICK PANEL

BLUE



THE SECURITY AND TPMS LIGHT WILL FLASH DURING THE REMOTE START SEQUENCE AND WILL TURN OFF UPON VEHICLE TAKEOVER.



12V (+) INPUT
STARTER (+) OUTPUT
IGNITION 2 (+) OUTPUT
IGNITION (+) OUTPUT

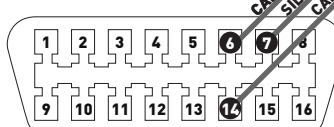
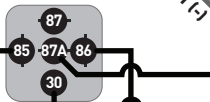
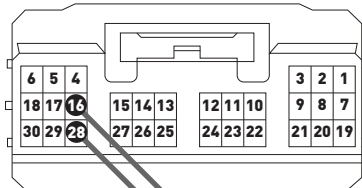
GROUND WHEN RUNNING (-) OUTPUT

*BLADE CONNECTOR EXACT PIN-OUT

WHITE/RED	10	20	WHITE/BLACK
WHITE	09	19	NO WIRE
PINK/BLACK	08	18	PINK
NO WIRE	07	17	BLACK
BROWN/RED	06	16	BROWN/YELLOW
ORANGE/BLACK	05	15	ORANGE/WHITE
ORANGE	04	14	NO WIRE
BLUE/RED	03	13	BLUE/YELLOW
GREEN/RED	02	12	YELLOW
GRAY/RED	01	11	GRAY/YELLOW

- WHITE/BLACK - TPMS IGNITION (+) CONNECTOR
- WHITE/RED - TPMS IGNITION (+) VEHICLE
- WHITE (NC)
- YELLOW (NC)
- BROWN/RED - CANH
- BROWN/YELLOW - CANL
- ORANGE/BLACK - SIL
- ORANGE/WHITE (NC)
- ORANGE (NC)
- PINK/BLACK (NC)
- PINK - IGNITION (+) INPUT
- BLUE/RED (NC)
- BLUE/YELLOW (NC)
- GREEN/RED - RDA (DATA)
- GRAY/RED - GROUND (-) INPUT
- GRAY/YELLOW (NC)
- BLACK (NC)

BELOW DASH FUSE BOX
WHITE CONNECTOR



NOTE 1:
CONNECT TO GROUND
IF VEHICLE IS NOT EQUIPPED
WITH IMMOBILIZER

WITHOUT
OEM HOOD
STATUS ONLY

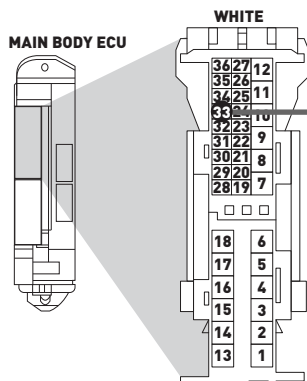
TYPE 8 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Tacoma STD key (H)	16-17	CanH	~	White	16 pin	06	Blue	(DATA)	OBDII	~
			CanL	~	White	16 pin	14	White	(DATA)	OBDII	~
			SIL	E13	White	16 pin	07	White	(DATA)	OBDII	~
			RDA	~	White	30 pin	04	Black	(DATA)	Body ECU next to dash fuse box	~
			TPMS ignition*	1H	White	36 pin	33	LtGreen	(+)	Dash fuse box	~
			Autolights	~	White	30 pin	08	White	(-)	Body ECU next to dash fuse box	~
			12V	~	White	08 pin	04	Red	(+)	Ignition switch	~
			Ignition	~	White	08 pin	03	Black	(+)	Ignition switch	~
			Ignition 2	~	White	08 pin	08	White	(+)	Ignition switch	~
			Starter	~	White	08 pin	02	Green	(+)	Ignition switch	~
Starter 2	~	White	08 pin	06	Purple	(+)	Ignition switch	~			

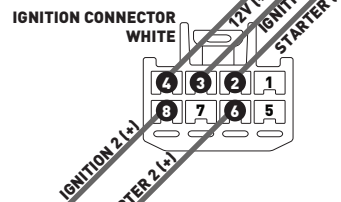
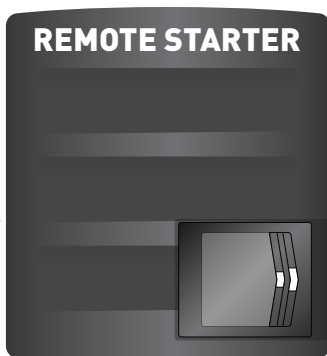
* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).

TYPE 8 - WIRING DIAGRAM - 1 OF 1

CONNECTION IS ONLY REQUIRED IF REMOTE START CONTROL FROM OEM REMOTES IS DESIRED AND VEHICLE IS EQUIPPED WITH TIRE PRESSURE MONITORING SYSTEM (TPMS).



THE SECURITY AND TPMS LIGHT WILL FLASH DURING THE REMOTE START SEQUENCE AND WILL TURN OFF UPON VEHICLE TAKEOVER.



STARTER 2 (+) OUTPUT
12V (+) INPUT
STARTER (+) OUTPUT
IGNITION 2 (+) OUTPUT
IGNITION (+) OUTPUT

GROUND WHEN RUNNING (-) OUTPUT

*BLADE CONNECTOR EXACT PIN-OUT

WHITE/RED	10	20	WHITE/BLACK
WHITE	09	19	NO WIRE
PINK/BLACK	08	18	PINK
NO WIRE	07	17	BLACK
BROWN/RED	06	16	BROWN/YELLOW
ORANGE/BLACK	05	15	ORANGE/WHITE
ORANGE	04	14	NO WIRE
BLUE/RED	03	13	BLUE/YELLOW
GREEN/RED	02	12	YELLOW
GRAY/RED	01	11	GRAY/YELLOW

WHITE/BLACK - TPMS IGNITION (+) CONNECTOR

WHITE/RED - TPMS IGNITION (+) VEHICLE

WHITE (NC)

YELLOW (NC)

BROWN/RED - CANH

BROWN/YELLOW - CANL

ORANGE/BLACK - SIL

ORANGE/WHITE (NC)

ORANGE (NC)

PINK/BLACK (NC)

PINK - IGNITION (+) INPUT

BLUE/RED (NC)

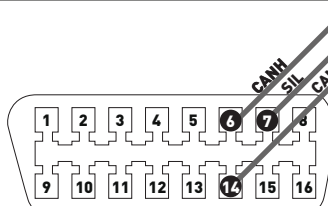
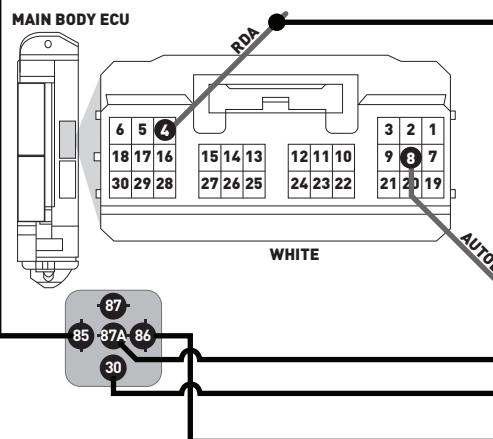
BLUE/YELLOW (NC)

GREEN/RED - RDA (DATA)

GRAY/RED - GROUND (-) INPUT

GRAY/YELLOW (NC)

BLACK (NC)



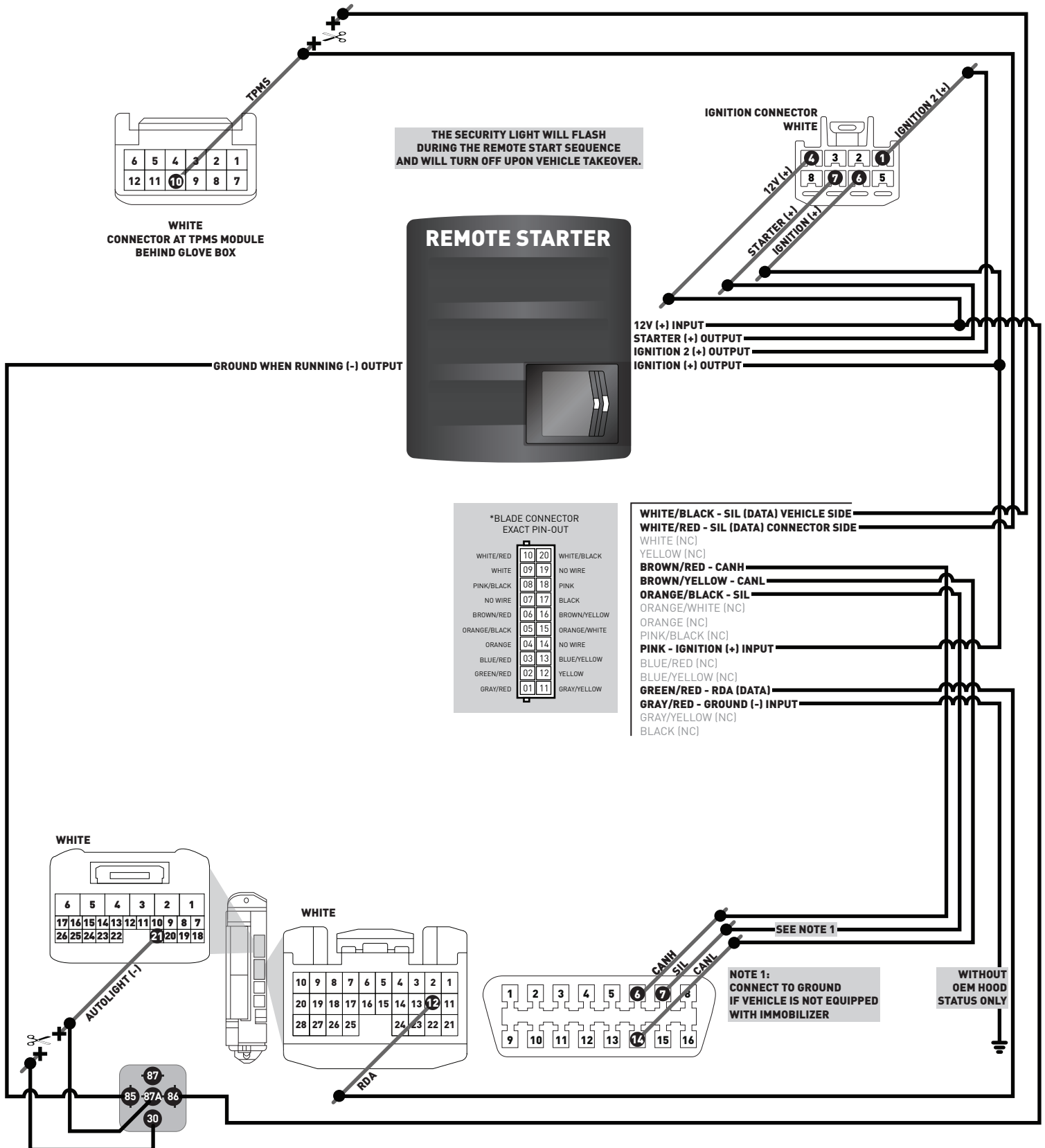
NOTE 1:
CONNECT TO GROUND
IF VEHICLE IS NOT EQUIPPED
WITH IMMOBILIZER

WITHOUT
OEM HOOD
STATUS
ONLY

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	Sequoia STD key (H)	15-17	CanH	E13	White	16 pin	06	Purple	(DATA)	OBDII	~
			CanL	E13	White	16 pin	14	White	(DATA)	OBDII	~
			SIL	E13	White	16 pin	07	Beige	(DATA)	OBDII	~
			TPMS	~	White	12 pin	10	Blue	(DATA)	TPMS module behind glove box	~
			RDA	H3	White	28 pin	12	Purple	(DATA)	Body ECU next to dash fuse box	~
			12V	I36	White	08 pin	04	White	(+)	Ignition switch	~
			Ignition	I36	White	08 pin	06	Black	(+)	Ignition switch	~
			Ignition 2	I36	White	08 pin	01	LtGreen	(+)	Ignition switch	~
			Starter	I36	White	08 pin	07	Green	(+)	Ignition switch	~
Autolights	~	White	26 pin	21	Green	(-)	Body ECU next to dash fuse box	~			

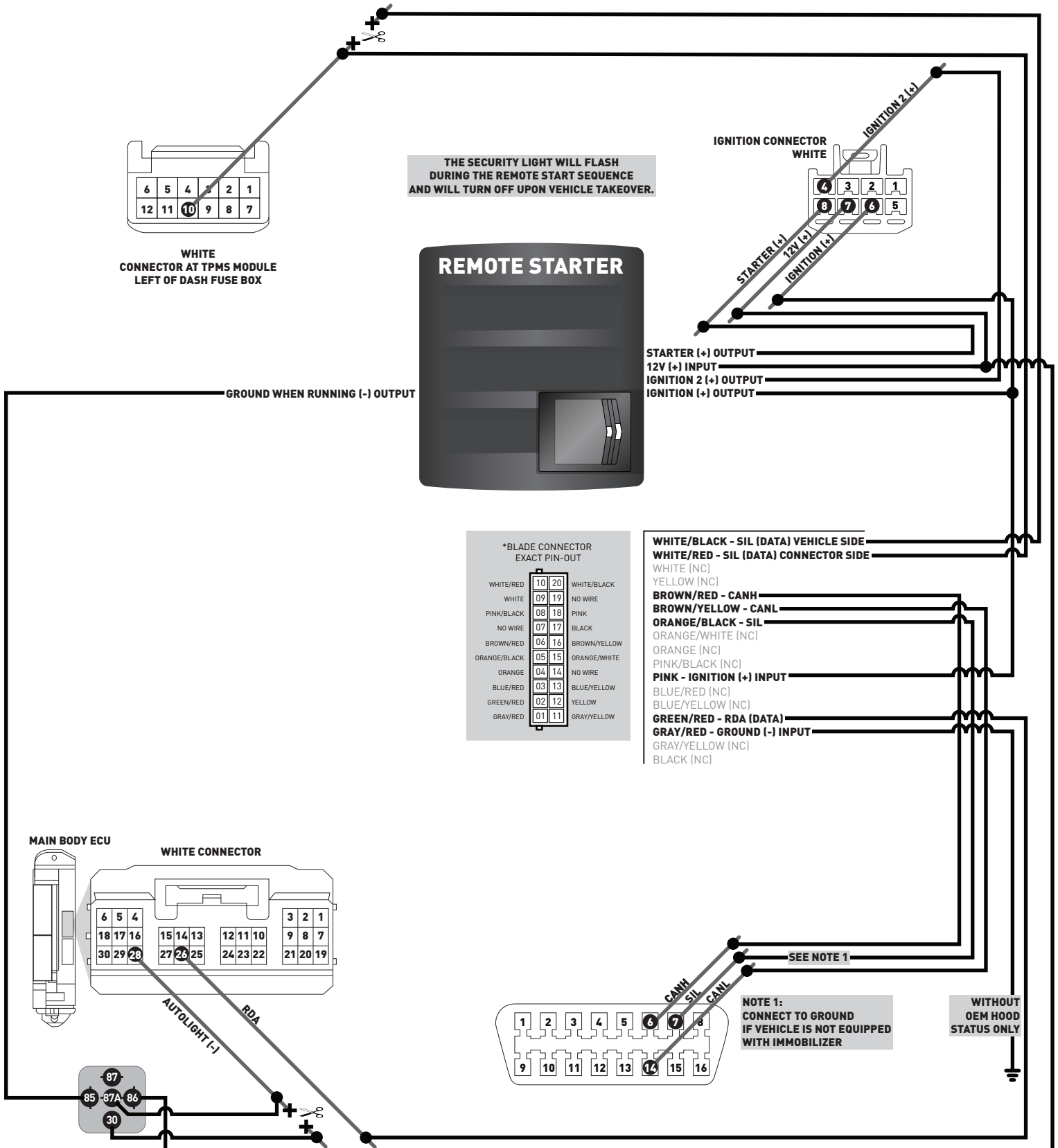
TYPE 9 - WIRING DIAGRAM - 1 OF 1



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	Sienna STD key (H)	15-17	CanH	E13	White	16 pin	06	Red	(DATA)	OBDII	~
			CanL	E13	White	16 pin	14	White	(DATA)	OBDII	~
			SIL	E13	White	16 pin	07	White	(DATA)	OBDII	~
			TPMS	~	White	12 pin	10	White	(DATA)	TPMS module near dash fuse box	~
			RDA	D13	White	30 pin	26	Pink	(DATA)	Body ECU next to dash fuse box	~
			12V	D27	White	08 pin	07	Red	(+)	Ignition switch	~
			Ignition	D27	White	08 pin	06	Black	(+)	Ignition switch	~
			Ignition 2	D27	White	08 pin	04	Yellow	(+)	Ignition switch	~
			Starter	D27	White	08 pin	08	Red	(+)	Ignition switch	~
Autolights	D13	White	30 pin	28	Purple	(-)	Body ECU next to dash fuse box	~			

TYPE 10 - WIRING DIAGRAM - 1 OF 1



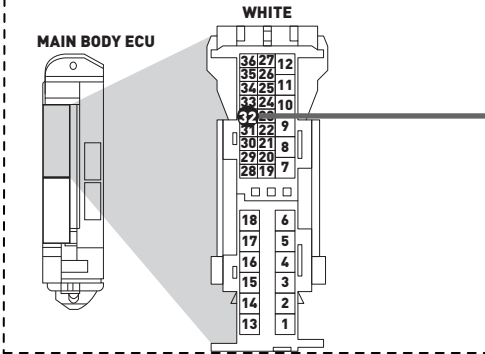
TYPE 11 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Prius C STD key (H)	17-19	CanH	~	White	30 pin	14	Tan	(DATA)	Body ECU next to dash fuse box	~
			CanL	~	White	30 pin	13	White	(DATA)	Body ECU next to dash fuse box	~
			SIL	E13	White	16 pin	07	Black	(DATA)	OBDII	~
			RDA	~	White	30 pin	16	LtGreen	(DATA)	Body ECU next to dash fuse box	~
			TPMS ignition*	3D	White	36 pin	32	Blue	(+)	Dash fuse box	~
			Autolights	~	White	30 pin	28	Red	(-)	Body ECU next to dash fuse box	~
			12V	~	White	08 pin	04	Black	(+)	Ignition switch	~
			Ignition	~	White	08 pin	06	Pink	(+)	Ignition switch	~
			Ignition 2	~	White	08 pin	01	LtBlue	(+)	Ignition switch	~
			Starter	~	White	08 pin	07	Green	(+)	Ignition switch	~

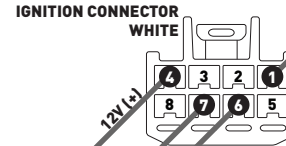
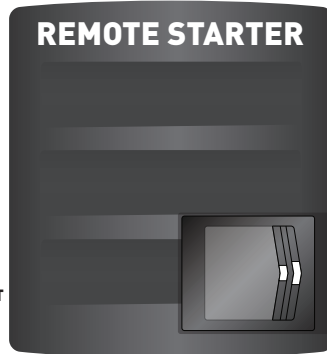
* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).

TYPE 11 - WIRING DIAGRAM - 1 OF 1

CONNECTION IS ONLY REQUIRED IF REMOTE START CONTROL FROM OEM REMOTES IS DESIRED AND VEHICLE IS EQUIPPED WITH TIRE PRESSURE MONITORING SYSTEM (TPMS).



THE SECURITY AND TPMS LIGHT WILL FLASH DURING THE REMOTE START SEQUENCE AND WILL TURN OFF UPON VEHICLE TAKEOVER.



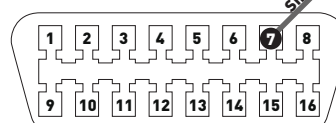
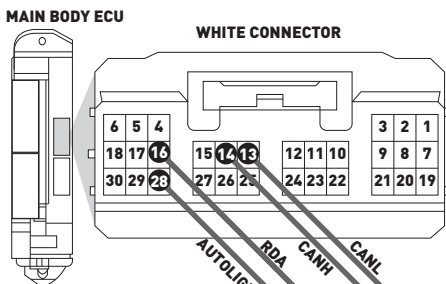
12V (+) INPUT
STARTER (+) OUTPUT
IGNITION 2 (+) OUTPUT
IGNITION (+) OUTPUT

GROUND WHEN RUNNING (-) OUTPUT

*BLADE CONNECTOR EXACT PIN-OUT

WHITE/RED	10	20	WHITE/BLACK
WHITE	09	19	NO WIRE
PINK/BLACK	08	18	PINK
NO WIRE	07	17	BLACK
BROWN/RED	06	16	BROWN/YELLOW
ORANGE/BLACK	05	15	ORANGE/WHITE
ORANGE	04	14	NO WIRE
BLUE/RED	03	13	BLUE/YELLOW
GREEN/RED	02	12	YELLOW
GRAY/RED	01	11	GRAY/YELLOW

WHITE/BLACK - TPMS IGNITION (+) CONNECTOR
WHITE/RED - TPMS IGNITION (+) VEHICLE
WHITE (NC)
YELLOW (NC)
BROWN/RED - CANH
BROWN/YELLOW - CANL
ORANGE/BLACK - SIL
ORANGE/WHITE (NC)
ORANGE (NC)
PINK/BLACK (NC)
PINK - IGNITION (+) INPUT
BLUE/RED (NC)
BLUE/YELLOW (NC)
GREEN/RED - RDA (DATA)
GRAY/RED - GROUND (-) INPUT
GRAY/YELLOW (NC)
BLACK (NC)



NOTE 1:
CONNECT TO GROUND
IF VEHICLE IS NOT EQUIPPED
WITH IMMOBILIZER

WITHOUT
OEM HOOD
STATUS ONLY

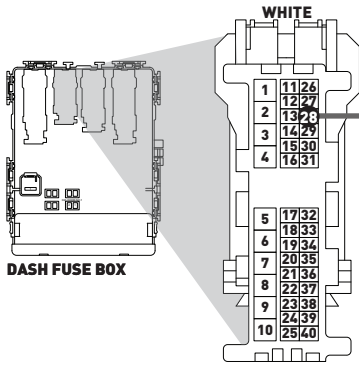
TYPE 12 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Corolla iM STD key (H)	17-18	CanH	E31	White	30 pin	14	Green	(DATA)	Below dash junction box	~
			CanL	E31	White	30 pin	13	White	(DATA)	Below dash junction box	~
			SIL	E13	White	16 pin	07	LtGreen	(DATA)	OBDII	~
			RDA	E31	White	30 pin	16	Green	(DATA)	Below dash junction box	~
			TPMS ignition*	3E	White	36 pin	28	Blue	(+)	Dash fuse box	
			Autolights	E31	White	30 pin	28	Purple	(-)	Below dash junction box	~
			12V	E4	White	08 pin	04	Blue	(+)	Ignition switch	~
			Ignition	E4	White	08 pin	03	Gray	(+)	Ignition switch	~
			Ignition 2	E4	White	08 pin	08	Green	(+)	Ignition switch	~
			Starter	E4	White	08 pin	02	White	(+)	Ignition switch	~
	Corolla STD key (H)	17-19	CanH	E31	White	30 pin	14	Black	(DATA)	Below dash junction box	~
			CanL	E31	White	30 pin	13	White	(DATA)	Below dash junction box	~
			SIL	E13	White	16 pin	07	LtGreen	(DATA)	OBDII	~
			RDA	E31	White	30 pin	16	Green	(DATA)	Below dash junction box	~
			TPMS ignition*	3E	White	36 pin	28	Blue	(+)	Dash fuse box	
			Autolights	E31	White	30 pin	28	Purple	(-)	Below dash junction box	~
			12V	E4	White	08 pin	04	Blue	(+)	Ignition switch	~
			Ignition	E4	White	08 pin	03	Gray	(+)	Ignition switch	~
			Ignition 2	E4	White	08 pin	08	Green	(+)	Ignition switch	~
			Starter	E4	White	08 pin	02	White	(+)	Ignition switch	~

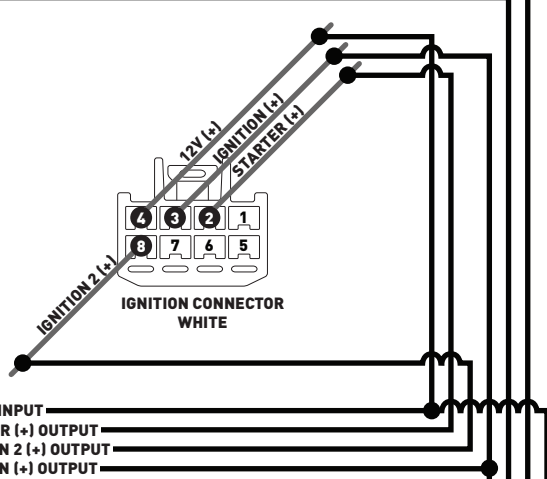
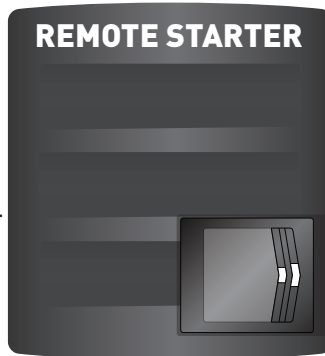
* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).

TYPE 12 - WIRING DIAGRAM - 1 OF 1

CONNECTION IS ONLY REQUIRED IF REMOTE START CONTROL FROM OEM REMOTES IS DESIRED AND VEHICLE IS EQUIPPED WITH TIRE PRESSURE MONITORING SYSTEM (TPMS).



THE SECURITY AND TPMS LIGHT WILL FLASH DURING THE REMOTE START SEQUENCE AND WILL TURN OFF UPON VEHICLE TAKEOVER.



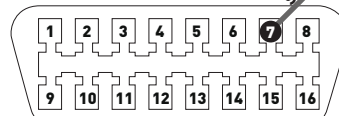
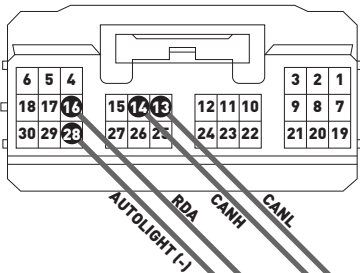
GROUND WHEN RUNNING (-) OUTPUT

*BLADE CONNECTOR EXACT PIN-OUT

WHITE/RED	10	20	WHITE/BLACK
WHITE	09	19	NO WIRE
PINK/BLACK	08	18	PINK
NO WIRE	07	17	BLACK
BROWN/RED	06	16	BROWN/YELLOW
ORANGE/BLACK	05	15	ORANGE/WHITE
ORANGE	04	14	NO WIRE
BLUE/RED	03	13	BLUE/YELLOW
GREEN/RED	02	12	YELLOW
GRAY/RED	01	11	GRAY/YELLOW

- WHITE/BLACK - TPMS IGNITION (+) CONNECTOR
- WHITE/RED - TPMS IGNITION (+) VEHICLE
- YELLOW (NC)
- BROWN/RED - CANH
- BROWN/YELLOW - CANL
- ORANGE/BLACK - SIL
- ORANGE/WHITE (NC)
- ORANGE (NC)
- PINK/BLACK (NC)
- PINK - IGNITION (+) INPUT
- BLUE/RED (NC)
- BLUE/YELLOW (NC)
- GREEN/RED - RDA (DATA)
- GRAY/RED - GROUND (-) INPUT
- GRAY/YELLOW (NC)
- BLACK (NC)

BELOW DASH FUSE BOX WHITE CONNECTOR



NOTE 1: CONNECT TO GROUND IF VEHICLE IS NOT EQUIPPED WITH IMMOBILIZER

WITHOUT OEM HOOD STATUS ONLY

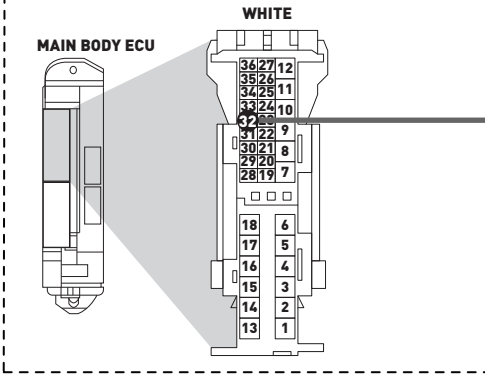
TYPE 13 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Yaris Hatchback STD key (H) w/o OEM alarm	17-19	CanH	D143	White	30 pin	14	Red	(DATA)	Body ECU next to dash fuse box	~
			CanL	D143	White	30 pin	13	White	(DATA)	Body ECU next to dash fuse box	~
			SIL	E13	White	16 pin	07	Black	(DATA)	OBDII	~
			RDA	D143	White	30 pin	16	Pink	(DATA)	Body ECU next to dash fuse box	~
			TPMS ignition*	3D	White	36 pin	32	Blue	(+)	Dash fuse box	~
			12V	D109	White	08 pin	04	Yellow	(+)	Ignition switch	~
			Ignition	D109	White	08 pin	06	Pink	(+)	Ignition switch	~
			Ignition 2	D109	White	08 pin	01	LtBlue	(+)	Ignition switch	~
	Starter	D109	White	08 pin	07	Green	(+)	Ignition switch	~		
	Yaris Hatchback STD key (H) with OEM alarm	17-19	CanH	D143	White	30 pin	14	Red	(DATA)	Body ECU next to dash fuse box	~
			CanL	D143	White	30 pin	13	White	(DATA)	Body ECU next to dash fuse box	~
			SIL	E13	White	16 pin	07	Black	(DATA)	OBDII	~
			RDA	D143	White	30 pin	26	Pink	(DATA)	Body ECU next to dash fuse box	~
			TPMS ignition*	3D	White	36 pin	32	Blue	(+)	Dash fuse box	~
			12V	D109	White	08 pin	04	Yellow	(+)	Ignition switch	~
			Ignition	D109	White	08 pin	06	Pink	(+)	Ignition switch	~
Ignition 2			D109	White	08 pin	01	LtBlue	(+)	Ignition switch	~	
Starter	D109	White	08 pin	07	Green	(+)	Ignition switch	~			

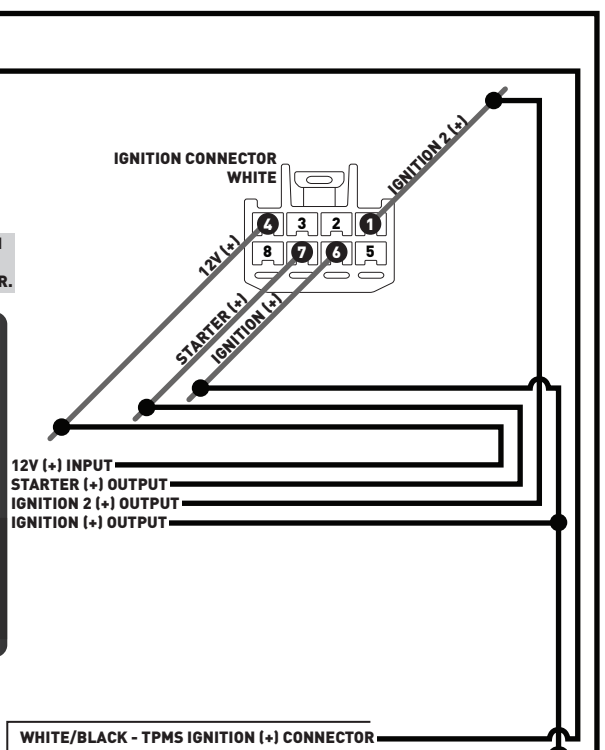
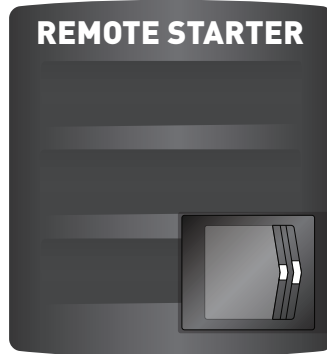
* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).

TYPE 13 - WIRING DIAGRAM - 1 OF 1

CONNECTION IS ONLY REQUIRED IF REMOTE START CONTROL FROM OEM REMOTES IS DESIRED AND VEHICLE IS EQUIPPED WITH TIRE PRESSURE MONITORING SYSTEM (TPMS).



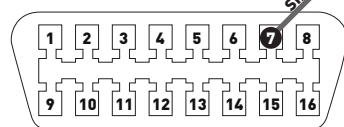
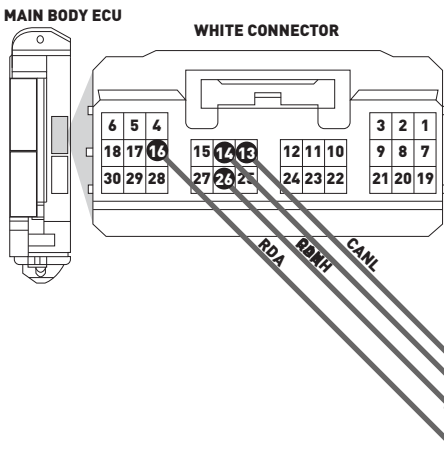
THE SECURITY AND TPMS LIGHT WILL FLASH DURING THE REMOTE START SEQUENCE AND WILL TURN OFF UPON VEHICLE TAKEOVER.



*BLADE CONNECTOR EXACT PIN-OUT

WHITE/RED	10	20	WHITE/BLACK
WHITE	09	19	NO WIRE
PINK/BLACK	08	18	PINK
NO WIRE	07	17	BLACK
BROWN/RED	06	16	BROWN/YELLOW
ORANGE/BLACK	05	15	ORANGE/WHITE
ORANGE	04	14	NO WIRE
BLUE/RED	03	13	BLUE/YELLOW
GREEN/RED	02	12	YELLOW
GRAY/RED	01	11	GRAY/YELLOW

- WHITE/BLACK - TPMS IGNITION (+) CONNECTOR
- WHITE/RED - TPMS IGNITION (+) VEHICLE
- WHITE (NC)
- YELLOW (NC)
- BROWN/RED - CANH
- BROWN/YELLOW - CANL
- ORANGE/BLACK - SIL
- ORANGE/WHITE (NC)
- ORANGE (NC)
- PINK/BLACK (NC)
- PINK - IGNITION (+) INPUT
- BLUE/RED (NC)
- BLUE/YELLOW (NC)
- GREEN/RED - RDA (DATA)
- GRAY/RED - GROUND (-) INPUT
- GRAY/YELLOW (NC)
- BLACK (NC)



NOTE 1:
CONNECT TO GROUND IF VEHICLE IS NOT EQUIPPED WITH IMMOBILIZER

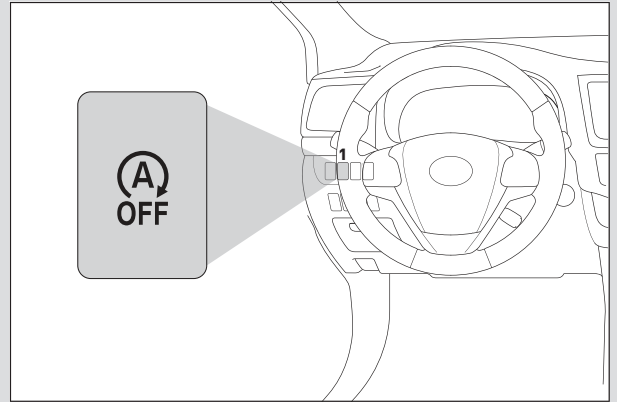
WITHOUT OEM HOOD STATUS ONLY

TYPE 14 - TECHNICAL NOTES - 1 OF 1

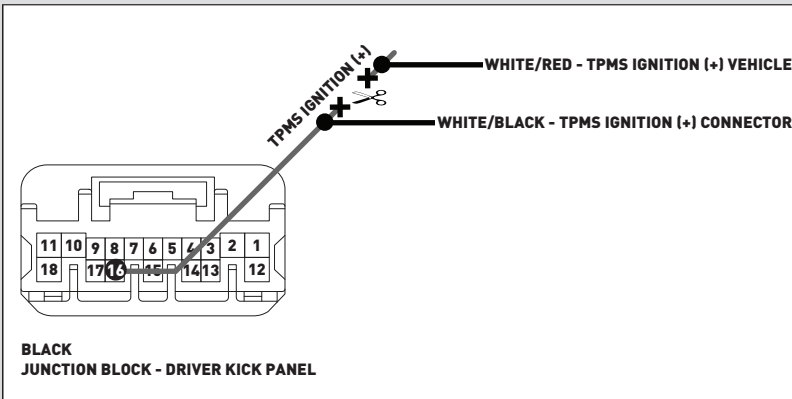
IMPORTANT

- Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (tpms).

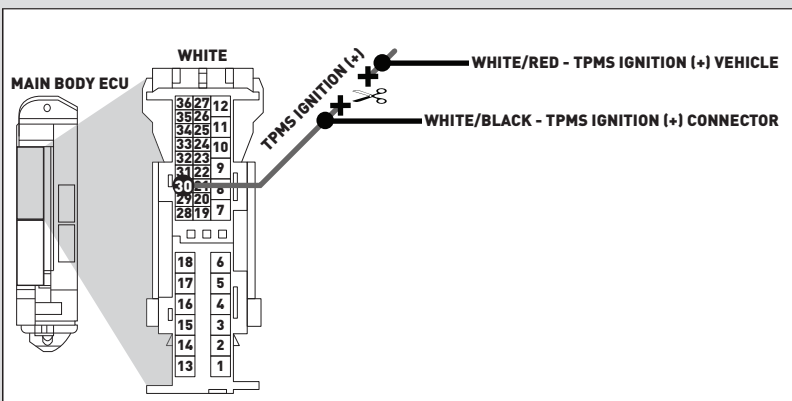
Look for this switch to determine if the vehicle is equipped with the stop & start system:



WITH STOP & START SYSTEM:



WITHOUT STOP & START SYSTEM:



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	Highlander STD key (H)	17-18	CanH	F19	White	30 pin	14	Red	(DATA)	Body ECU next to dash fuse box	~
			CanL	F19	White	30 pin	13	White	(DATA)	Body ECU next to dash fuse box	~
			SIL	E13	White	16 pin	07	LtBlue	(DATA)	OBDS	~
			RDA	F19	White	30 pin	04	LtGreen	(DATA)	Body ECU next to dash fuse box	~
			TPMS ignition* w/o Stop & Start	4H	White	36 pin	30	Yellow	(+)	Dash fuse box	~
			TPMS ignition* w/ Stop & Start	FM1	Black	18 pin	16	Red	(+)	Junction block, driver kick panel	~
			Autolights	F19	White	30 pin	08	Black	(-)	Body ECU next to dash fuse box	~
			12V	F50	White	08 pin	04	Black or Tan	(+)	Ignition switch	~
			Ignition 1	F50	White	08 pin	03	Black	(+)	Ignition switch	~
			Ignition 2	F50	White	08 pin	08	Green	(+)	Ignition switch	~
			Starter 2**	F50	White	08 pin	02	Blue	(+)	Ignition switch	~
Starter 1	F50	White	08 pin	06	Gray	(+)	Ignition switch	~			

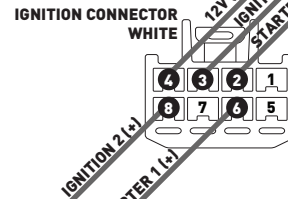
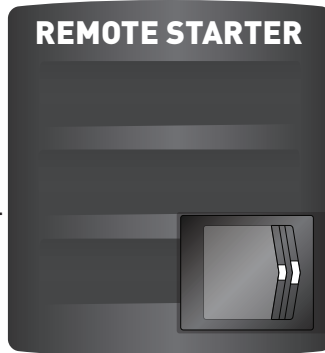
* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS). See technical note for Stop & Start System identification.

** Wire may not be present.

TYPE 14 - WIRING DIAGRAM - 1 OF 1

REFER TO
TECHNICAL NOTE

THE SECURITY AND TPMS LIGHT WILL FLASH
DURING THE REMOTE START SEQUENCE
AND WILL TURN OFF UPON VEHICLE TAKEOVER.



STARTER 1 (+) OUTPUT
12V (+) INPUT
STARTER 2 (+) OUTPUT
IGNITION 2 (+) OUTPUT
IGNITION 1 (+) OUTPUT

GROUND WHEN RUNNING (-) OUTPUT

*BLADE CONNECTOR
EXACT PIN-OUT

WHITE/RED	10	20	WHITE/BLACK
WHITE	09	19	NO WIRE
PINK/BLACK	08	18	PINK
NO WIRE	07	17	BLACK
BROWN/RED	06	16	BROWN/YELLOW
ORANGE/BLACK	05	15	ORANGE/WHITE
ORANGE	04	14	NO WIRE
BLUE/RED	03	13	BLUE/YELLOW
GREEN/RED	02	12	YELLOW
GRAY/RED	01	11	GRAY/YELLOW

WHITE/BLACK - TPMS IGNITION (+) CONNECTOR

WHITE/RED - TPMS IGNITION (+) VEHICLE

WHITE (NC)

YELLOW (NC)

BROWN/RED - CANH

BROWN/YELLOW - CANL

ORANGE/BLACK - SIL

ORANGE/WHITE (NC)

ORANGE (NC)

PINK/BLACK (NC)

PINK - IGNITION (+) INPUT

BLUE/RED (NC)

BLUE/YELLOW (NC)

GREEN/RED - RDA (DATA)

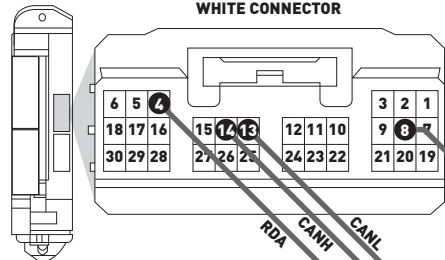
GRAY/RED - GROUND (-) INPUT

GRAY/YELLOW (NC)

BLACK (NC)

MAIN BODY ECU

WHITE CONNECTOR



SEE NOTE 1

NOTE 1:
CONNECT TO GROUND
IF VEHICLE IS NOT EQUIPPED
WITH IMMOBILIZER

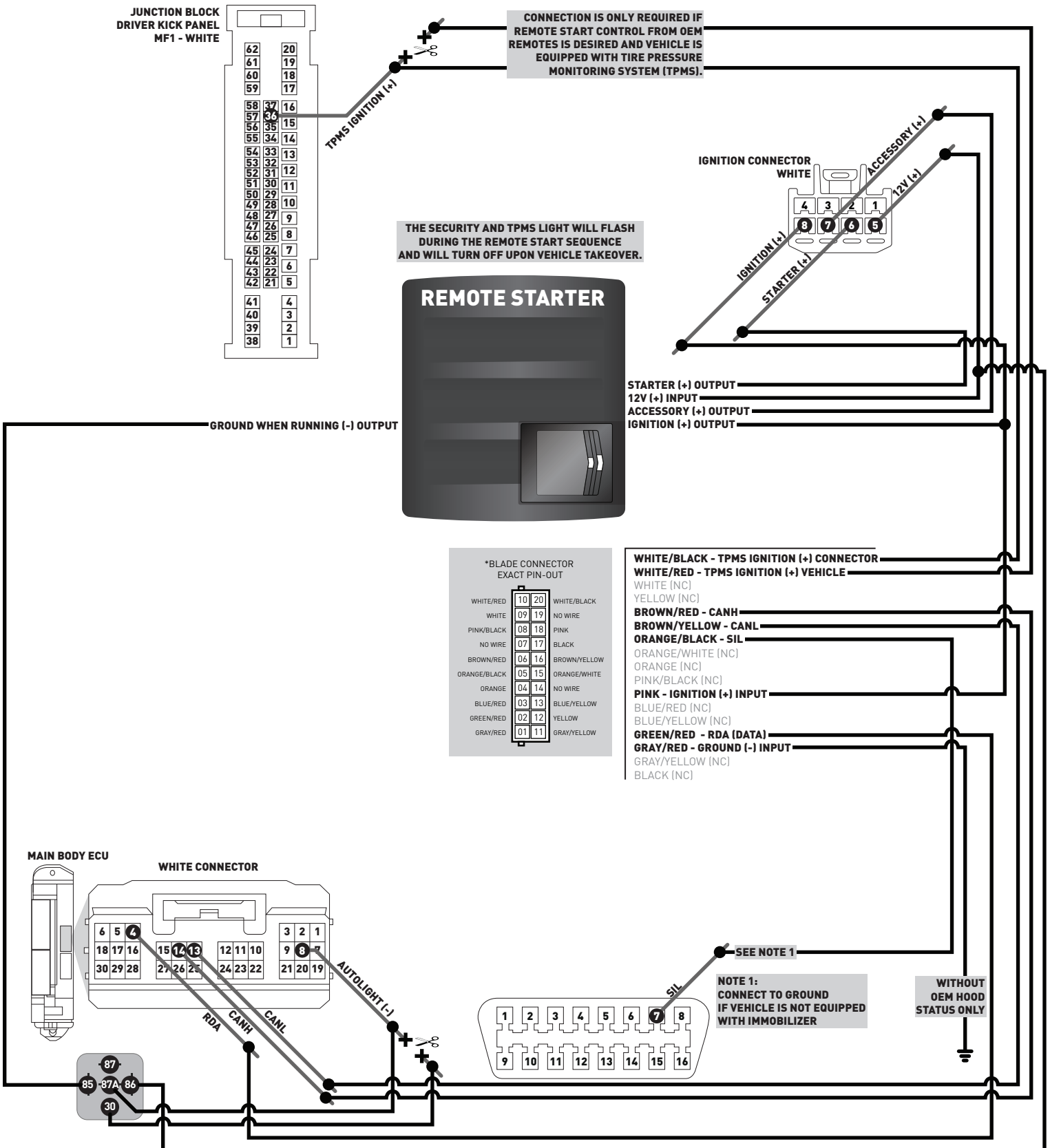
WITHOUT
OEM HOOD
STATUS ONLY

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	C-HR STD key (H)	18-19	CanH	~	White	30 pin	14	Green	(DATA)	Body ECU next to dash fuse box	~
			CanL	~	White	30 pin	13	LtBlue	(DATA)	Body ECU next to dash fuse box	~
			SIL	~	White	16 pin	07	LtBlue	(DATA)	OBDII	~
			RDA	~	White	30 pin	04	LtGreen	(DATA)	Body ECU next to dash fuse box	~
			TPMS ignition*	MF1	White	62 pin	36	LtBlue	(+)	Junction block, driver kick panel	~
			Autolights	~	White	30 pin	08	White	(-)	Body ECU next to dash fuse box	~
			12V	~	White	08 pin	05	Blue	(+)	Ignition switch	~
			Ignition	~	White	08 pin	08	Gray	(+)	Ignition switch	~
			Starter	~	White	08 pin	06	Purple	(+)	Ignition switch	~
			Accessory	~	White	08 pin	07	Green	(+)	Ignition switch	~

* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).

TYPE 15 - WIRING DIAGRAM - 1 OF 1



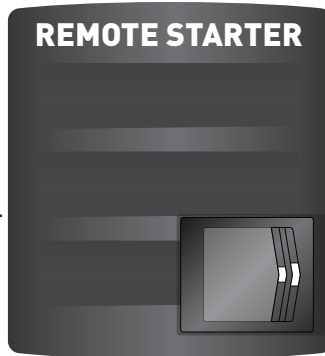
TYPE 16 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Camry STD key (H)	18-20	CanH	K52	Black	30 pin	05	Tan	(DATA)	Body ECU next to dash fuse box	~
			CanL	K52	Black	30 pin	04	White	(DATA)	Body ECU next to dash fuse box	~
			SIL	~	White	16 pin	07	Blue	(DATA)	OBDII	~
			RDA	K53	Black	21 pin	10	Red	(DATA)	Body ECU next to dash fuse box	~
			TPMS ignition*	3D	White	36 pin	35	LtPurple/Black	(+)	Body ECU next to dash fuse box	~
			Autolights	~	White	40 pin	05	White or Yellow	(-)	Headlamp switch	~
			12V	K30	White	08 pin	07	LtPurple/White	(+)	Ignition switch	~
			Ignition	K30	White	08 pin	08	LtPurple/Red	(+)	Ignition switch	~
			Starter	K30	White	08 pin	05	LtPurple/Purple	(+)	Ignition switch	~
			Accessory	K30	White	08 pin	06	LtGreen	(+)	Ignition switch	~

* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).

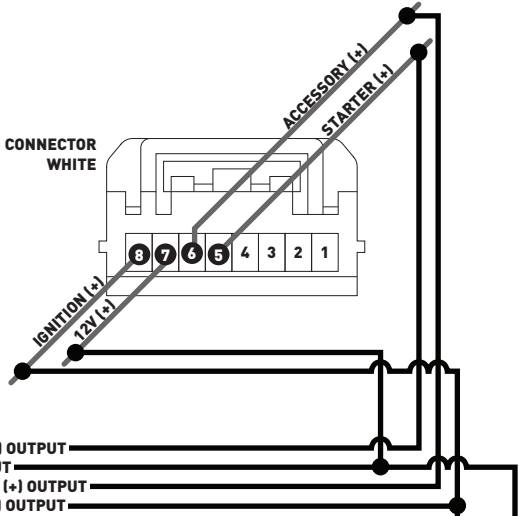
TYPE 16 - WIRING DIAGRAM - 1 OF 2

THE SECURITY AND TPMS LIGHT WILL FLASH DURING THE REMOTE START SEQUENCE AND WILL TURN OFF UPON VEHICLE TAKEOVER.



GROUND WHEN RUNNING (-) OUTPUT

IGNITION CONNECTOR
WHITE



STARTER (+) OUTPUT
12V (+) INPUT
ACCESSORY (+) OUTPUT
IGNITION (+) OUTPUT

*BLADE CONNECTOR
EXACT PIN-OUT

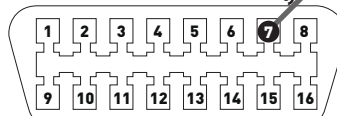
WHITE/RED	10	20	WHITE/BLACK
WHITE	09	19	NO WIRE
PINK/BLACK	08	18	PINK
NO WIRE	07	17	BLACK
BROWN/RED	06	16	BROWN/YELLOW
ORANGE/BLACK	05	15	ORANGE/WHITE
ORANGE	04	14	NO WIRE
BLUE/RED	03	13	BLUE/YELLOW
GREEN/RED	02	12	YELLOW
GRAY/RED	01	11	GRAY/YELLOW

WHITE/BLACK - TPMS IGNITION (+) CONNECTOR
 WHITE/RED - TPMS IGNITION (+) VEHICLE
 WHITE (NC)
 YELLOW (NC)
 BROWN/RED - CANH
 BROWN/YELLOW - CANL
 ORANGE/BLACK - SIL
 ORANGE/WHITE (NC)
 ORANGE (NC)
 PINK/BLACK (NC)
 PINK - IGNITION (+) INPUT
 BLUE/RED (NC)
 BLUE/YELLOW (NC)
 GREEN/RED - RDA (DATA)
 GRAY/RED - GROUND (-) INPUT
 GRAY/YELLOW (NC)
 BLACK (NC)

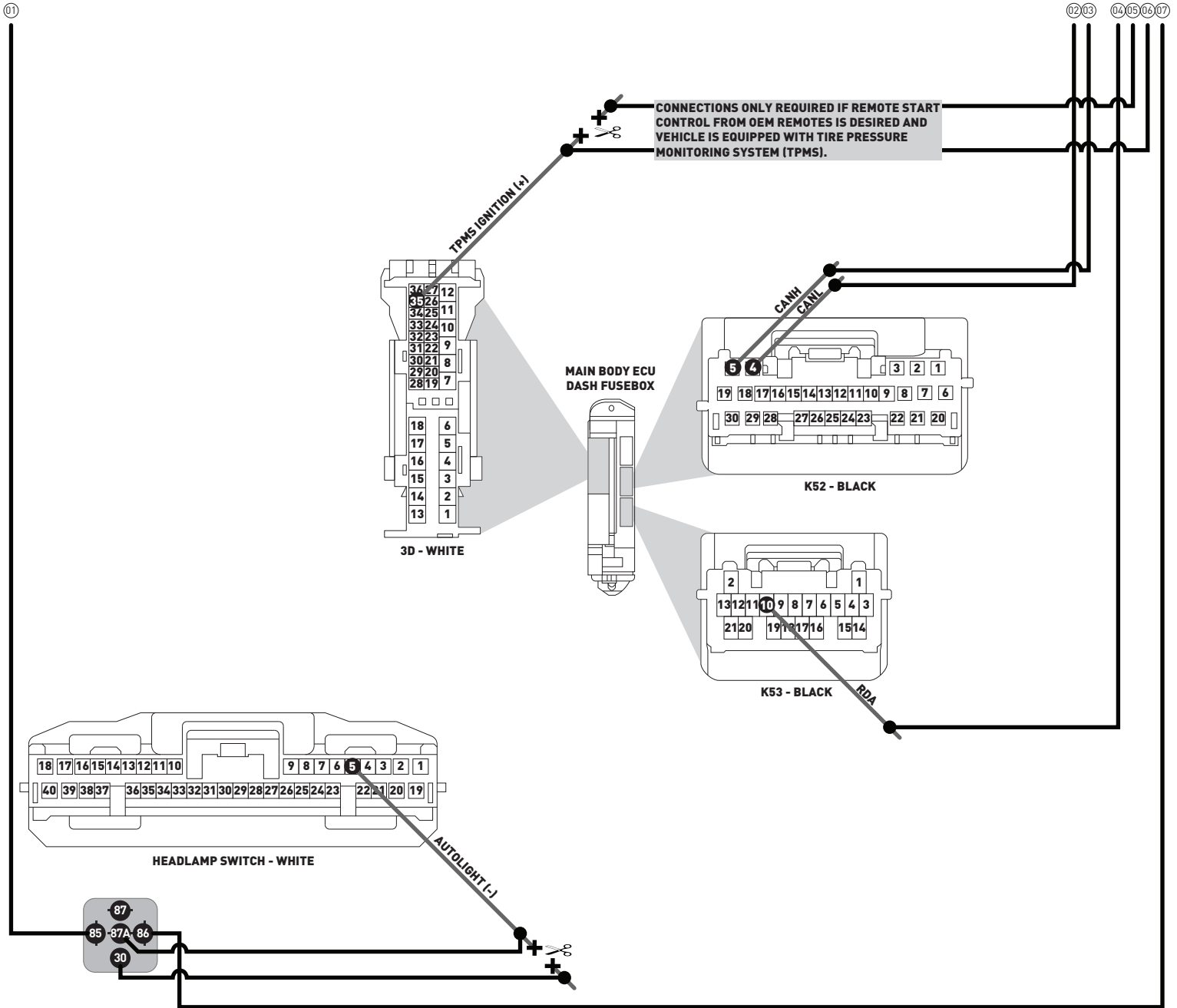
CONNECT TO GROUND
IF VEHICLE IS NOT EQUIPPED
WITH IMMOBILIZER

WITHOUT
OEM HOOD
STATUS ONLY

OBDII CONNECTOR



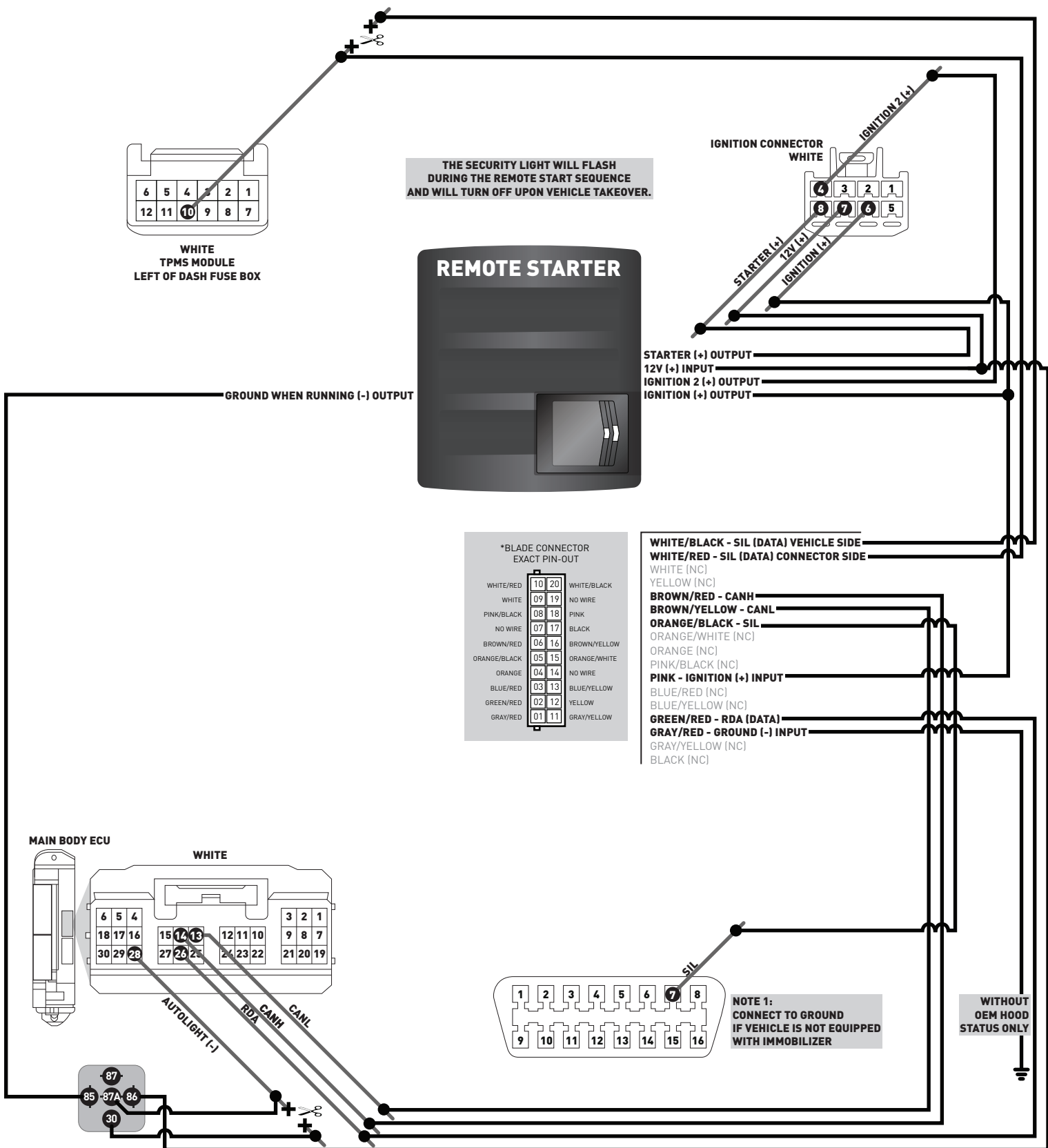
TYPE 16 - WIRING DIAGRAM - 2 OF 2



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	Sienna STD key (H)	18-20	CanH	D13	White	30 pin	14	Gray	(DATA)	Body ECU next to dash fuse box	~
			CanL	D13	White	30 pin	13	White	(DATA)	Body ECU next to dash fuse box	~
			SIL	E13	White	16 pin	07	White or Purple	(DATA)	OBDII	~
			TPMS	~	White	12 pin	10	White	(DATA)	TPMS module near dash fuse box	~
			RDA	D13	White	30 pin	26	Pink	(DATA)	Body ECU next to dash fuse box	~
			12V	D27	White	08 pin	07	Red	(+)	Ignition switch	~
			Ignition	D27	White	08 pin	06	Black	(+)	Ignition switch	~
			Ignition 2	D27	White	08 pin	04	Yellow	(+)	Ignition switch	~
			Starter	D27	White	08 pin	08	Red	(+)	Ignition switch	~
Autolights	D13	White	30 pin	28	Purple	(-)	Body ECU next to dash fuse box	~			

TYPE 17 - WIRING DIAGRAM - 1 OF 1



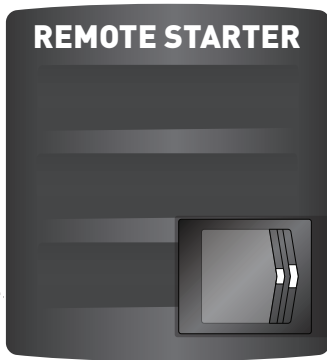
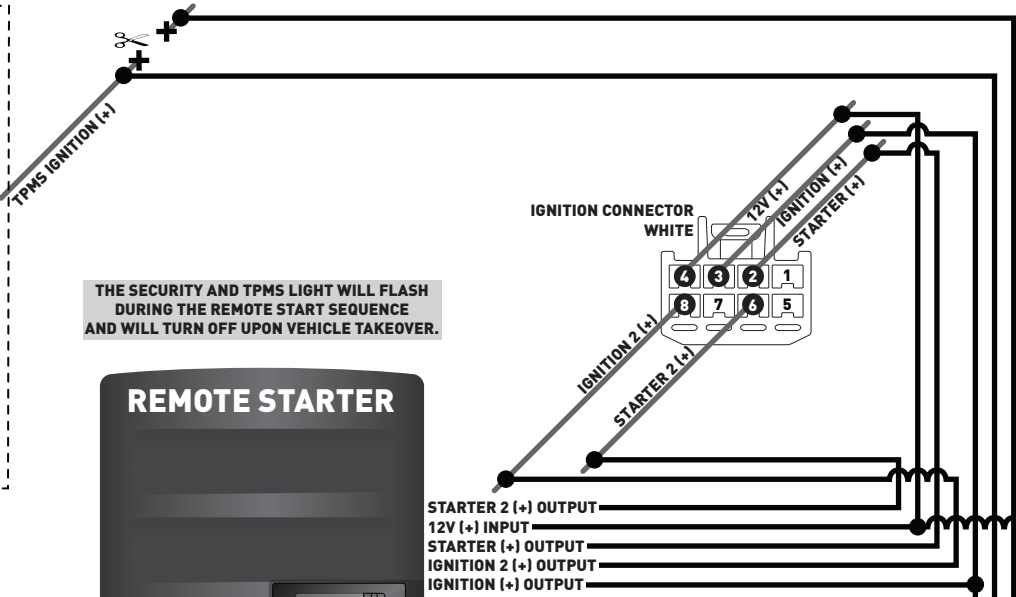
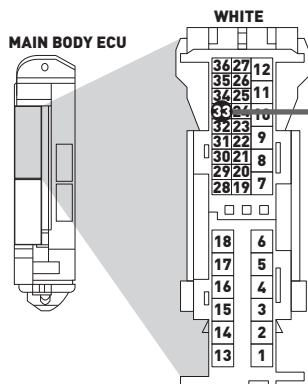
TYPE 18 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Tacoma STD key (H)	18-20	CanH	~	White	30 pin	14	Black	(DATA)	Body ECU next to dash fuse box	~
			CanL	~	White	30 pin	13	White	(DATA)	Body ECU next to dash fuse box	~
			SIL	E13	White	16 pin	07	White	(DATA)	OBDII	~
			RDA	~	White	30 pin	04	Black	(DATA)	Body ECU next to dash fuse box	~
			TPMS ignition*	1H	White	36 pin	33	LtGreen or Pink	(+)	Dash fuse box	~
			Autolights	~	White	30 pin	08	White	(-)	Body ECU next to dash fuse box	~
			12V	~	White	08 pin	04	Red	(+)	Ignition switch	~
			Ignition	~	White	08 pin	03	Black	(+)	Ignition switch	~
			Ignition 2	~	White	08 pin	08	White	(+)	Ignition switch	~
			Starter	~	White	08 pin	02	Green	(+)	Ignition switch	~
			Starter 2	~	White	08 pin	06	Purple	(+)	Ignition switch	~

* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).

TYPE 18 - WIRING DIAGRAM - 1 OF 1

CONNECTION IS ONLY REQUIRED IF REMOTE START CONTROL FROM OEM REMOTES IS DESIRED AND VEHICLE IS EQUIPPED WITH TIRE PRESSURE MONITORING SYSTEM (TPMS).

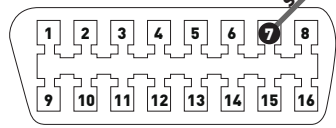
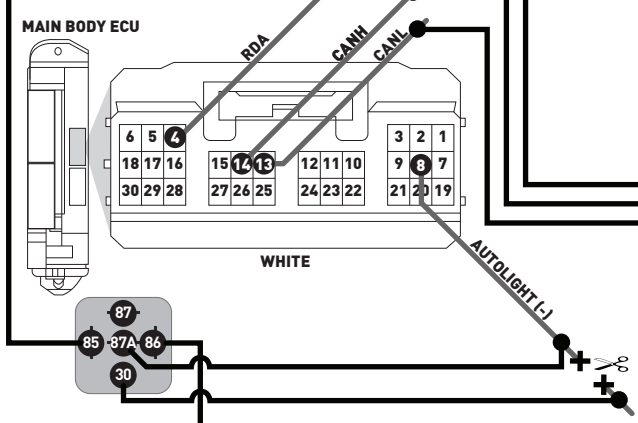


GROUND WHEN RUNNING (-) OUTPUT

*BLADE CONNECTOR EXACT PIN-OUT

WHITE/RED	10	20	WHITE/BLACK
WHITE	09	19	NO WIRE
PINK/BLACK	08	18	PINK
NO WIRE	07	17	BLACK
BROWN/RED	06	16	BROWN/YELLOW
ORANGE/BLACK	05	15	ORANGE/WHITE
ORANGE	04	14	NO WIRE
BLUE/RED	03	13	BLUE/YELLOW
GREEN/RED	02	12	YELLOW
GRAY/RED	01	11	GRAY/YELLOW

- WHITE/BLACK - TPMS IGNITION (+) CONNECTOR
- WHITE/RED - TPMS IGNITION (+) VEHICLE
- WHITE (NC)
- YELLOW (NC)
- BROWN/RED - CANH
- BROWN/YELLOW - CANL
- ORANGE/BLACK - SIL
- ORANGE/WHITE (NC)
- ORANGE (NC)
- PINK/BLACK (NC)
- PINK - IGNITION (+) INPUT
- BLUE/RED (NC)
- BLUE/YELLOW (NC)
- GREEN/RED - RDA (DATA)
- GRAY/RED - GROUND (-) INPUT
- GRAY/YELLOW (NC)
- BLACK (NC)



NOTE 1:
CONNECT TO GROUND IF VEHICLE IS NOT EQUIPPED WITH IMMOBILIZER

WITHOUT OEM HOOD STATUS ONLY

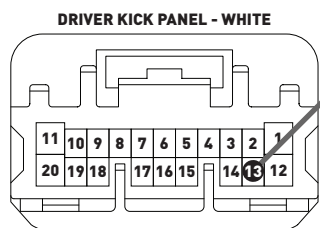
TYPE 19 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Tundra STD key (H)	18-19	CanH	~	White	30 pin	14	Blue	(DATA)	Body ECU next to dash fuse box	~
			CanL	~	White	30 pin	13	White	(DATA)	Body ECU next to dash fuse box	~
			SIL	~	White	16 pin	07	LtBlue	(DATA)	OBDII	~
			RDA	~	White	30 pin	04	Tan	(DATA)	Body ECU next to dash fuse box	~
			TPMS ignition*	PJ2	White	20 pin	13	Pink	(+)	Driver kick panel	~
			Autolights	~	White	30 pin	08	Purple	(-)	Body ECU next to dash fuse box	~
			12V	~	White	08 pin	04	White	(+)	Ignition switch	~
			12V 2	~	White	08 pin	05	Blue	(+)	Ignition switch	~
			Ignition	~	White	08 pin	01	LtGreen	(+)	Ignition switch	~
			Ignition 2	~	White	08 pin	06	Black	(+)	Ignition switch	~
			Starter	~	White	08 pin	07	Green	(+)	Ignition switch	~

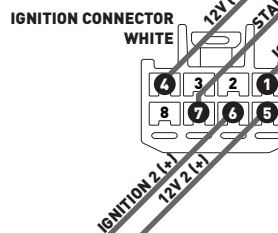
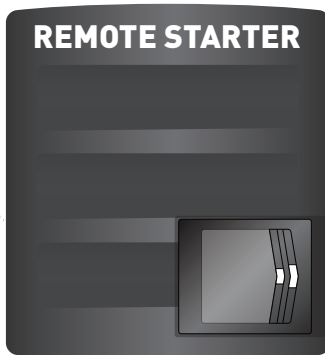
* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).

TYPE 19 - WIRING DIAGRAM - 1 OF 1

CONNECTION IS ONLY REQUIRED IF REMOTE START CONTROL FROM OEM REMOTES IS DESIRED AND VEHICLE IS EQUIPPED WITH TIRE PRESSURE MONITORING SYSTEM (TPMS).



THE SECURITY AND TPMS LIGHT WILL FLASH DURING THE REMOTE START SEQUENCE AND WILL TURN OFF UPON VEHICLE TAKEOVER.



12V 2 (+) INPUT
12V (+) INPUT
STARTER (+) OUTPUT
IGNITION 2 (+) OUTPUT
IGNITION (+) OUTPUT

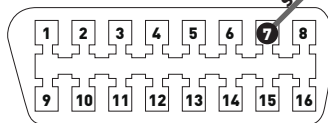
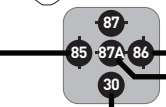
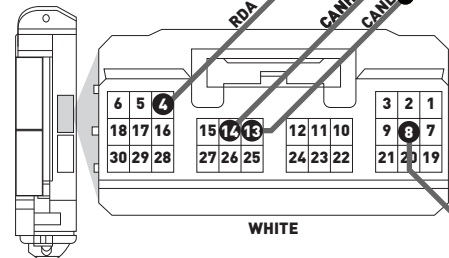
GROUND WHEN RUNNING (-) OUTPUT

*BLADE CONNECTOR EXACT PIN-OUT

WHITE/RED	10	20	WHITE/BLACK
WHITE	09	19	NO WIRE
PINK/BLACK	08	18	PINK
NO WIRE	07	17	BLACK
BROWN/RED	06	16	BROWN/YELLOW
ORANGE/BLACK	05	15	ORANGE/WHITE
ORANGE	04	14	NO WIRE
BLUE/RED	03	13	BLUE/YELLOW
GREEN/RED	02	12	YELLOW
GRAY/RED	01	11	GRAY/YELLOW

WHITE/BLACK - TPMS IGNITION (+) CONNECTOR
WHITE/RED - TPMS IGNITION (+) VEHICLE
WHITE (NC)
YELLOW (NC)
BROWN/RED - CANH
BROWN/YELLOW - CANL
ORANGE/BLACK - SIL
ORANGE/WHITE (NC)
ORANGE (NC)
PINK/BLACK (NC)
PINK - IGNITION (+) INPUT
BLUE/RED (NC)
BLUE/YELLOW (NC)
GREEN/RED - RDA (DATA)
GRAY/RED - GROUND (-) INPUT
GRAY/YELLOW (NC)
BLACK (NC)

MAIN BODY ECU



NOTE 1:
CONNECT TO GROUND IF VEHICLE IS NOT EQUIPPED WITH IMMOBILIZER

WITHOUT OEM HOOD STATUS ONLY

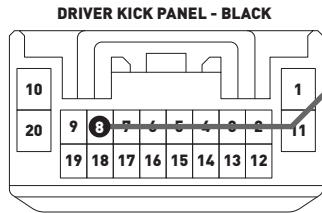
TYPE 20 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Sequoia STD key (H)	18-19	CanH	~	White	30 pin	14	Blue	(DATA)	Body ECU next to dash fuse box	~
			CanL	~	White	30 pin	13	White	(DATA)	Body ECU next to dash fuse box	~
			SIL	~	White	16 pin	07	Tan	(DATA)	OBDII	~
			RDA	~	White	30 pin	04	Purple	(DATA)	Body ECU next to dash fuse box	~
			TPMS ignition*	~	Black	20 pin	08	Blue	(+)	Driver kick panel	~
			Autolights	~	White	30 pin	08	Green	(-)	Body ECU next to dash fuse box	~
			12V	~	White	08 pin	04	White	(+)	Ignition switch	~
			12V 2	~	White	08 pin	05	Blue	(+)	Ignition switch	~
			Ignition	~	White	08 pin	01	LtGreen	(+)	Ignition switch	~
			Ignition 2	~	White	08 pin	06	Black	(+)	Ignition switch	~
Starter	~	White	08 pin	07	Green	(+)	Ignition switch	~			

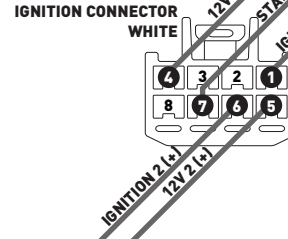
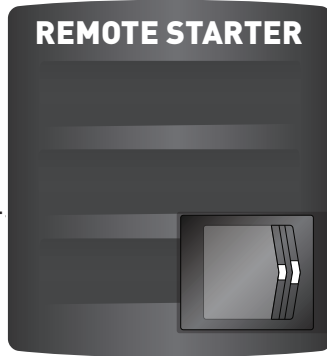
* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).

TYPE 20 - WIRING DIAGRAM - 1 OF 1

CONNECTION IS ONLY REQUIRED IF REMOTE START CONTROL FROM OEM REMOTES IS DESIRED AND VEHICLE IS EQUIPPED WITH TIRE PRESSURE MONITORING SYSTEM (TPMS).



THE SECURITY AND TPMS LIGHT WILL FLASH DURING THE REMOTE START SEQUENCE AND WILL TURN OFF UPON VEHICLE TAKEOVER.



12V 2 (+) INPUT
12V (+) INPUT
STARTER (+) OUTPUT
IGNITION 2 (+) OUTPUT
IGNITION (+) OUTPUT

GROUND WHEN RUNNING (-) OUTPUT

*BLADE CONNECTOR EXACT PIN-OUT

WHITE/RED	10	20	WHITE/BLACK
WHITE	09	19	NO WIRE
PINK/BLACK	08	18	PINK
NO WIRE	07	17	BLACK
BROWN/RED	06	16	BROWN/YELLOW
ORANGE/BLACK	05	15	ORANGE/WHITE
ORANGE	04	14	NO WIRE
BLUE/RED	03	13	BLUE/YELLOW
GREEN/RED	02	12	YELLOW
GRAY/RED	01	11	GRAY/YELLOW

WHITE/BLACK - TPMS IGNITION (+) CONNECTOR

WHITE/RED - TPMS IGNITION (+) VEHICLE

WHITE (NC)

YELLOW (NC)

BROWN/RED - CANH

BROWN/YELLOW - CANL

ORANGE/BLACK - SIL

ORANGE/WHITE (NC)

ORANGE (NC)

PINK/BLACK (NC)

PINK - IGNITION (+) INPUT

BLUE/RED (NC)

BLUE/YELLOW (NC)

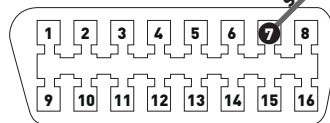
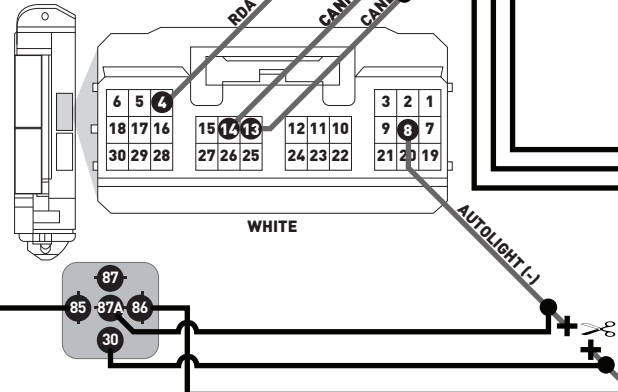
GREEN/RED - RDA (DATA)

GRAY/RED - GROUND (-) INPUT

GRAY/YELLOW (NC)

BLACK (NC)

MAIN BODY ECU



NOTE 1:
CONNECT TO GROUND IF VEHICLE IS NOT EQUIPPED WITH IMMOBILIZER

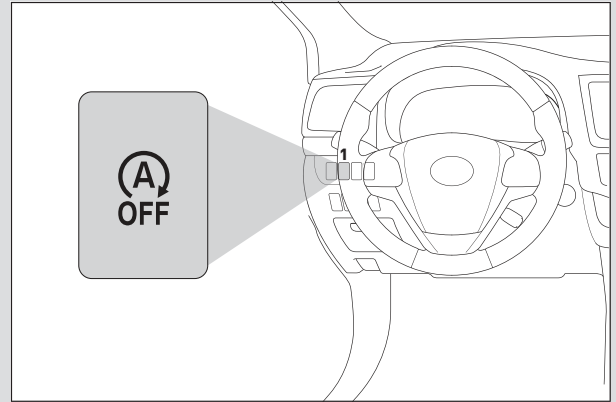
WITHOUT OEM HOOD STATUS ONLY

TYPE 21 - TECHNICAL NOTES - 1 OF 1

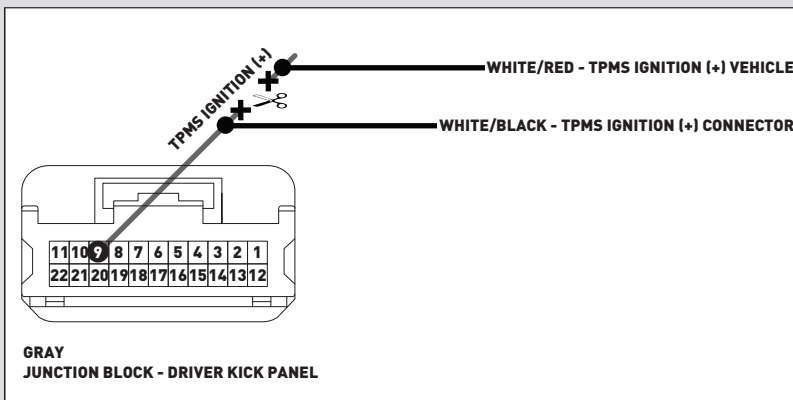
IMPORTANT

- Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (tpms).

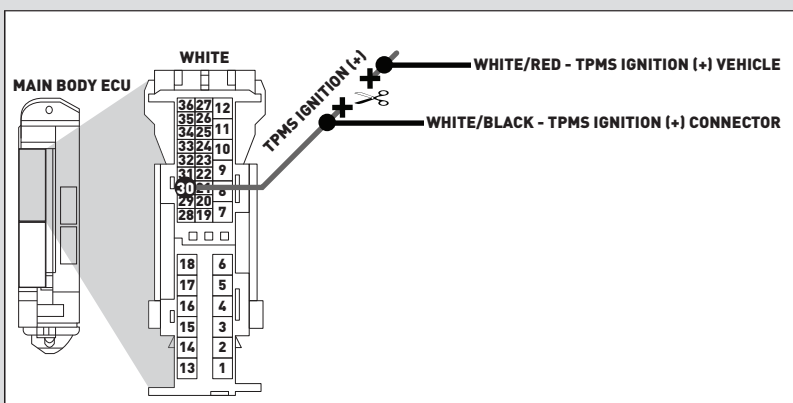
Look for this switch to determine if the vehicle is equipped with the stop & start system:



WITH STOP & START SYSTEM:



WITHOUT STOP & START SYSTEM:



TYPE 21 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Highlander STD key (H)	19	CanH	F19	White	30 pin	14	Red	(DATA)	Body ECU next to dash fuse box	~
			CanL	F19	White	30 pin	13	White	(DATA)	Body ECU next to dash fuse box	~
			SIL	E13	White	16 pin	07	LtBlue	(DATA)	OBDS	~
			RDA	F19	White	30 pin	04	LtGreen	(DATA)	Body ECU next to dash fuse box	~
			TPMS ignition* w/o Stop & Start	4H	White	36 pin	30	Yellow	(+)	Dash fuse box	~
			TPMS ignition* w/ Stop & Start	~	Gray	22 pin	09	Red	(+)	Junction block, driver kick panel	~
			Autolights	F19	White	30 pin	08	Black	(-)	Body ECU next to dash fuse box	~
			12V	F50	White	08 pin	04	Black or Tan	(+)	Ignition switch	~
			Ignition 1	F50	White	08 pin	03	Black	(+)	Ignition switch	~
			Ignition 2	F50	White	08 pin	08	Green	(+)	Ignition switch	~
			Starter 2**	F50	White	08 pin	02	Blue	(+)	Ignition switch	~
			Starter 1	F50	White	08 pin	06	Gray	(+)	Ignition switch	~

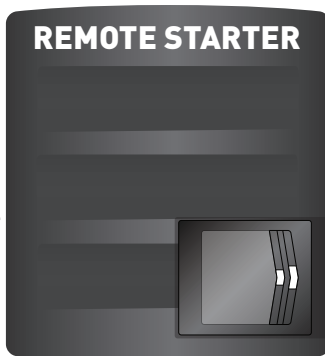
* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).
See technical note for Stop & Start System identification.

** Wire may not be present.

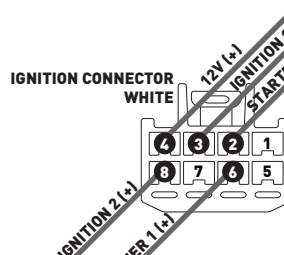
TYPE 21 - WIRING DIAGRAM - 1 OF 1

REFER TO
TECHNICAL NOTE

THE SECURITY AND TPMS LIGHT WILL FLASH
DURING THE REMOTE START SEQUENCE
AND WILL TURN OFF UPON VEHICLE TAKEOVER.



IGNITION CONNECTOR
WHITE



STARTER 1 (+) OUTPUT
12V (+) INPUT
STARTER 2 (+) OUTPUT
IGNITION 2 (+) OUTPUT
IGNITION 1 (+) OUTPUT

GROUND WHEN RUNNING (-) OUTPUT

*BLADE CONNECTOR
EXACT PIN-OUT

WHITE/RED	10	20	WHITE/BLACK
WHITE	09	19	NO WIRE
PINK/BLACK	08	18	PINK
NO WIRE	07	17	BLACK
BROWN/RED	06	16	BROWN/YELLOW
ORANGE/BLACK	05	15	ORANGE/WHITE
ORANGE	04	14	NO WIRE
BLUE/RED	03	13	BLUE/YELLOW
GREEN/RED	02	12	YELLOW
GRAY/RED	01	11	GRAY/YELLOW

WHITE/BLACK - TPMS IGNITION (+) CONNECTOR

WHITE/RED - TPMS IGNITION (+) VEHICLE

WHITE (NC)

YELLOW (NC)

BROWN/RED - CANH

BROWN/YELLOW - CANL

ORANGE/BLACK - SIL

ORANGE/WHITE (NC)

ORANGE (NC)

PINK/BLACK (NC)

PINK - IGNITION (+) INPUT

BLUE/RED (NC)

BLUE/YELLOW (NC)

GREEN/RED - RDA (DATA)

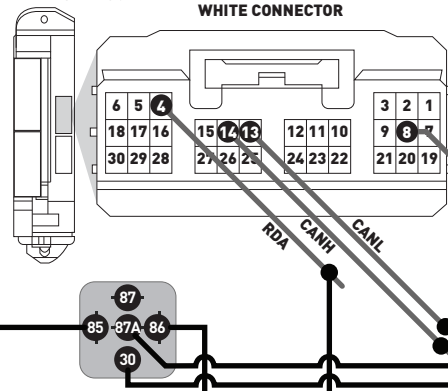
GRAY/RED - GROUND (-) INPUT

GRAY/YELLOW (NC)

BLACK (NC)

MAIN BODY ECU

WHITE CONNECTOR



SEE NOTE 1

NOTE 1:
CONNECT TO GROUND
IF VEHICLE IS NOT EQUIPPED
WITH IMMOBILIZER

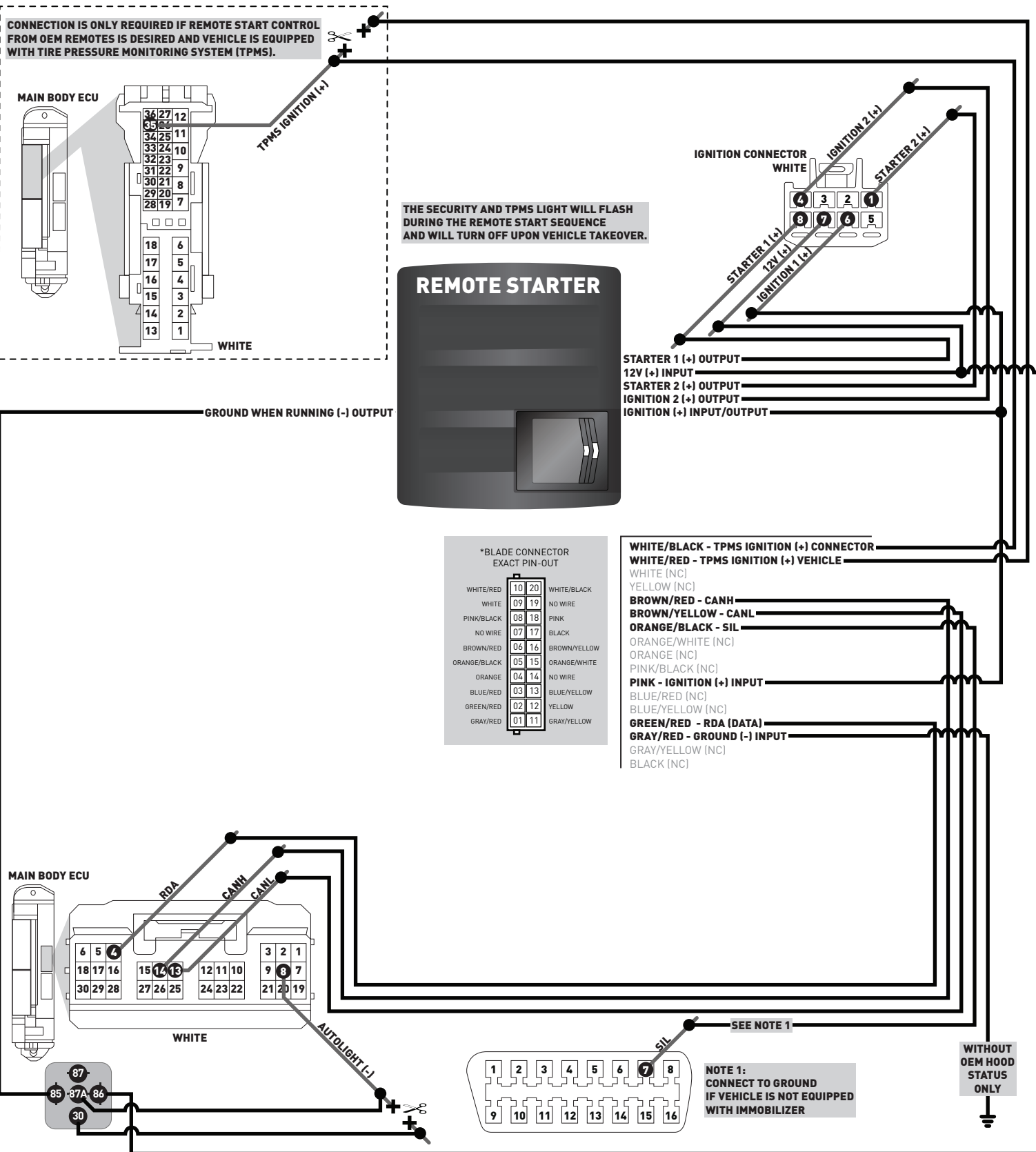
WITHOUT
OEM HOOD
STATUS ONLY

TYPE 22 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	4Runner STD key (H)	20	CanH	~	White	30 pin	14	Blue	(DATA)	Body ECU next to dash fuse box	~
			CanL	~	White	30 pin	13	White	(DATA)	Body ECU next to dash fuse box	~
			SIL	~	White	16 pin	07	LtBlue	(DATA)	OBDII	~
			RDA	~	White	30 pin	04	Pink	(DATA)	Body ECU next to dash fuse box	~
			TPMS ignition*	~	White	36 pin	35	Gray	(+)	Body ECU next to dash fuse box	~
			Autolights	~	White	30 pin	08	White	(-)	Body ECU next to dash fuse box	~
			12V	~	White	08 pin	07	Blue	(+)	Ignition switch	~
			Starter 2	~	White	08 pin	01	LtBlue	(+)	Ignition switch	~
			Ignition 1	~	White	08 pin	06	LtGreen	(+)	Ignition switch	~
			Ignition 2	~	White	08 pin	04	Yellow	(+)	Ignition switch	~
			Starter 1	~	White	08 pin	08	Red	(+)	Ignition switch	~

* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).

TYPE 22 - WIRING DIAGRAM - 1 OF 1

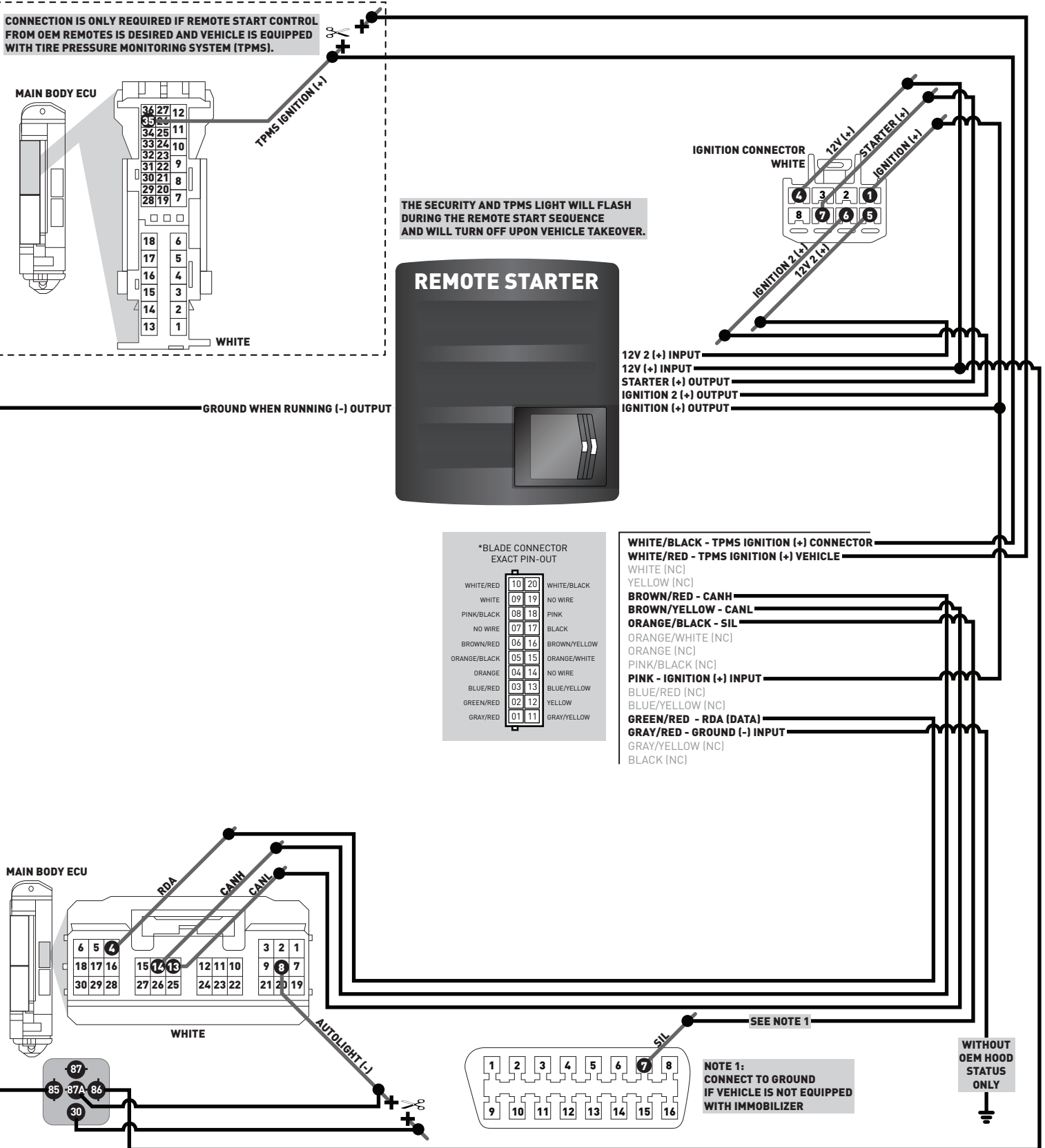


TYPE 23 - WIRE CROSS REFERENCE CHART

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
TOYOTA	Tundra STD key (H)	20	CanH	~	White	30 pin	14	Blue	(DATA)	Body ECU next to dash fuse box	~
			CanL	~	White	30 pin	13	White	(DATA)	Body ECU next to dash fuse box	~
			SIL	~	White	16 pin	07	LtBlue	(DATA)	OBDII	~
			RDA	~	White	30 pin	04	Tan	(DATA)	Body ECU next to dash fuse box	~
			TPMS ignition*	~	White	36 pin	35	Red	(+)	Body ECU next to dash fuse box	~
			Autolights	~	White	30 pin	08	Yellow	(-)	Body ECU next to dash fuse box	~
			12V	~	White	08 pin	04	White	(+)	Ignition switch	~
			12V 2	~	White	08 pin	05	Blue	(+)	Ignition switch	~
			Ignition	~	White	08 pin	01	LtGreen	(+)	Ignition switch	~
			Ignition 2	~	White	08 pin	06	Black	(+)	Ignition switch	~
			Starter	~	White	08 pin	07	Green	(+)	Ignition switch	~

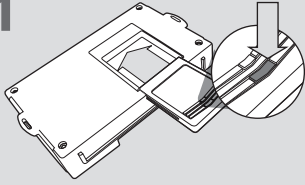
* Connection is only required if remote start control from oem remotes is desired and vehicle is equipped with tire pressure monitoring system (TPMS).

TYPE 23 - WIRING DIAGRAM - 1 OF 1



CARTRIDGE INSTALLATION

1



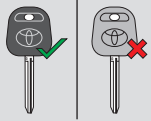
Slide cartridge into unit. Notice button under LED.

2

Ready for Module Programming Procedure.

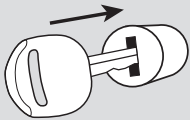
MODULE PROGRAMMING PROCEDURE

1



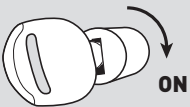
Use the BLACK key only.
DO NOT use the GRAY valet key.

2



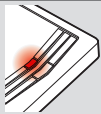
Insert key into ignition.

3



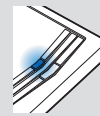
Turn key to ON position.

4



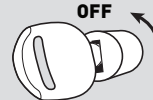
LED will turn solid RED.

5



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

6



Turn key to OFF position.

7

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 BLUE	Additional steps required to complete programming	Correctly programmed and operational	False ground when running status from remote starter
Solid BLUE 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** cartridge from remote starter.
- PRESS AND HOLD** programming button while re-connecting cartridge to remote starter.

- LED will flash red. Immediately **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.