

FTI-TLP2: Vehicle Coverage and Preparation Notes

MAKE	MODEL	YEAR	INSTALL	PTS	LIGHTS	STARTER	DCM	I/O CHANGES
DL-TL7 Toyota	RAV4 Hybrid PTS AT	2019-21	Type 2	Optional	Park / Auto Type 1	Hybrid 3	No	Green White/Blue n/a

This installation requires **BLADE-AL(DL)-TL7** firmware, flash module and update controller before beginning the installation.

Install Type 2: Main Body ECU (driver side kick panel), steering lock connector, starter connection required.

Page 2: Connect **yellow** starter wire to the lt.blue starter wire at the hybrid ECU (pin #9, 35-pin connector).

Page 3: Insert the provided **green/white** wire into the CN1, position #6, connect to **lt.blue** starter wire located at the vehicle hybrid ECU (pin #9, 35-pin connector).

Lights: Parking light and auto-light control are handled using the pre-terminated **green/white** wire bundled with the BLADE connector. Remove the (-) pk light wire from the controller's gray I/O connector and replace with the one specified, for status and diagnostic reporting. Connect to the headlight switch connector [B] as illustrated.

Locks: This installation type requires additional connections to the vehicle door locks to ensure proper synchronization with the OEM remotes. **The 6-pin lock connector is required for correct operation.** Connect to the control module lock output port.

Blue/Yellow (PTS): The PTS wire (blue/yellow) is optional. If Idle Mode is not desired, trim as necessary, then insulate and secure.

Idle Mode is not a supported feature of the FTI-TLP2 Harness: The Idle Mode feature which allows the user to exit a running has been excluded from the FTI-TLP2 harness wiring. If this feature is desired, please refer to the full BLADE installation diagram for the applicable wiring and make the required connection to the vehicle PTS button.

TAKEOVER NOT SUPPORTED: THE VEHICLE WILL SHUT DOWN UPON OPENING DRIVER'S DOOR

FTI-TLP2: Installation and Configuration Notes

- A CONNECTIONS REQUIRED
- B CONNECTIONS REQUIRED
- C OPTIONAL CONNECTION
- D CONNECTION REQUIRED
- E CONNECTION NOT REQUIRED



FEATURE COVERAGE	
IMMOBILIZER DATA	○
3X LOCK REM START	○
PTS CONTROL	○
ARM OEM ALARM	○
DISARM OEM ALARM	○
A/M ALARM CTRL FROM OEM REMOTE	○
A/M RS CONTROL FROM OEM REMOTE	○
PRIORITY UNLOCK	○
DOOR LOCK	○
DOOR UNLOCK	○
TRUNK/HATCH RELEASE	○
DOOR STATUS OUT	○
TRUNK STATUS OUT	○
TACHOMETER OUT	○
BRAKE STATUS OUT	○
E-BRAKE STATUS	○
PARKING LIGHTS	○
AUTOLIGHT CONTROL	○
	○
	○
	○

•FT-DAS Required for manual transmission.
•BOTH Red & Red/White MUST be connected with high current application.

Jumper Setting

Parking Light	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(+)-Door Trigger In
Accessory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(-)-Door Trigger In (Default)
Ignition (Default)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Trunk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Starter
Starter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ignition
Parking Light (Default)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Accessory (Default)

CM7000/7200

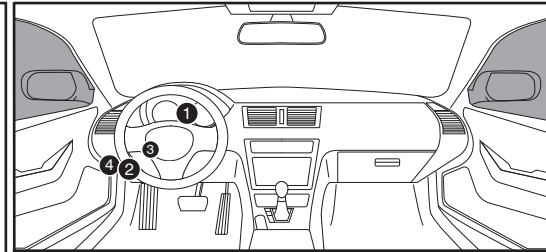
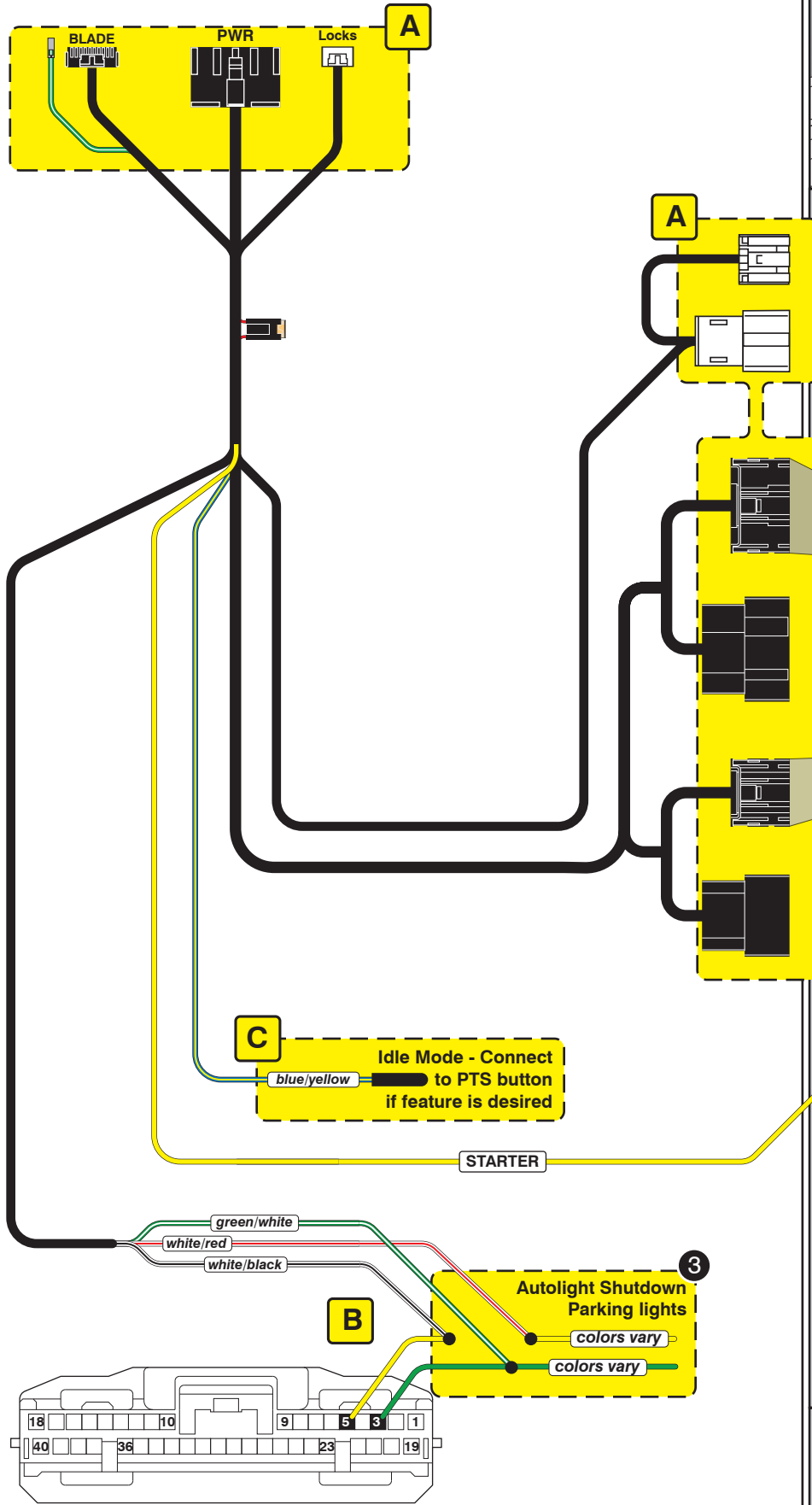
CM-900S/900AS

CM900AS/900S Jumper

START

ACC

IGN1



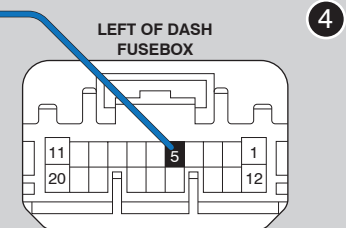
Steering Lock Connector



Main Body ECU



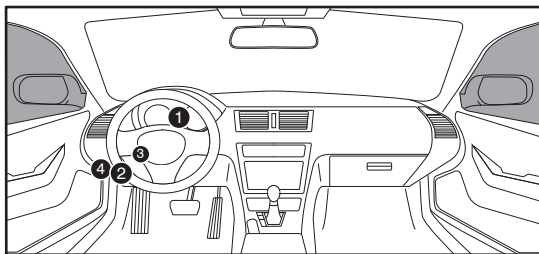
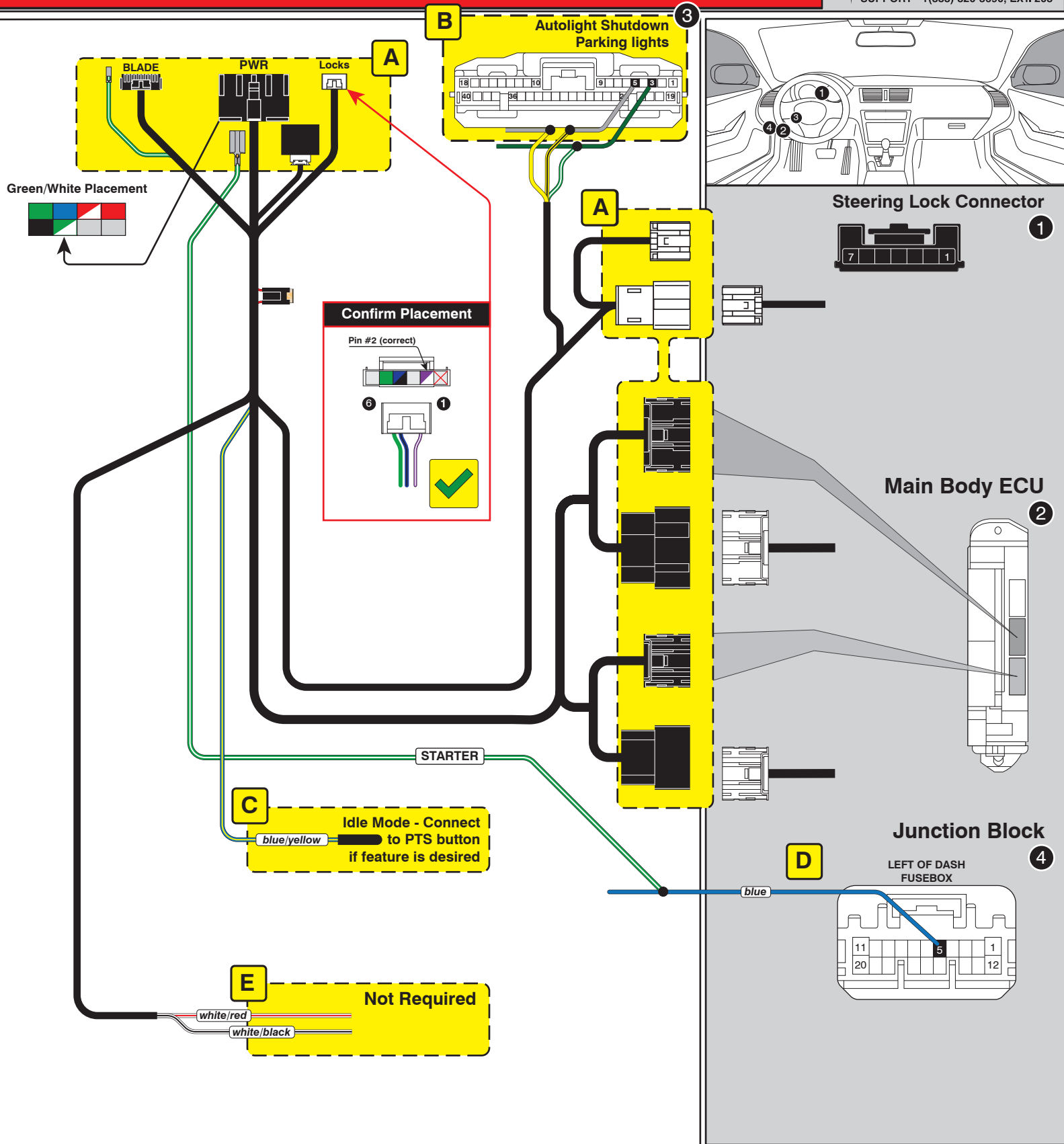
Junction Block



LED Programming Error Codes

Module LED flashing RED during programming

- 1x - CAN error, confirm harness configuration
- 2x - No IGN, confirm IGN power and harness configuration
- 3x - IMMO/CAN error, confirm harness configuration
- 4x - No VIN, module may default to base platform #2
- 5x - Unknown VIN, module may default to base platform #2
- 6x - OEM starter detected, cycle IGN, if issue persists, remove and reprogram



Steering Lock Connector

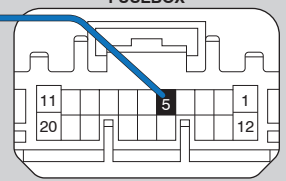


Main Body ECU



Junction Block

LEFT OF DASH FUSEBOX

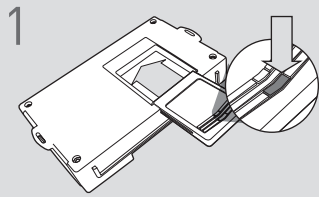


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CARTRIDGE INSTALLATION



1 Slide cartridge into unit. Notice button under LED.

2

Ready for Module Programming Procedure.

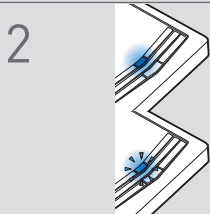
MODULE PROGRAMMING PROCEDURE

NOTE

I IMPORTANT: The hood must be closed.



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

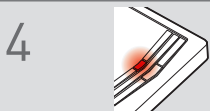


2 Wait, if LED turns solid BLUE for 2 seconds, proceed to step 7.

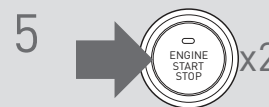
If LED flashes BLUE rapidly, proceed to step 3.



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



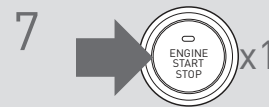
4 Wait, LED will turn solid RED. (This may take up to 5 minutes.)



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



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



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

8

Module Programming Procedure completed.