FTI-TLP2: Vehicle Coverage and Preparation Notes

FIRSTECH, LLC.
SUPPORT - 1(888) 820-3690, EXT. 203

MAKE	MODEL	YEAR	INSTALL	PTS	LIGHTS	STARTER	DCM	I/O CHANGES
DL-TL7 Toyota	Corolla Hybrid PTS AT	2021-22	Type 4	Optional	**Park / Auto** Type 2	Hybrid 4	Yes	**Green White/Blue** n/a

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

Install Type 4: Main Body ECU (driver side kick panel), steering lock connector, starter connection and DCM cut are required.

> **Page 2:** The starter wire (**yellow**) connects to the purple starter wire (pin #4, black 54-pin connector) at the hybrid ECU, located behind the glove box, harness **white**/**red** & **white**/**black** are used to interrupt the DCM power at pin #5 of the gray 53-pin junction block, located in the driver's kick panel.
>
> **Page 3:** Insert the provided **green**/**white** wire into the CN1, position #6, connect to the purple starter wire (pin #4, black 54-pin connector) at the hybrid ECU, located behind the glove box, harness **white**/**red** and **white**/**black** are used to interrupt the DCM power at pin #5 of the gray 53-pin junction block, located in the driver's kick panel.

Lights: Parking lights are handled using the pre-terminated **green**/**white** wire bundled with the BLADE connector, Autolight control requires an additional relay and wiring. 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 relay and wiring 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**

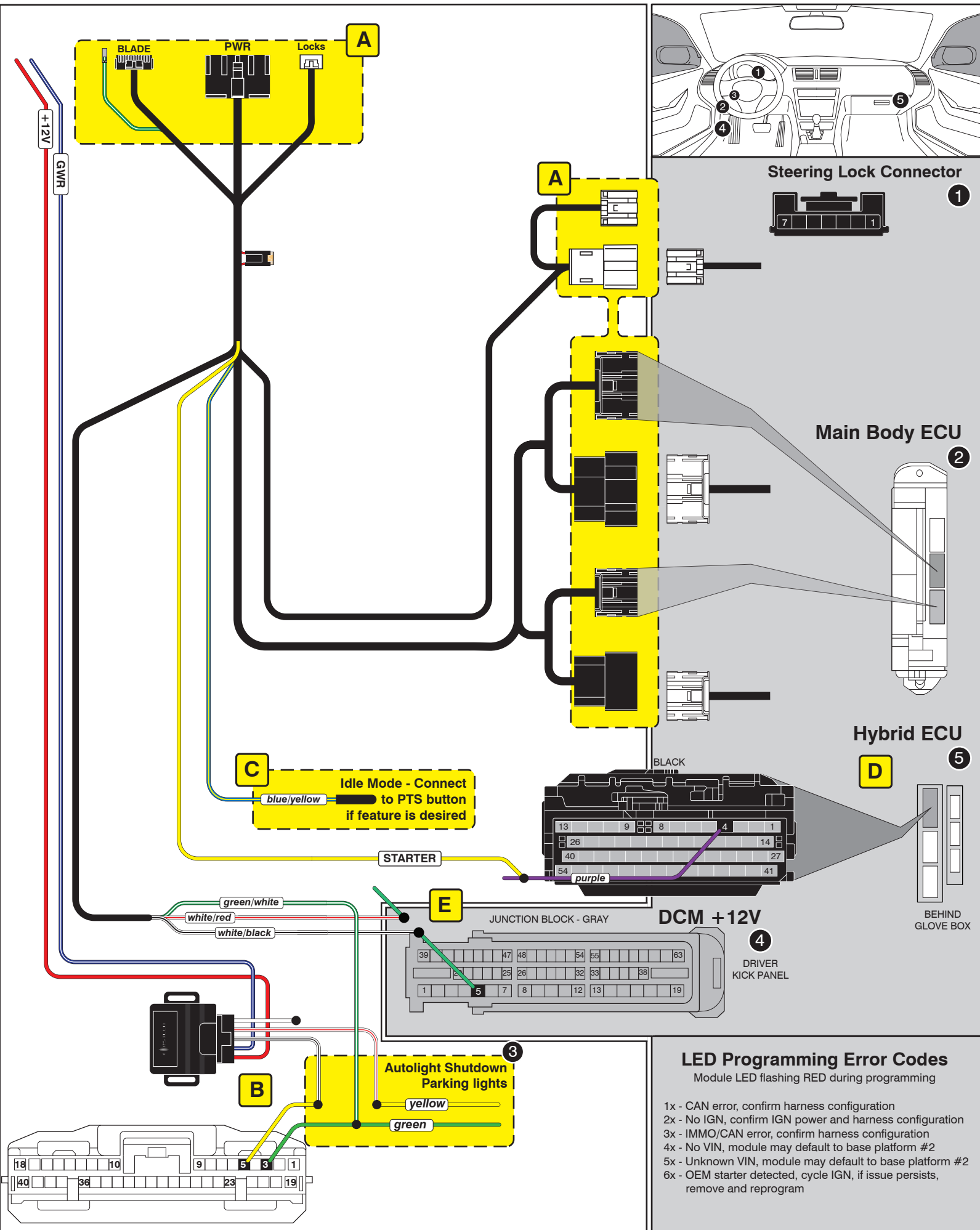**[C]** **CONNECTION OPTIONAL**

[D] **CONNECTION REQUIRED**

[E] **CONNECTION REQUIRED**

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

Jumper Setting

Parking Light				(+)Door Trigger In
Accessory				(-)Door Trigger In (Default)
Ignition (Default)				
Trunk				Starter
Starter				Ignition
Parking Light (Default)				Accessory (Default)

CM7000/7200   **Cut loop for A/T**

CM-900S/900AS

CM900AS/900S Jumper

START / ACC / IGN1

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

A

BLADE   PWR   Locks

+12V
GWR

A

Steering Lock Connector ❶

7   1

Main Body ECU ❷

C

Idle Mode - Connect
blue/yellow **to PTS button if feature is desired**

Hybrid ECU ❺

BLACK

13		9		8		4		1
26								14
40								27
54	*purple*							41

D

BEHIND
GLOVE BOX

STARTER

E   *purple*

green/white
white/red
white/black

JUNCTION BLOCK - GRAY   **DCM +12V** ❹
DRIVER
KICK PANEL

39			47	48		54	55			63
		25	26		32	33		38	
1		5	7	8		12	13		19

B

Autolight Shutdown Parking lights ❸

yellow
green

| 18 | | 10 | | 9 | | 5 | 3 | | 1 |
| 40 | | 36 | | | 23 | | | 19 |

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

B — Autolight Shutdown Parking lights ③

| 18 | | | 10 | | | 9 | | 6 | 3 | 1 |
| 40 | | 36 | | | | | | | | 19 |

Green/White Placement

BLADE   PWR   Locks   **A**

A

Confirm Placement

Pin #2 (correct)

6 ──── 1

✅

Steering Lock Connector ❶

7 ──── 1

Main Body ECU ❷

STARTER

C
Idle Mode - Connect to PTS button if feature is desired
blue/yellow

Hybrid ECU ❺

D

BLACK

13		9		8			4		1
26								14	
40								27	
54								41	

purple

BEHIND GLOVE BOX

E

JUNCTION BLOCK - GRAY

DCM +12V ❹

DRIVER KICK PANEL

white/red
white/black

39			47	48		54	55			63
		25	26		32	33		38		
1		5	7	8		12	13		19

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CARTRIDGE INSTALLATION
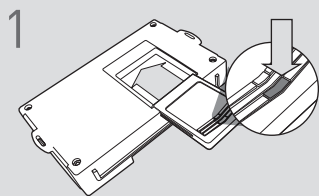
1 Slide cartridge into unit. Notice button under LED.

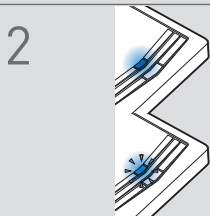

2 Ready for Module Programming Procedure.

MODULE PROGRAMMING PROCEDURE

NOTE

I   IMPORTANT: The hood must be closed.

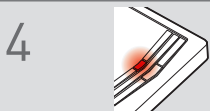**1** Push start button twice [2x] to ON position.

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.