FTI-TLK80: Vehicle Coverage and Preparation Notes

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

Make	Model	Year	Install/ Adapter	CAN	Lights	SIL	Locks	I/O Changes
DL-TL5					**Park / Auto**			**Green White/Blue**
Toyota	Highlander Hybrid 80 bit STD Key AT	2012-13	Type 2 Type B	OBD-II	3 / No	N/A	N/A	START 2

Type 2 installation requires **BLADE-AL(DL)-TL5**, flash module and update controller firmware before beginning the installation.

Ignition Adapter: This installation requires using the **Type B** ignition adapter, using any other adapter will result in malfunction and possible vehicle damage.

CAN: Vehicle CAN data is gathered from the OBD-II connector, proper configuration of the harness CAN selection jumpers is also required. Configure as illustrated, using the **white** 2-pin connector.

Parking Lights: Park 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 it with the one specified, for status and diagnostic reporting.

Door Locks: Connections vary by vehicle equipment and trim level, refer to wiring diagram for specific connections. Make no alternate connections, and secure all unused wires for safety.

I/O Changes: If indicated above, change the controller output from **Parking Light** to **START**:
- CM7 controllers - move jumper 3 to STARTER position
- CMX controllers - change HCP #1 to 2ND START (setting 2)
- CM900 controllers - set feature option 1-6 to 2.

If issues arise disarming the OEM alarm during remote start, set option 1-01 to 2.

Vehicles not equipped with Immobilizer: Connect black jumper to the white 2-pin connector marked **NO IMMO** before programming the module to the vehicle.

FTI-TLK80: Installation and Configuration Notes

A **REQUIRED CONNECTOR - ADAPTER B**

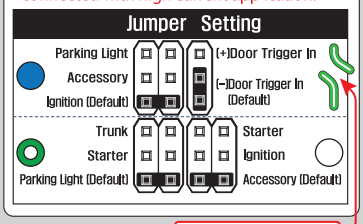
B **REQUIRED CONFIGURATION - OBD-II**

C **REQUIRED CONFIGURATION**

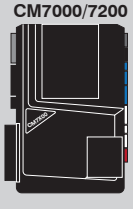
D **REQUIRED CONFIGURATION**

E **NO CONNECTION**

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

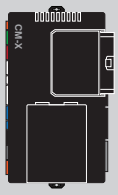


CM7000/7200



Cut loop for A/T

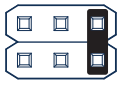
CMX



FEATURE COVERAGE

IMMOBILIZER DATA	A/M RS CONTROL FROM OEM REMOTE	A/M ALARM CTRL FROM OEM REMOTE	ARM OEM ALARM	DOOR LOCK	DOOR UNLOCK	PWR SLIDING DOOR (LEFT)	PWR SLIDING DOOR (RIGHT)	TRUNK/HATCH RELEASE	TACH OUTPUT	BRAKE STATUS	E-BRAKE STATUS	DOOR STATUS	TRUNK STATUS	HOOD STATUS	PARKING LIGHTS	AUTOLIGHT CONTROL	SIL/TPMS CIRCUIT INTERRUPT				
○	○	○	○	○	○				○	○	○	○	○	○	○	○	○				

CM900AS/900S Jumper



CM-900S/900AS

CMX High Current Programmable (+) Output Channels

HCP #1 - Parking Light (Default)
HCP #2 - Accessory (Default)
HCP #3 - Ignition (Default)

[2] 2ND START
[3] 2ND IGNITION
[4] 2ND ACCESSORY

FTI-TLK80 - DL-TL5 - Type 2 2012-13 Toyota Highlander Hybrid 80 bit STD Key AT

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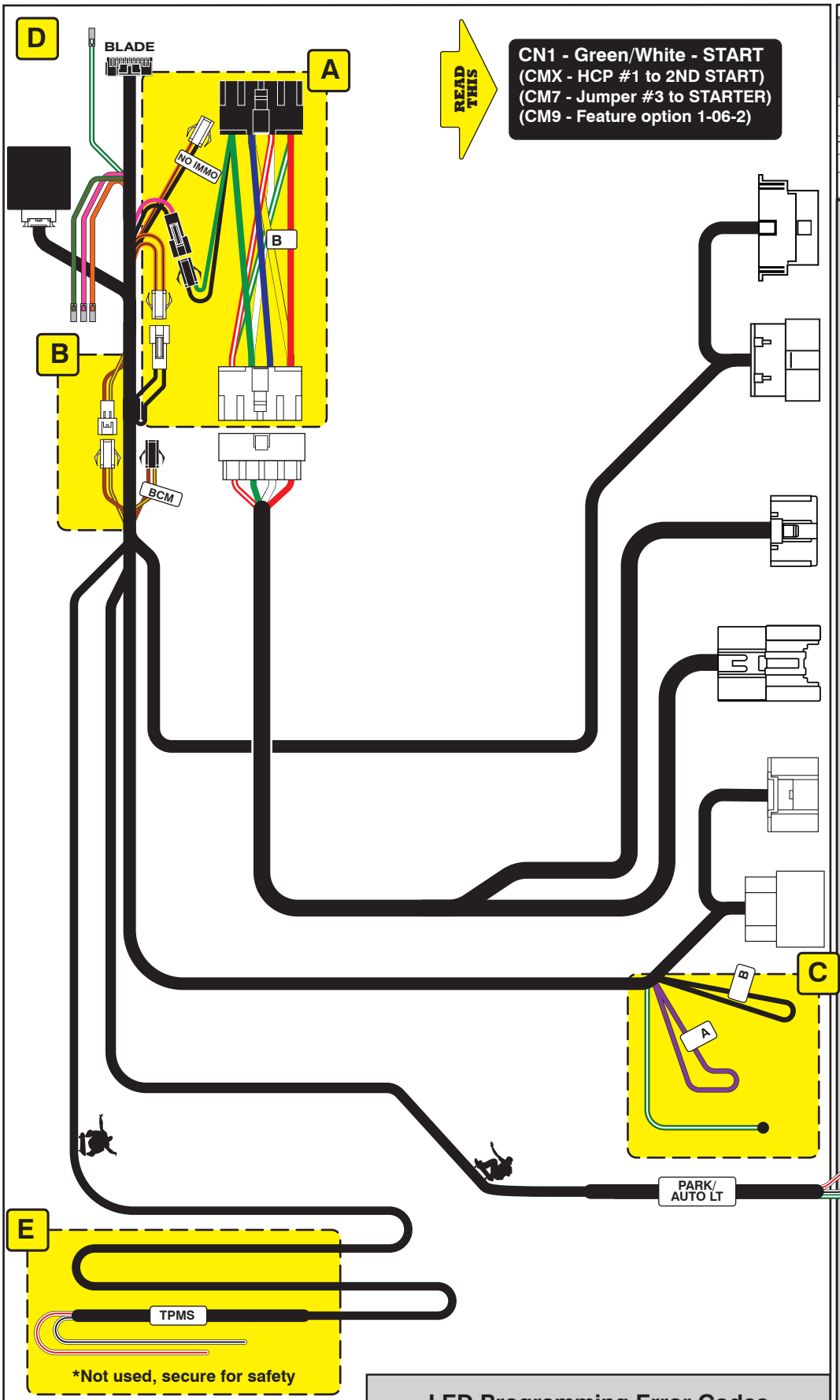
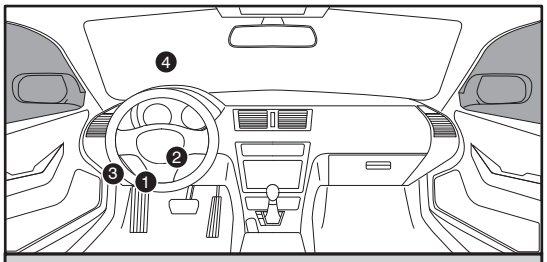
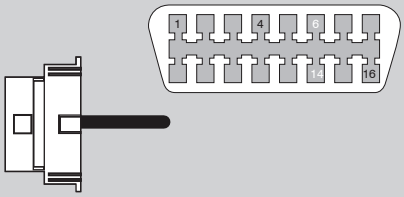
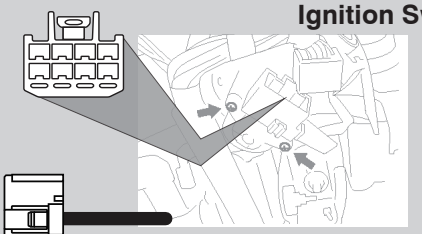




OBD-II Connector 1



Ignition Switch 2

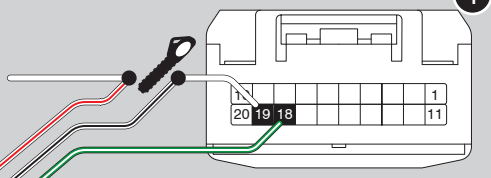


Main Body ECU 3

READ THIS

30-PIN CONNECTOR NOT USED IN THIS INSTALL

Parking Light Switch 4

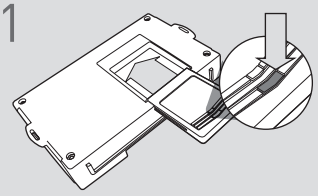


LED Programming Error Codes

Module LED flashing RED during programming

1x - CAN error, confirm harness configuration
2x - No IGN, confirm connections
3x - No IMMO, confirm equipment and connections
4x - Unknown VIN, manually assign
5x - No IGN on CAN, confirm connections

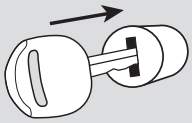
CARTRIDGE INSTALLATION

1 

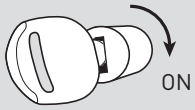
Slide cartridge into unit. Notice button under LED.

2 Ready for Module Programming Procedure.

MODULE PROGRAMMING PROCEDURE

1 

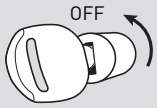
Insert key into ignition.

2 

Turn key to ON position.

3

Wait, LED will turn solid BLUE for 2 seconds.

4 

Turn key to OFF position.

5 Module Programming Procedure completed.

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