

FTI-TLK80: Vehicle Coverage and Preparation Notes

Make	Model	Year	Install/Adapter	CAN	Lights	SIL	Locks	I/O Changes
DL-TL5 Toyota	Highlander 80 bit STD Key AT	2011-13	Type 2 Type B	OBD-II	Park / Auto 3 / No	N/A	N/A	Green White/Blue 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.

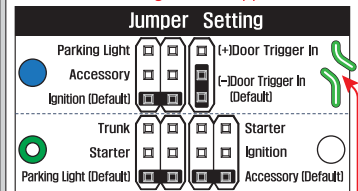


Vehicles not equipped with Immobilizer: Connect black jumper to the white 2-pin connector marked **NO IMMO** before programming the module to the vehicle.

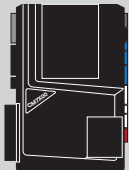
FTI-TLK80: Installation and Configuration Notes

- A** REQUIRED CONNECTOR - ADAPTER B
- B** REQUIRED CONFIGURATION - OBD-II
- C** NOT REQUIRED
- D** REQUIRED CONFIGURATION
- E** NO CONNECTION

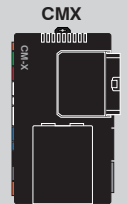
- FT-DAS Required for manual transmission.
- BOTH Red & Red/White MUST be connected with high current application.



CM7000/7200



Cut loop for A/T



CMX High Current Programmable (+) Output Channels
 HCP #1 - Parking Light (Default)
 HCP #2 - Accessory (Default)
 HCP #3 - Ignition (Default)

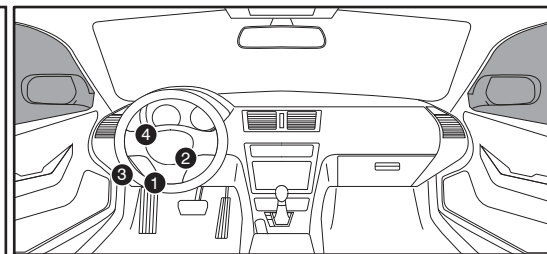
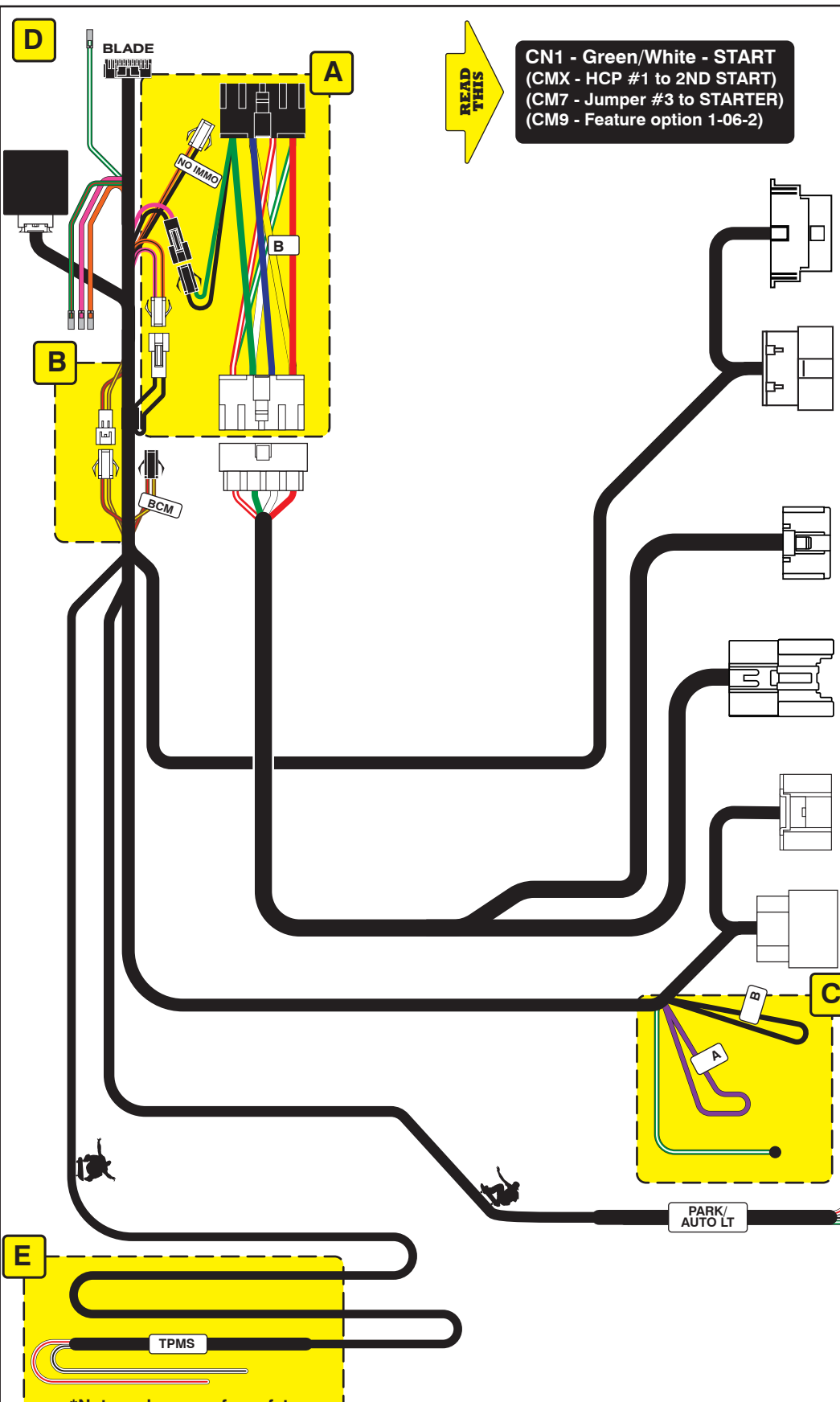
- [2] 2ND START
- [3] 2ND IGNITION
- [4] 2ND ACCESSORY

FEATURE COVERAGE

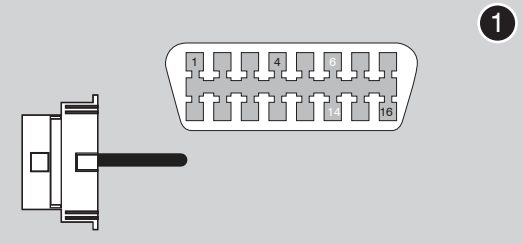
IMMOBILIZER DATA	A/M RS CONTROL FROM OEM REMOTE	A/M ALARM CTRL FROM OEM REMOTE	ARM OEM ALARM	DOOR LOCK	DOOR UNLOCK	PWR SLIDING DOOR (LEFT)	PWR SLIDING DOOR (RIGHT)	TRUNK/HATCH RELEASE	TACH OUTPUT	BRAKE STATUS	E-BRAKE STATUS	DOOR STATUS	TRUNK STATUS	HOOD STATUS	PARKING LIGHTS	AUTOLIGHT CONTROL	SIL/TPMS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

CM900AS/900S Jumper





OBD-II Connector



Ignition Switch

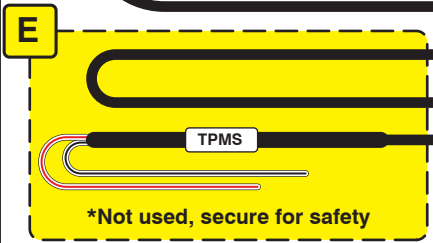
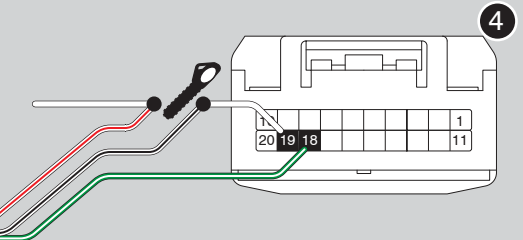


Main Body ECU



30-PIN CONNECTOR NOT USED IN THIS INSTALL

Parking Light Switch

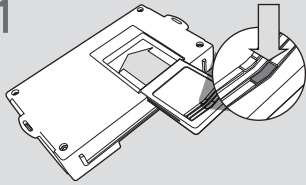


LED Programming Error Codes
Module LED flashing RED during programming

- 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



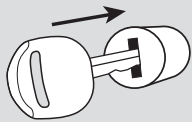
Slide cartridge into unit. Notice button under LED.

2

Ready for Module Programming Procedure.

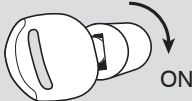
MODULE PROGRAMMING PROCEDURE

1



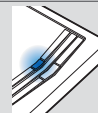
Insert key into ignition.

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.

