

# FTI-TLK2: Vehicle Coverage and Preparation Notes

| Make                     | Model                   | Year    | Install | CAN | Lights              | IMI/IMO              | TPMS    | I/O Changes             |
|--------------------------|-------------------------|---------|---------|-----|---------------------|----------------------|---------|-------------------------|
| <b>DL-TL10</b><br>Toyota | RAV4 Hybrid STD Key (H) | 2019-22 | Type 2  | ECU | Park / Auto<br>DATA | ECU/JB<br>20-Pin (B) | PKP (1) | Green White/Blue<br>N/A |

This install requires **BLADE-AL(DL)-TL10** firmware, flash module and update the controller before beginning the installation.

**CAN:** CAN data connections are handled through connections at the ECU, no other connections are required.

**IMI/IMO (immobilizer):** Immobilizer is gathered using the 20-pin ECU adapter, via the **black 3-pin connector**. Cut the white loop attached to the connector, before programming the module to the vehicle. *Do not use the white 3-pin connector, or cut the attached loop, vehicle damage may result.*

**TPMS Ignition:** The TPMS ignition wire, located in the passenger kick panel, must be interrupted if the 3X Lock control is required. If the feature is not required, and aftermarket remotes are being used, no connection is necessary.

**Parking Lights:** TL10 firmware handles parking lights through data, if issues arise the +parking light (green/white) can be used.

**Keysense & RAP:** The TLK2 harness includes pre-terminated connections for Keysense and RAP circuits.

**Keysense** (brown/white) is only required in manual transmission applications, insert CM I/O connector keysense position.

**RAP (orange)** connects to the driver door circuit, insert in any POC position and configure for RAP in the feature options.

**Included ORG/BLK:** The TLK2 kit includes an additional wire intended for SIL connections in TL9 applications, it is not required for this installation.

**I/O Changes: No changes are required.**

## FTI-TLK2: Installation and Configuration Notes

- A CONNECTIONS REQUIRED**
- B CONNECTION REQUIRED - 20-PIN ADAPTER**
- C CONFIGURATION REQUIRED - BLACK 3-PIN**
- D OPTIONAL CONNECTION**
- E OPTIONAL CONNECTION**

\* available only when ignition is off  
\*\* if equipped with factory hood pin switch



| FEATURE COVERAGE |                 |               |                  |           |             |                       |                |                      |             |              |                |             |              |                |                                |                                |  |  |  |  |
|------------------|-----------------|---------------|------------------|-----------|-------------|-----------------------|----------------|----------------------|-------------|--------------|----------------|-------------|--------------|----------------|--------------------------------|--------------------------------|--|--|--|--|
| IMMOBILIZER DATA | PRIORITY UNLOCK | ARM OEM ALARM | DISARM OEM ALARM | DOOR LOCK | DOOR UNLOCK | PARKING LIGHT CONTROL | POWER LIFTGATE | TRUNK/HATCH RELEASE* | DOOR STATUS | TRUNK STATUS | HOOD STATUS ** | TACH OUTPUT | BRAKE STATUS | E-BRAKE STATUS | A/M ALARM CTRL FROM OEM REMOTE | A/M RS CONTROL FROM OEM REMOTE |  |  |  |  |

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

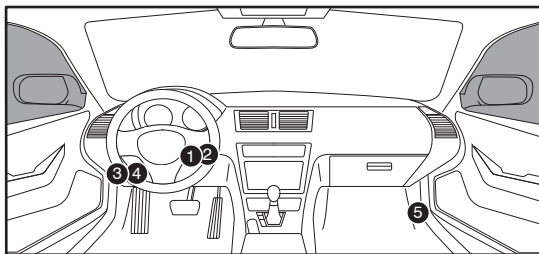
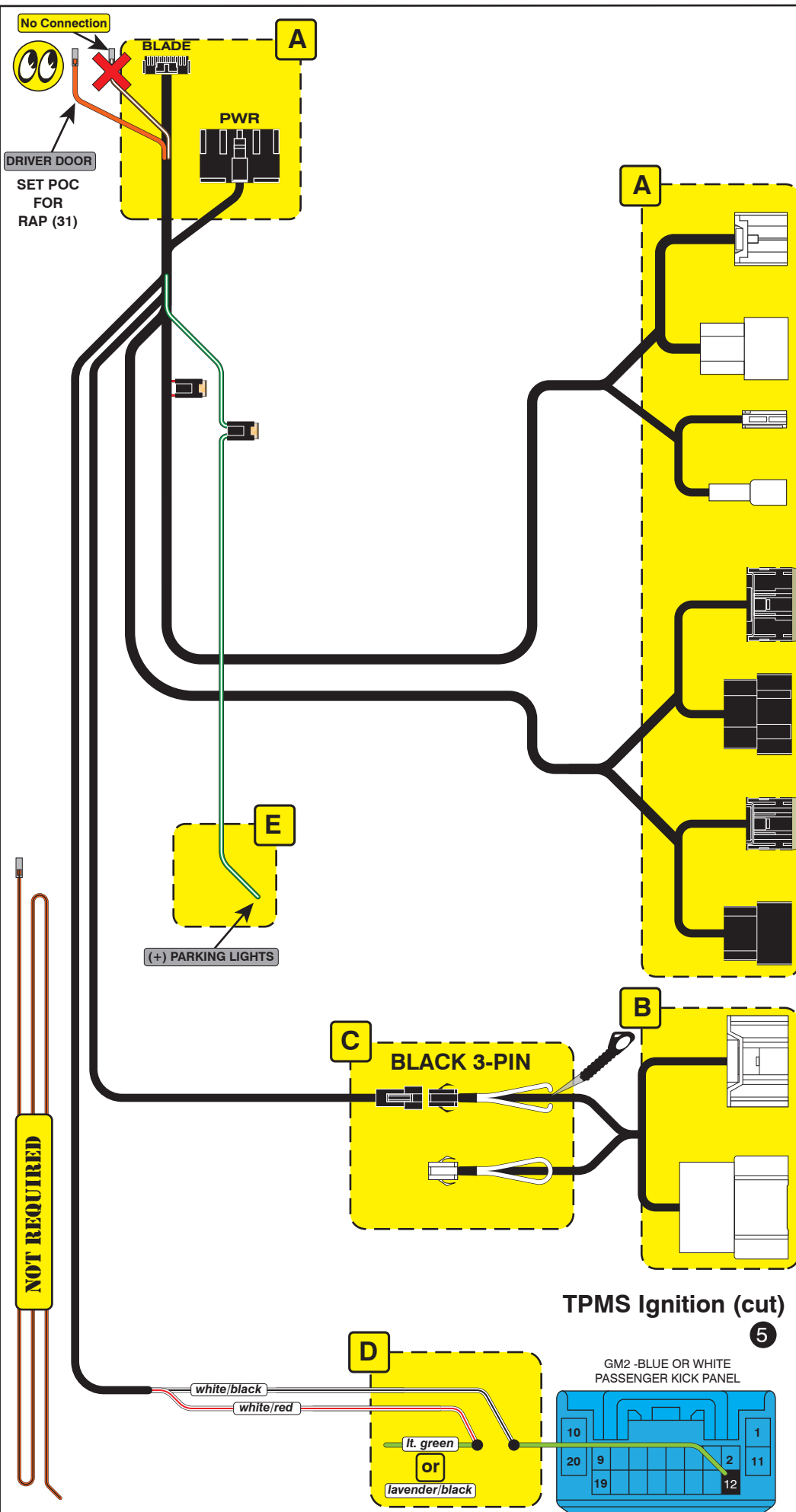
**Jumper Setting**

**CM7000/7200**

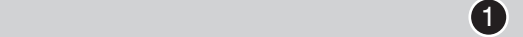
**CM900AS/900S Jumper**

**START ACC IGN1**

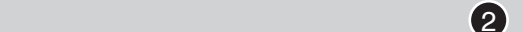
**CM-900S/900AS**



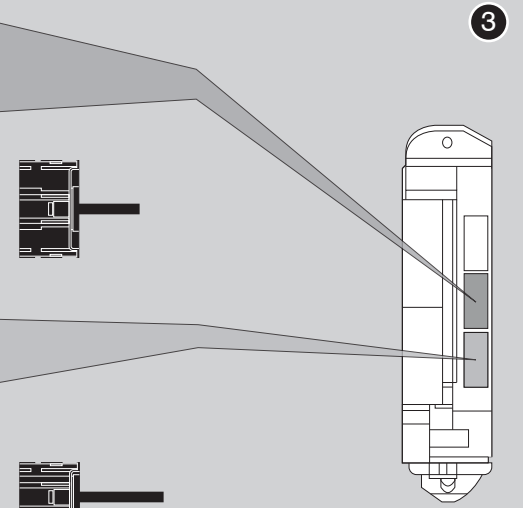
**Ignition Connector 1**



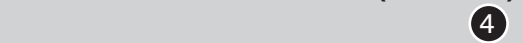
**Keysense 2**



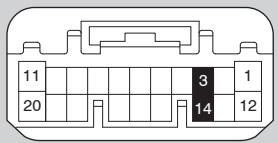
**Main Body ECU 3**



**Junction Connector (IMI/IMO) 4**



AG4 - WHITE LEFT SIDE OF BODY ECU

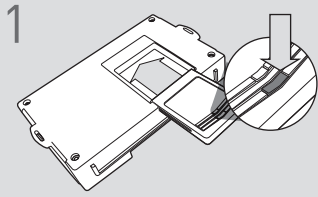


**TL10 LED Programming Error Codes**

Module LED flashing RED during programming

- 1x - No CAN activity, check harness connections.
- 2x - No analog Ignition, check harness connections.
- 3x - VIN received but not in table, contact iDataLink.
- 4x - No Immobilizer data (IMI), check adapter configuration.
- 5x - No Immobilizer data (IMO), check adapter configuration.
- 6x - Problem with Klon log, retry programming from step 1.
- 7x - CryptKey doesn't match, reflash and redo Klon.

## CARTRIDGE INSTALLATION



1 Slide cartridge into unit. Notice button under LED.

2

Ready for Module Programming Procedure.

## MODULE PROGRAMMING PROCEDURE

### NOTE

**!** IMPORTANT: The hood must be closed.

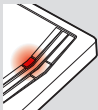
1 OFF ACC **ON** START

Set ignition to ON position.



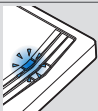
2

Wait, LED will turn solid RED to confirm that the ignition is ON.



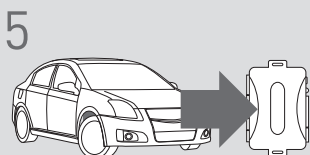
3

Wait, LED will flash BLUE rapidly.

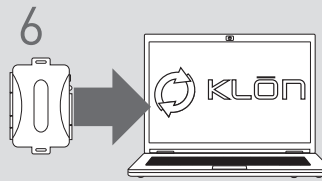


4 OFF ACC ON START

Set ignition to OFF position.



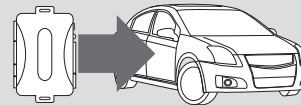
5 **WARNING:**  
Disconnect power last.  
Disconnect module from vehicle.



6 Connect module to computer and proceed with extended programming.

7

**WARNING:**  
Connect power first.  
Connect module to vehicle.



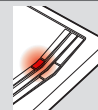
8 OFF ACC **ON** START

Set ignition to ON position.



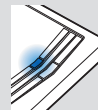
9

Wait, LED will turn solid RED to confirm that the ignition is ON.



10

Wait, LED will turn solid BLUE for 2 seconds.



11 OFF ACC ON START

Set ignition to OFF position.



12

Module Programming Procedure completed.