

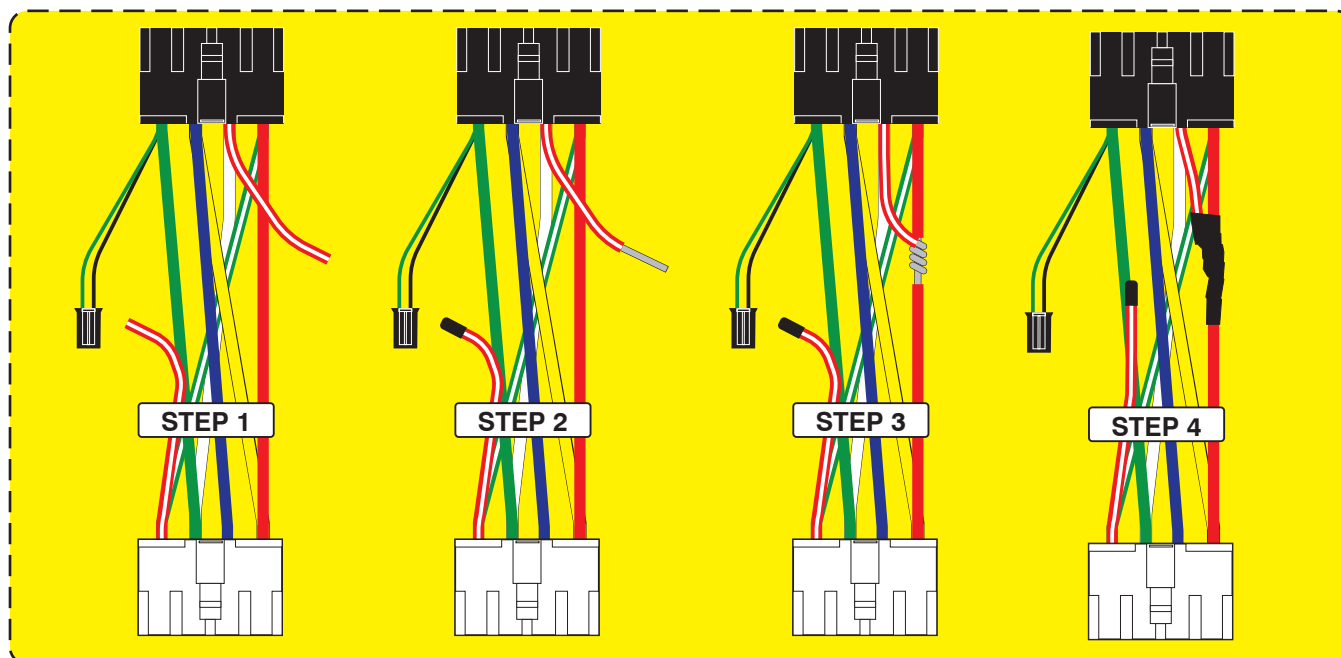
**Overview:** The initial production release of the FTI-TLK1 harness has an issue where in some vehicles the secondary power input to the CN1 connector will overload the associated vehicle circuit, causing a fuse to blow. This issue affects the initial release of harnesses and is already being addressed in production. A field correction procedure is detailed below in Figure 1.

**Issue:** The secondary power circuit can overload some vehicle ignition switch circuits, causing a blown 5A/7.5A AM1 fuse, potentially disabling the vehicle and leaving the consumer stranded. Affected adapters are illustrated below in figure 2.

**Corrective steps:**

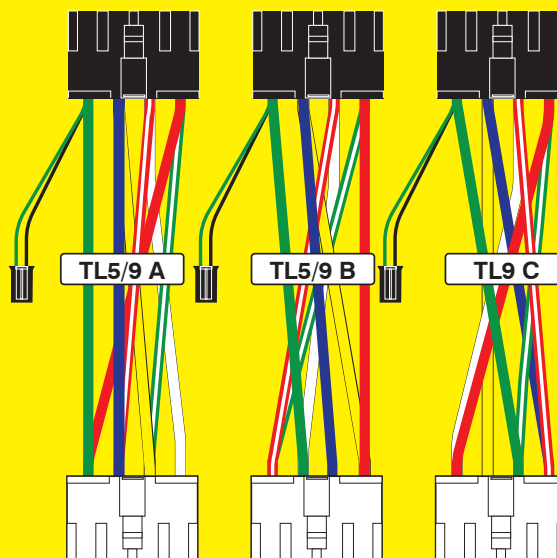
- 1.) Select the applicable CN1 adapter, isolate the RED/WHITE power wire, cut wire approximately 4" from the BLACK plug
- 2.) Insulate the wire still connected to the WHITE plug using heat shrink tubing, and strip the insulation on the other wire end
- 3.) Strip a portion of the insulation from the RED wire, attach the stripped RED/WHITE to the exposed RED wire, solder together
- 4.) Apply insulating tape to the soldered connection and secure the cut ends back to the bundle of wires created by the adapter
- 5.) Correction complete, you may safely proceed to finish your installation

**Figure 1: Step by step adapter correction**



**Figure 2: Supplied CN1 Harness Adapters**

Incorrect power provisions with the potential to overload vehicle ignition supply circuit, resulting in blown AM1 fuse.



# FTI-TLK1 Type 1B - Vehicle Coverage & Preparation Notes

**FTSTECH, L.L.C.**  
SUPPORT - 1 (888) 820-3690, EXT. 203

Make	Model	Year	Install	CAN	Lights	Adapter	Trunk	I/O Changes
<b>DL-TL1</b>					<b>Park / Auto</b>			<b>Green White/Blue</b>
Scion	xD 40 bit STD Key	2008-10	Type 1	OBD-II	SW-13	ADPT B		START 2/None
Toyota	Camry 40 bit STD Key	2007-11	Type 1	OBD-II	SW-18/19	ADPT B		START 2/None
Toyota	Highlander 40 bit STD Key	2008-10	Type 1	OBD-II	SW-18/19	ADPT B		START 2/None
Toyota	Sequoia 40 bit STD Key	2008-10	Type 1	OBD-II	SW-18/19	ADPT B		START 2/None
Toyota	Tundra 40 bit STD Key	2007-10	Type 1	OBD-II	SW-18/19	ADPT B		START 2/None
Toyota	Yaris 40 bit STD Key	2006-10	Type 1	OBD-II	SW-13	ADPT B		START 2/None

**Hey! Read this stuff before you start the installation...**

**Firmware:** Covered vehicles use **BLADE-AL(DL)-TL1**, flash module and update the controller firmware before installing.

**Install:** Covered vehicles require using the **TL 5/9 B CN1 adapter**, **using any other adapter will result in malfunction.**

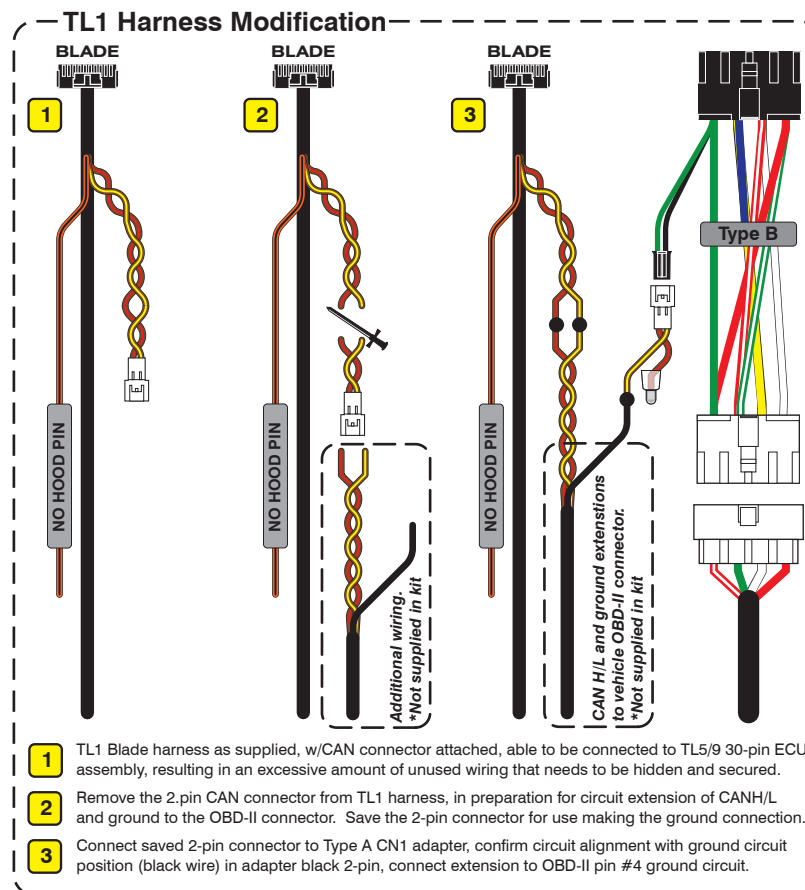
**CAN:** CAN data connections are located at the OBD-II connector, CANH (pin #6), CANL (pin #14), along with the ground connection at pin #4. **Please ensure solid wire to wire connections are used.**

**Lights:** Parking light negative is located at the parking light switch connector, pin #18 of the 20-pin connector, Scion xD & Toyota Yaris parking light is at pin #13 of the 20-pin connector. If vehicle is equipped with Auto-lights, additional wiring and a relay will be required.

**I/O Changes:** Listed vehicles require changing the controller output from **Parking Light** to **START**, CM7x00 controllers move 39jumper, 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.

**Harness Modification (Pro Tip):** Installation with the TL1 BLADE harness requires extending a ground and CAN connections to the OBD-II connector. A slight modification to the harness is detailed below, please refer to the step-by-step procedure illustrated.

**Okay, now get to work...**

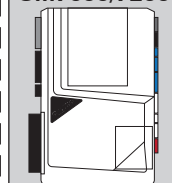


•FT-DAS Required for manual transmission.  
•BOTH Red & Red/White MUST be connected with high current application.

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

CM7000/7200

Cut loop for A/T



CM-900S/900AS

CM900AS/900S Jumper



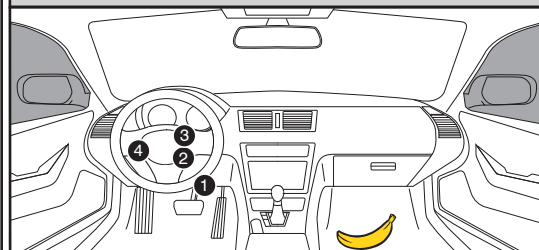
START  
ACC  
IGN1



# FTI-TLK1 Type 1B - Installation Notes & Wiring Diagram

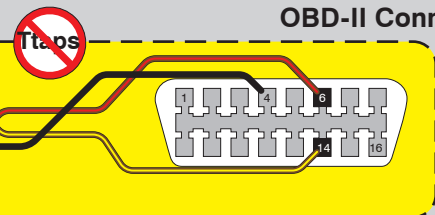
- A** TL 5/9 B CN1 adapter required for use in the vehicles listed on the coverage page, using any other adapter will result in malfunction and possible damage. Hardwired CAN & ground connections required.
- B** Ground connection required. Failure to connect will result in malfunction and failure to program, ensure a solid connection before installation, secure to prevent accidental disconnection.
- C** If the vehicle is not equipped with a factory hood pin, ground the **orange/black** wire before module programming. If hood pin existence is unknown until after programming, ground wire and reprogram.
- D** Connections to OBD-II connector, CANH, CANL, and ground are mandatory connections, please use solid wire to wire connections, do not use T-taps or Scotch Locks for making these connections.
- E** Parking light connection, additional wiring required. Vehicle negative ( - ) parking lights are available at the switch connector, pin #18 or #13 of the 20-pin connector, refer to vehicle coverage page.

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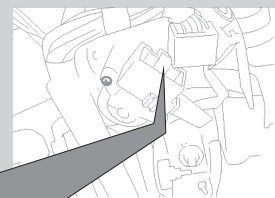
**OBD-II Connector**

**1**



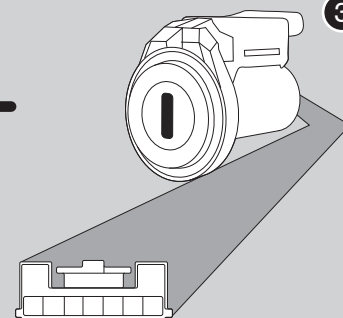
**Ignition Switch**

**2**



**Immobilizer Connector**

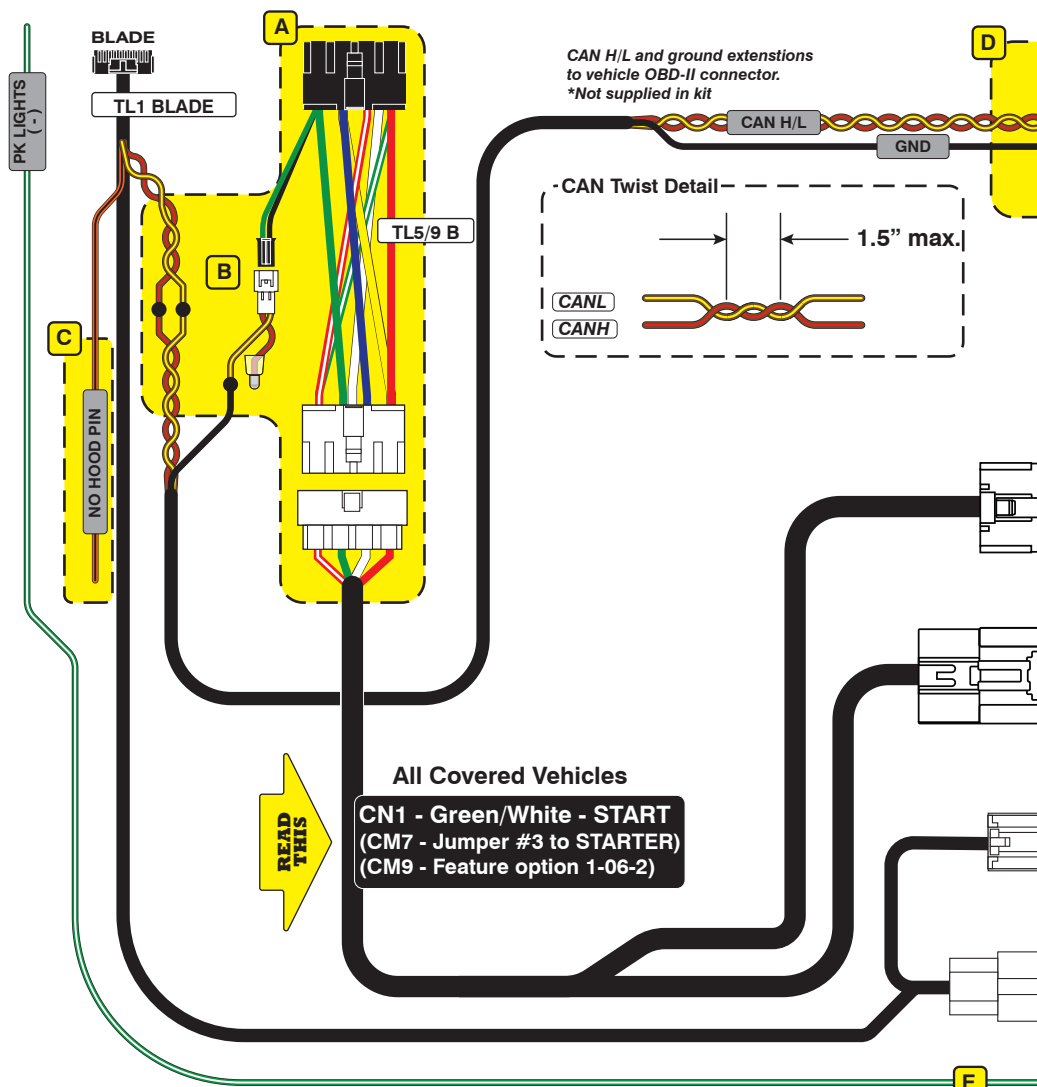
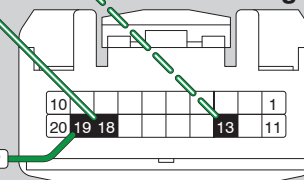
**3**



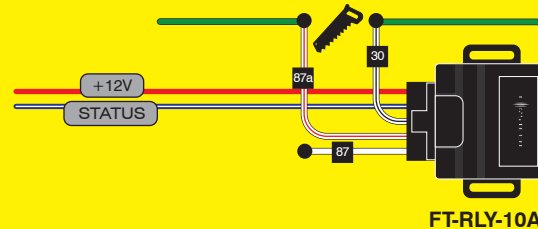
**Parking light Switch**

**4**

xD & Yaris



## Auto-Light control (if equipped)



**FT-RLY-10A**

## Module Programming Procedure

- Step 1 - Insert key, activate IGN
- Step 2 - LED will flash green, remove key
- Step 3 - Reinsert key, LED will flash blue/red
- Step 4 - Led will go solid blue, remove key
- Step 5 - Programming complete

## LED Programming Error Codes

Module LED flashing RED during programming

- 1x - CAN error, check connections
- 2x - VIN detection failure, check CAN connections
- 3x - VIN unknown
- 4x - IMMO error, check connections
- 5x - OEM remote starter detected, remove from vehicle
- Solid red LED - TXCT/CODE error, check wiring and confirm equipment level.

**FTI-TKL1 Type 1B**

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