

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

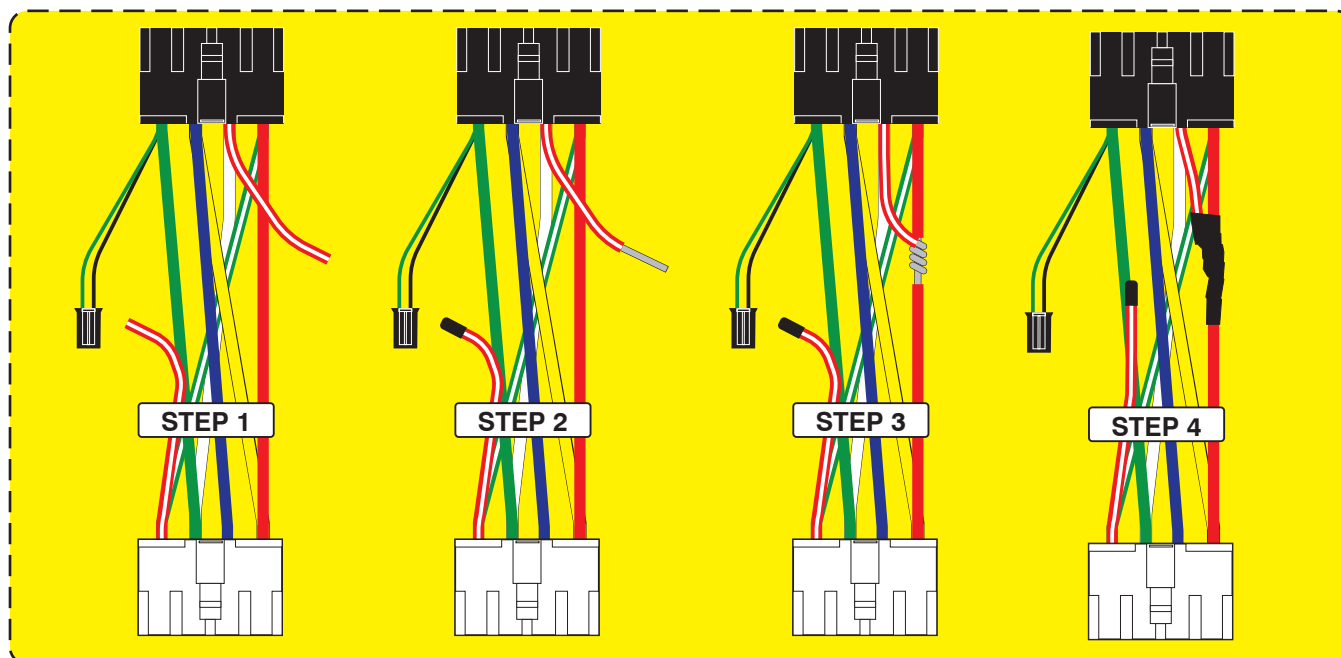
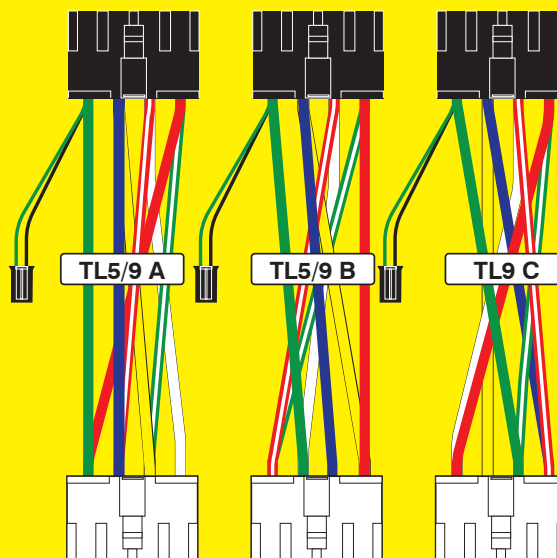


Figure 2: Supplied CN1 Harness Adapters

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



FTI-TLK1 Type 1A - Vehicle Coverage & Preparation Notes

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| Make | Model | Year | Install | CAN | Lights | Adapter | Trunk | I/O Changes |
|---------------|------------------------|---------|---------|--------|--------------------|---------|-------|-------------------------|
| DL-TL1 | | | | | Park / Auto | | | Green White/Blue |
| Pontiac | Vibe 40 bit STD Key | 2009-10 | Type 1 | OBD-II | SW-18 | ADPT A | | START 2/None |
| Scion | xB 40 bit STD Key | 2008-10 | Type 1 | OBD-II | SW-18 | ADPT A | | START 2/None |
| Toyota | Corolla 40 bit STD Key | 2009-10 | Type 1 | OBD-II | SW-18 | ADPT A | | START 2/None |
| Toyota | Matrix 40 bit STD Key | 2009-10 | Type 1 | OBD-II | SW-18 | ADPT A | | START 2/None |
| Toyota | RAV4 40 bit STD Key | 2006-10 | Type 1 | OBD-II | SW-18/19 | ADPT A | | 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 A CN1 adapter**, using any other adapter will result in malfunction.

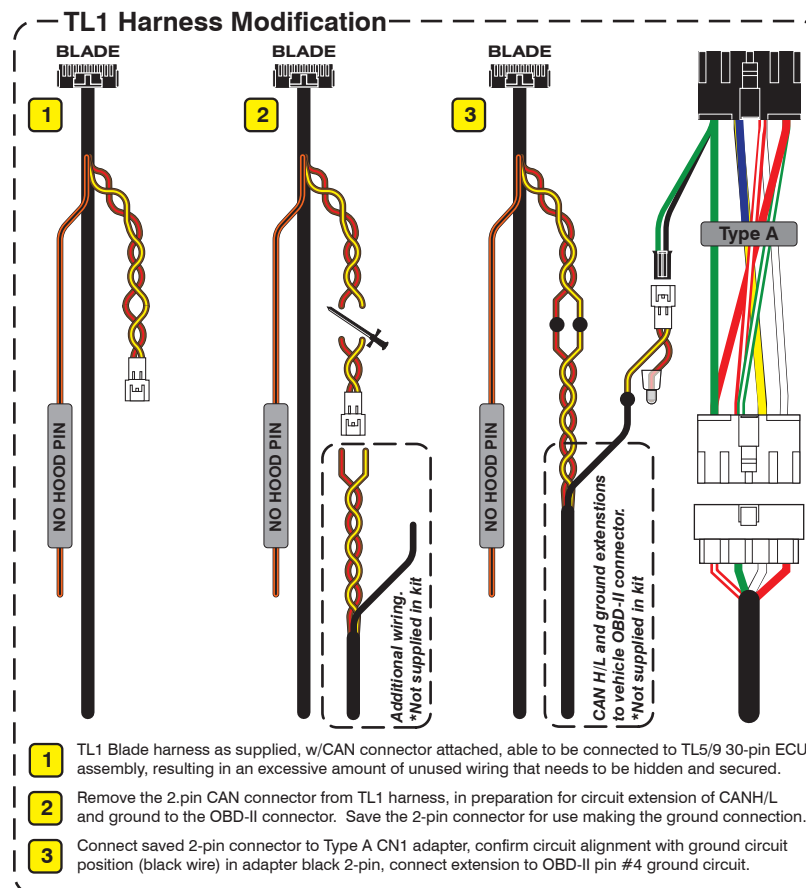
CAN: CAN data connections are located at the OBD-II connector, CANH (pin #6), CANL (pin #14), along with the ground connection at pin #4. **Please ensure solid wire to wire connections are used.**

Lights: Parking light negative is located at the parking light switch connector, pin #18 of the 20-pin connector. 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 jumper 3 to STARTER position, 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...

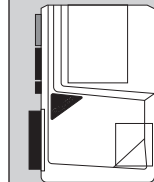


- FT-DAS Required for manual transmission.
- BOTH Red & Red/White MUST be connected with high current application.

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



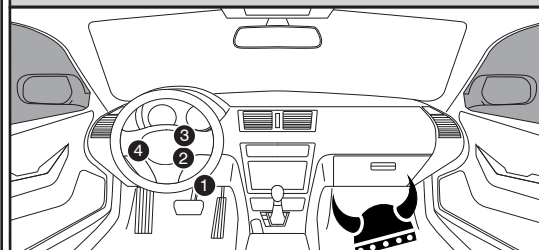
START
ACC
IGN1



FTI-TLK1 Type 1A - Installation Notes & Wiring Diagram

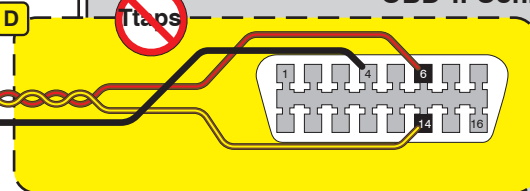
- A** TL 5/9 A power adapter required for use in the vehicles listed on the coverage page, using any other adapter will result in malfunction and possible damage. Hardwired CAN & ground connections required.
- B** Ground connection required. Failure to connect will result in malfunction and failure to 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 in the steering column, pin #18 of the 20-pin connector.

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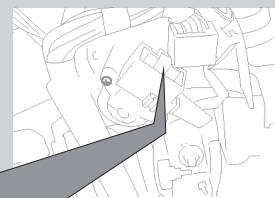
OBD-II Connector

1



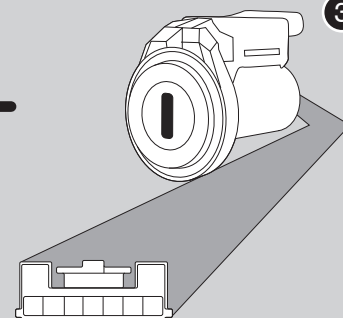
Ignition Switch

2



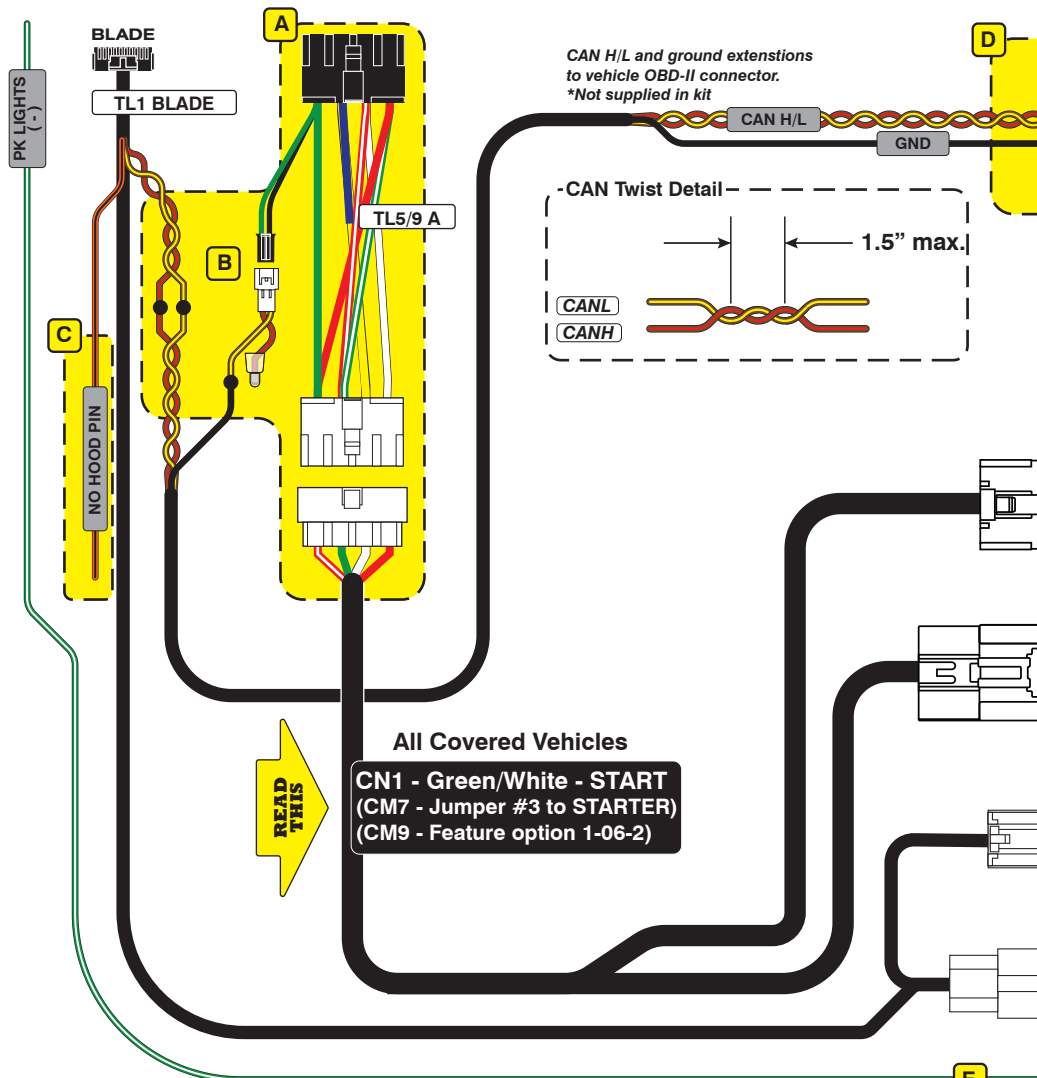
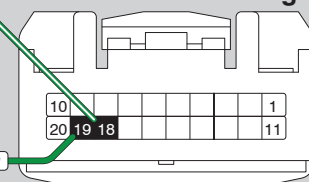
Immobilizer Connector

3



Parking light Switch

4



CAN H/L and ground extensions to vehicle OBD-II connector.
*Not supplied in kit

-CAN Twist Detail-

1.5" max.

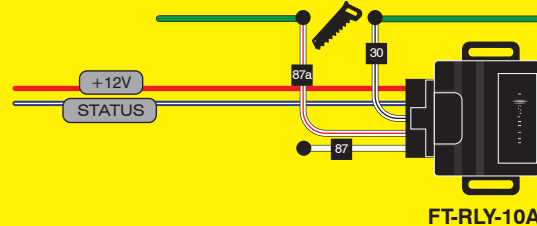
CANL
CANH

All Covered Vehicles

CN1 - Green/White - START
(CM7 - Jumper #3 to STARTER)
(CM9 - Feature option 1-06-2)



Auto-Light control (if equipped)



FT-RLY-10A

Module Programming Procedure

- Step 1 - Insert key, activate IGN
- Step 2 - LED will flash blue, remove key
- Step 3 - Reinsert key, LED will flash green/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 1A

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