

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

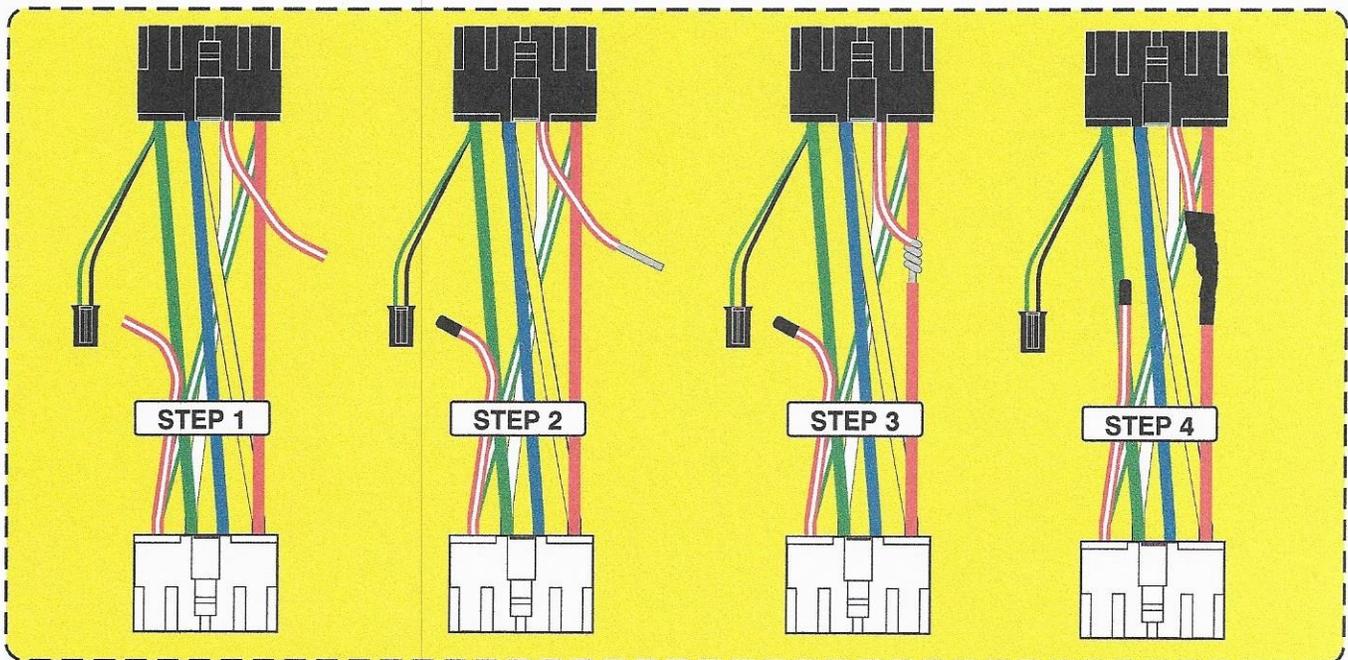
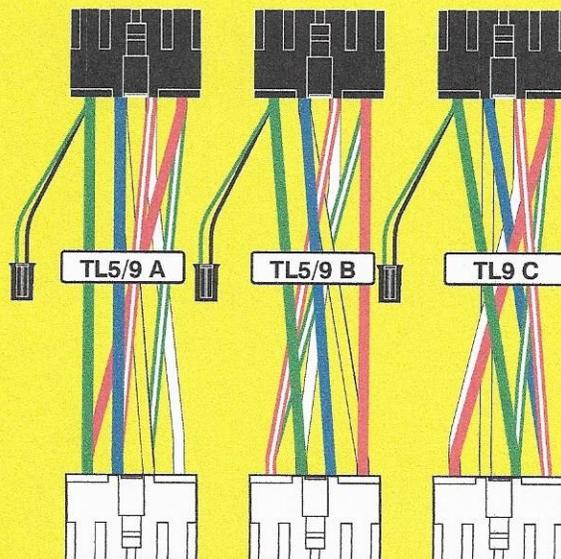


Figure 2: Supplied CN1 Harness Adapters

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



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
Scion	xB 40 bit STD Key	2008-10	Type 1	OBD-II	SW-18	ADPT A		START 2
Toyota	Corolla 40 bit STD Key	2009-10	Type 1	OBD-II	SW-18	ADPT A		START 2
Toyota	Matrix 40 bit STD Key	2009-10	Type 1	OBD-II	SW-18	ADPT A		START 2
Toyota	RAV4 40 bit STD Key	2006-10	Type 1	OBD-II	SW-18/19	ADPT A		START 2

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.

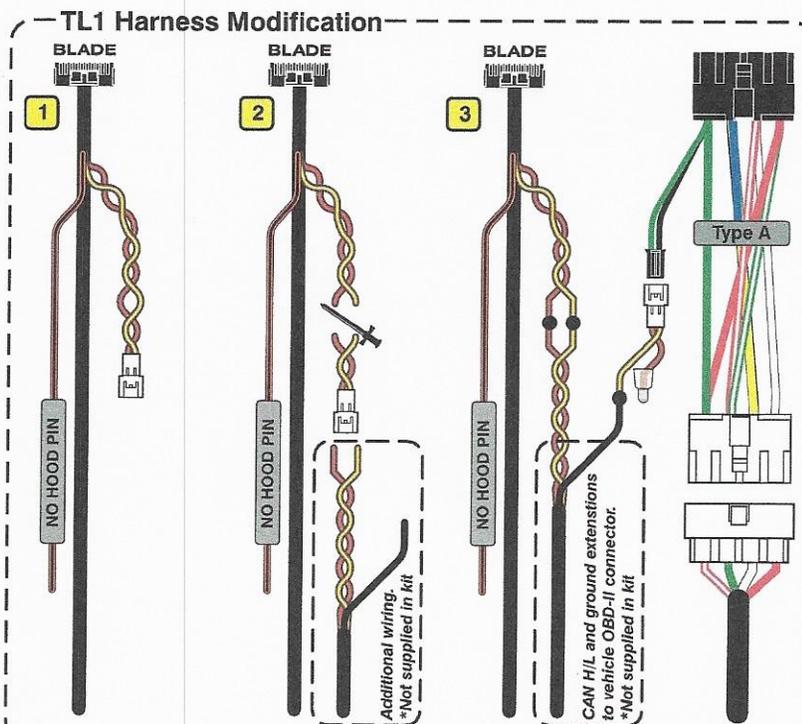
CAN: CAN data connections are located at the OBD-II connector, CANH (pin #6), CANL (pin #14), along with the ground connection at pin #4. **Please ensure solid wire to wire connections are used.**

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...



- 1 TL1 Blade harness as supplied, w/CAN connector attached, able to be connected to TL5/9 30-pin ECU assembly, resulting in an excessive amount of unused wiring that needs to be hidden and secured.
- 2 Remove the 2-pin CAN connector from TL1 harness, in preparation for circuit extension of CANH/L and ground to the OBD-II connector. Save the 2-pin connector for use making the ground connection.
- 3 Connect saved 2-pin connector to Type A CN1 adapter, confirm circuit alignment with ground circuit position (black wire) in adapter black 2-pin, connect extension to OBD-II pin #4 ground circuit.

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

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

CM7000/7200 **Cut loop for A/T**

CM-900S/900AS

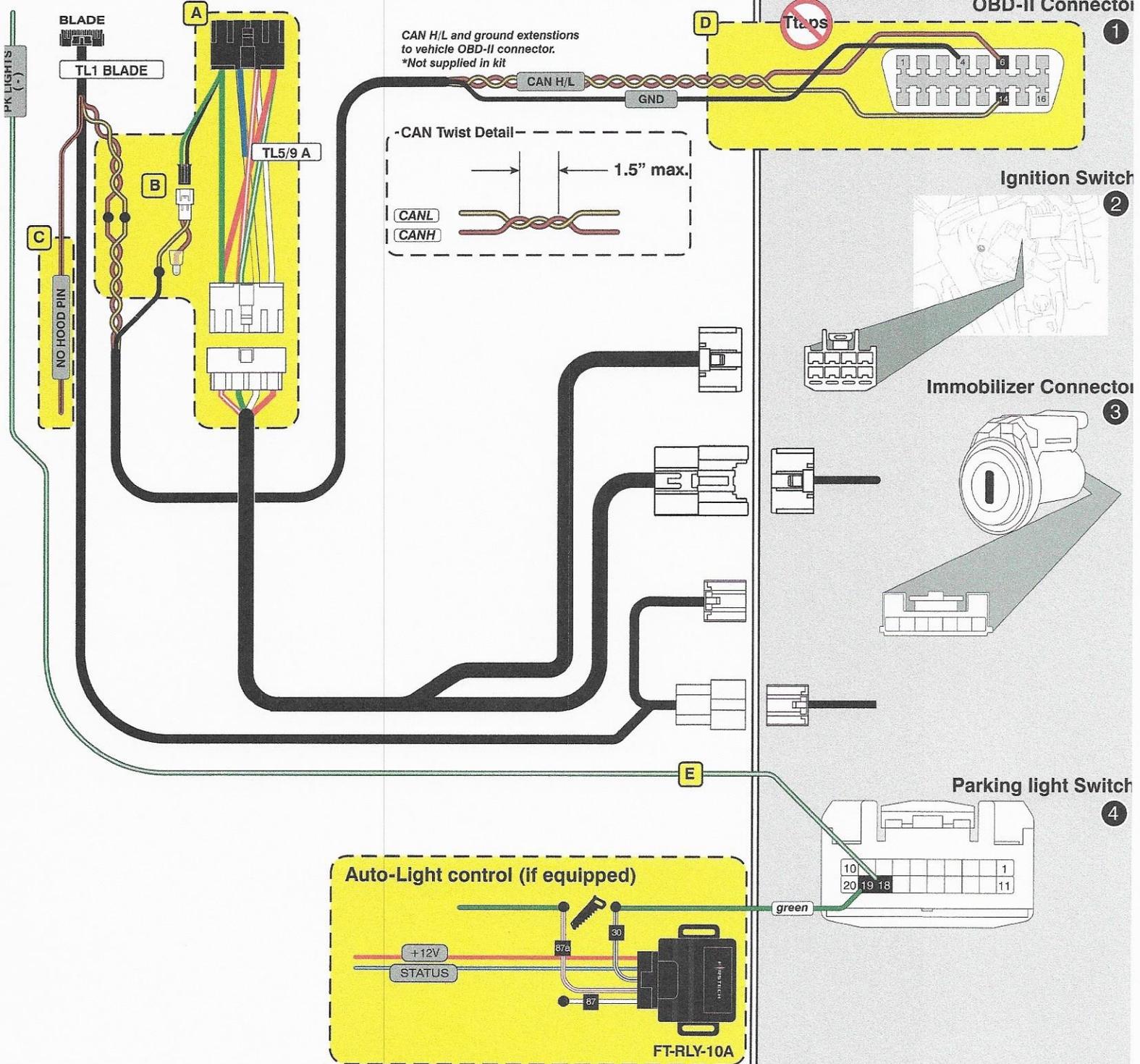
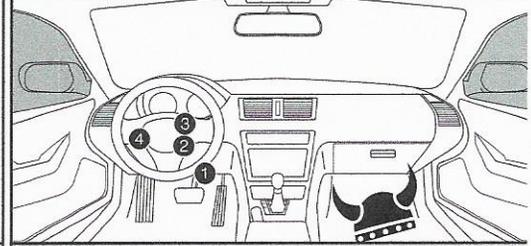
CM900AS/900S Jumper

START ACC IGN1



FTI-TKL1 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.



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.

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

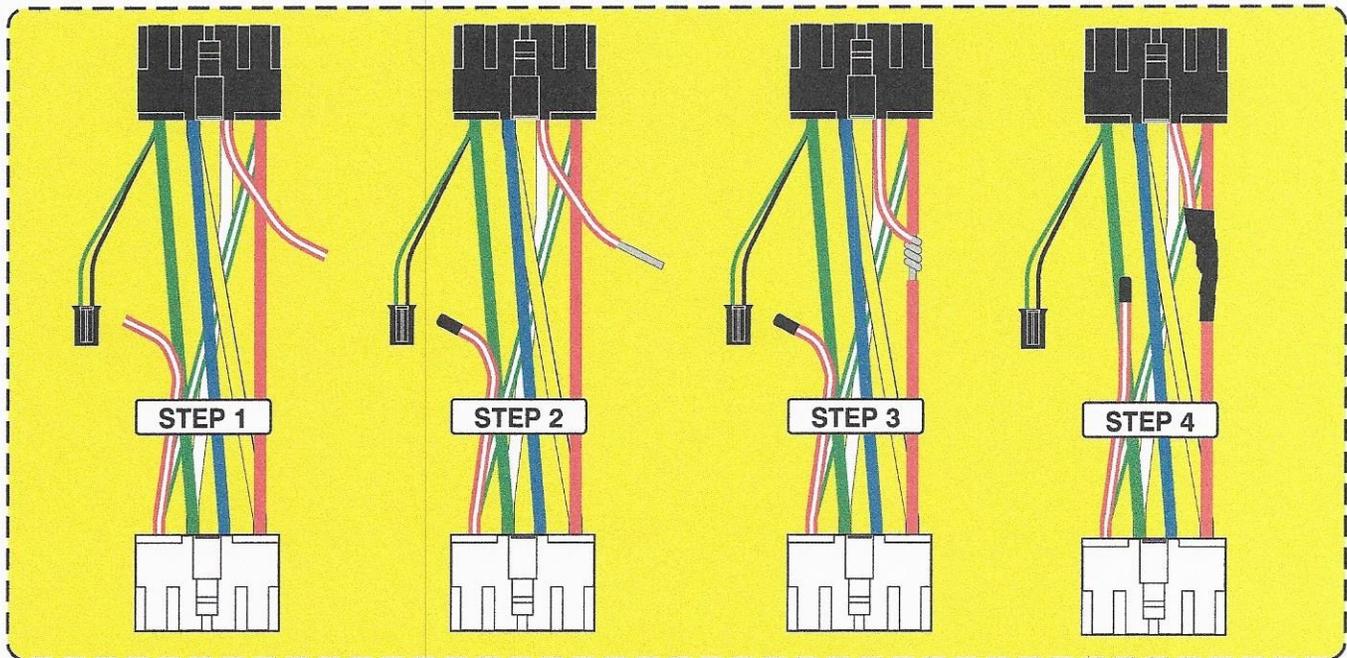
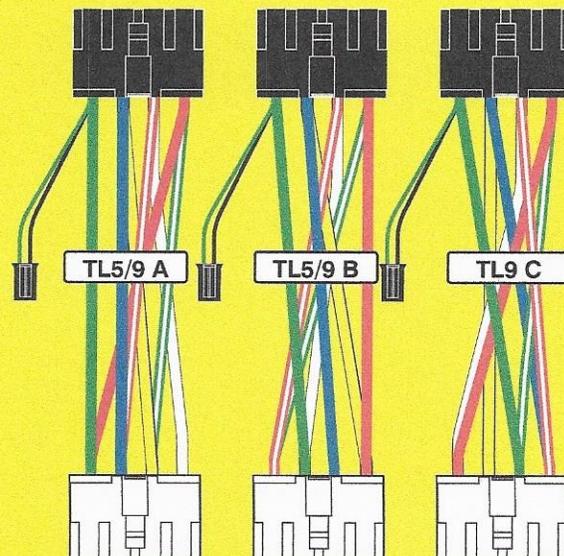


Figure 2: Supplied CN1 Harness Adapters

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



Make	Model	Year	Install	CAN	Lights	Adapter	Trunk	I/O Changes
DL-TL1					Park / Auto			Green White/Blue
Scion	xD 40 bit STD Key	2008-10	Type 1	OBD-II	SW-13	ADPT B		START 2
Toyota	Camry 40 bit STD Key	2007-11	Type 1	OBD-II	SW-18/19	ADPT B		START 2
Toyota	Highlander 40 bit STD Key	2008-10	Type 1	OBD-II	SW-18/19	ADPT B		START 2
Toyota	Sequoia 40 bit STD Key	2008-10	Type 1	OBD-II	SW-18/19	ADPT B		START 2
Toyota	Tundra 40 bit STD Key	2007-10	Type 1	OBD-II	SW-18/19	ADPT B		START 2
Toyota	Yaris 40 bit STD Key	2006-10	Type 1	OBD-II	SW-13	ADPT B		START 2

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.**

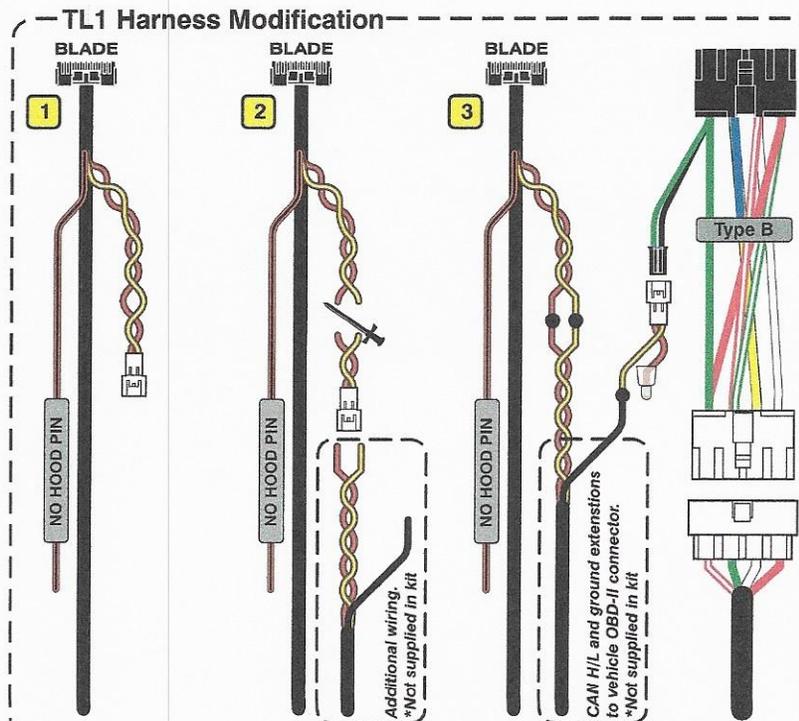
CAN: CAN data connections are located at the OBD-II connector, CANH (pin #6), CANL (pin #14), along with the ground connection at pin #4. **Please ensure solid wire to wire connections are used.**

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.

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- 3 Connect saved 2-pin connector to Type A CN1 adapter, confirm circuit alignment with ground circuit position (black wire) in adapter black 2-pin, connect extension to OBD-II pin #4 ground circuit.

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

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

CM7000/7200 **Cut loop for A/T**

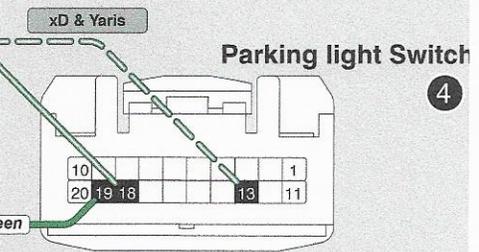
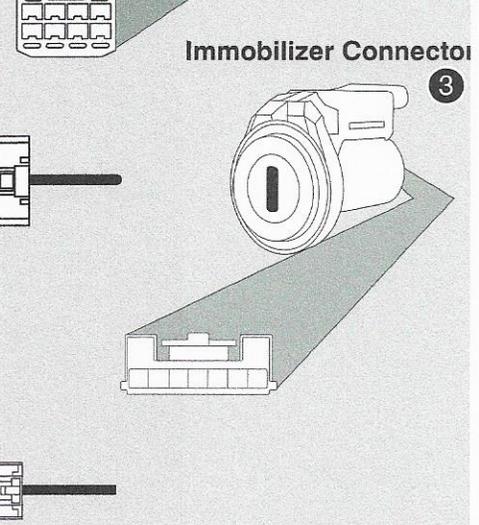
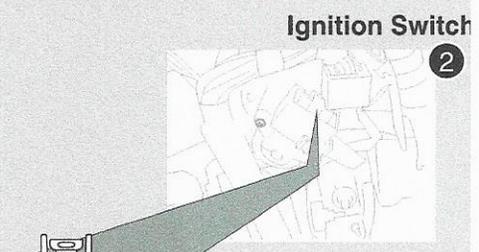
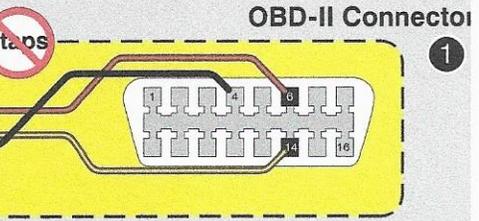
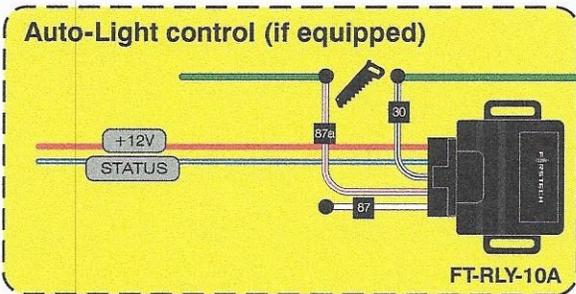
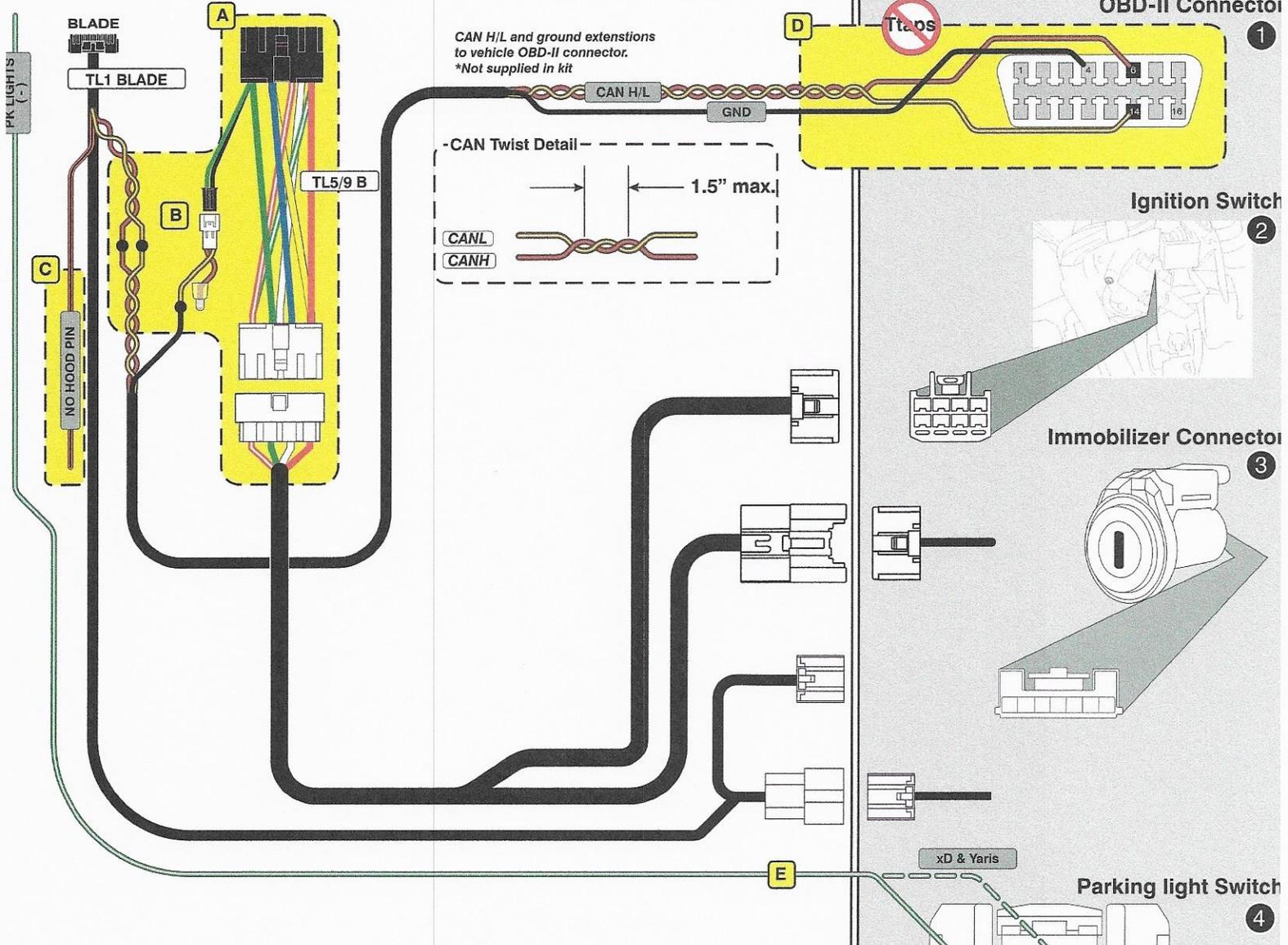
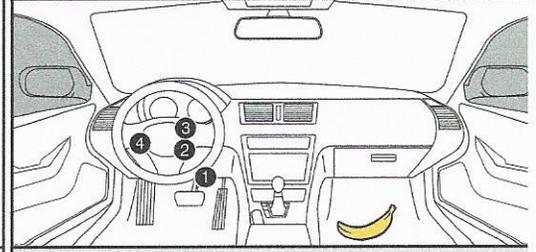
CM-900S/900AS

CM900AS/900S Jumper

START
ACC
IGN1



- 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.
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- 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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