

# FTI-TLP2: Vehicle Coverage and Preparation Notes

MAKE	MODEL	YEAR	INSTALL	PTS	LIGHTS	STARTER	DCM	I/O CHANGES
DL-TL7 Toyota	Highlander Hybrid PTS AT	2020-21	Type 5X	Optional	Park / Auto Type 2	Hybrid 5	Type 3	Green White/Blue n/a

This installation requires **BLADE-AL(DL)-TL7** firmware, flash module and update controller before beginning the installation.

**Install Type 5X:** Main Body ECU (driver side kick panel), steering lock connector, and DCM cut (two possible locations) required. Inspect console to confirm whether the vehicle is equipped with a Start/Stop system, proceed according to notes on next page.

**Harness Modification Required:** The 2022 model year vehicles no longer have an SLC connector. 12V power, ignition, and ground connections require removal of the SLC connector using one of the two connection methods illustrated. 12V is located at pin #5, and ignition is located at pin #12 of the 32 pin MBECU connector, ground is located at pin #4 of the OBD-II connector, the green/red SLC connection is not required, insulate and secure.

**Page 2:** Yellow starter wire not required, insulate and secure, additional relay required for auto-light handling, harness relay wires handle DCM +12V interrupt (REQUIRED).

**Page 3:** Provided green/white starter/parking light wire not required, modify SLC connector and connect remainder as illustrated.

**Lights:** Parking lights are handled using the pre-terminated **green/white** wire bundled with the BLADE connector, Autolight control requires an additional relay and wiring. Remove the (-) pk light wire from the controller's gray I/O connector and replace with the one specified, for status and diagnostic reporting. Connect relay and wiring to the headlight switch connector [B] as illustrated.

**Locks:** This installation type requires additional connections to the vehicle door locks to ensure proper synchronization with the OEM remotes. **The 6-pin lock connector is required for correct operation.** Connect to the control module lock output port.

**Blue/Yellow (PTS):** The PTS wire (blue/yellow) is optional. If Idle Mode is not desired, trim as necessary, then insulate and secure.

*Idle Mode is not a supported feature of the FTI-TLP2 Harness: The Idle Mode feature which allows the user to exit a running has been excluded from the FTI-TLP2 harness wiring. If this feature is desired, please refer to the full BLADE installation diagram for the applicable wiring and make the required connection to the vehicle PTS button.*

## TAKEOVER NOT SUPPORTED: THE VEHICLE WILL SHUT DOWN UPON OPENING DRIVER'S DOOR

### FTI-TLP2: Installation and Configuration Notes

- X MODIFICATION REQUIRED
- A CONNECTIONS REQUIRED
- B CONNECTIONS REQUIRED
- C OPTIONAL CONNECTION
- D CONNECTION REQUIRED
- E CONNECTION REQUIRED



FEATURE COVERAGE														
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IMMOBILIZER DATA	3X LOCK REM START	PTS CONTROL	ARM OEM ALARM	DISARM OEM ALARM	A/M ALARM CTRL FROM OEM REMOTE	A/M RS CONTROL FROM OEM REMOTE	PRIORITY UNLOCK	DOOR LOCK	DOOR UNLOCK	TRUNK/HATCH RELEASE	DOOR STATUS OUT	TRUNK STATUS OUT	TACHOMETER OUT	BRAKE STATUS OUT

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

Jumper Setting

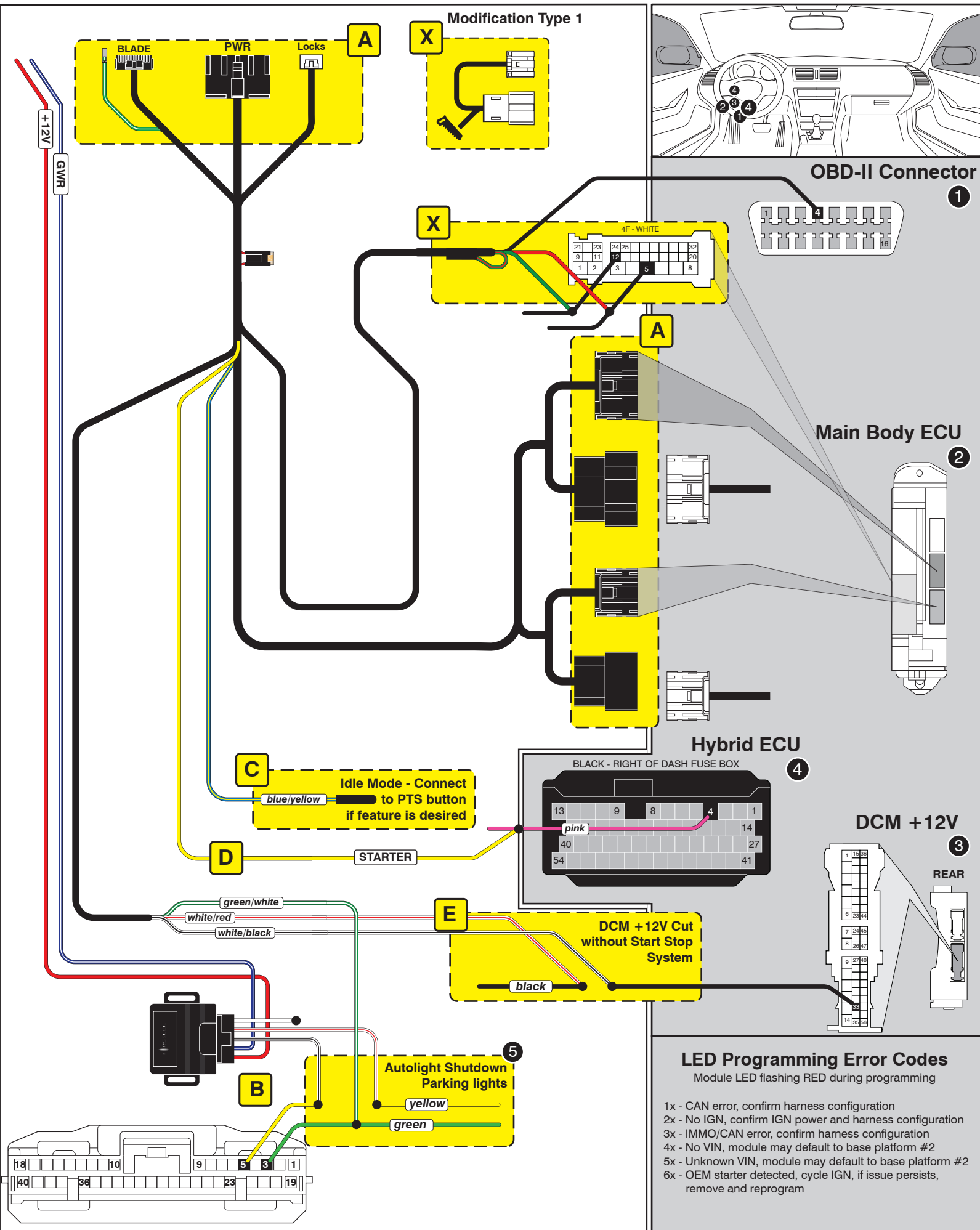
Parking Light	Accessory	Ignition (Default)	Trunk	Starter	Parking Light (Default)	(+)-Door Trigger In (Default)	(-)-Door Trigger In (Default)	Starter Ignition	Accessory (Default)
---------------	-----------	--------------------	-------	---------	-------------------------	-------------------------------	-------------------------------	------------------	---------------------

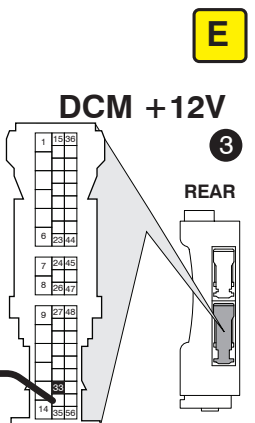
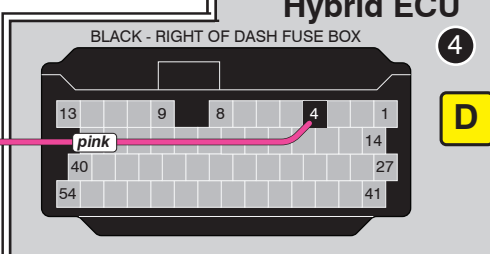
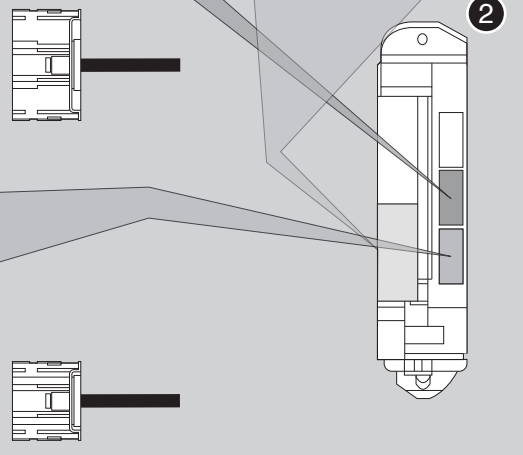
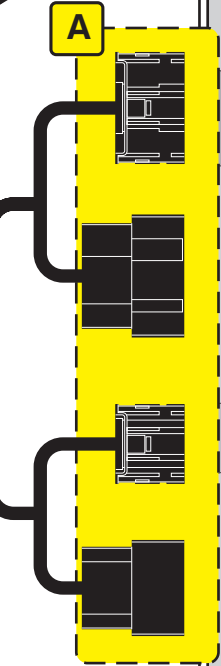
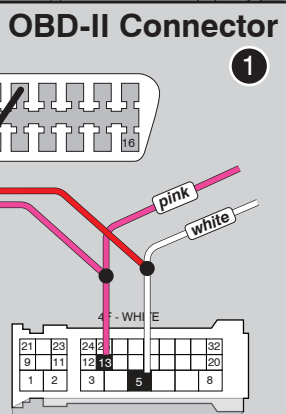
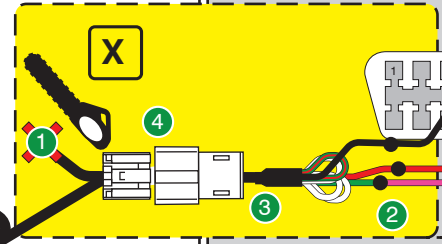
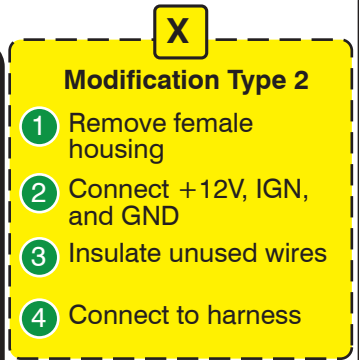
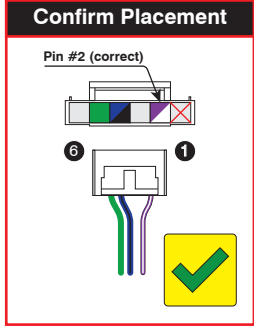
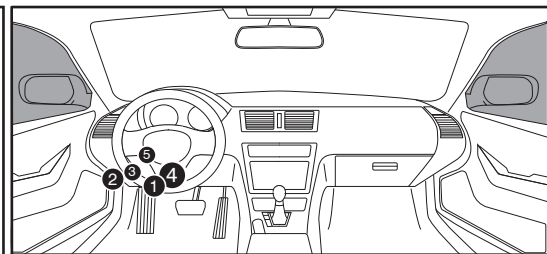
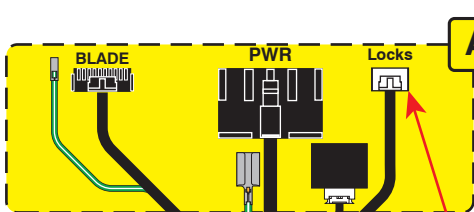
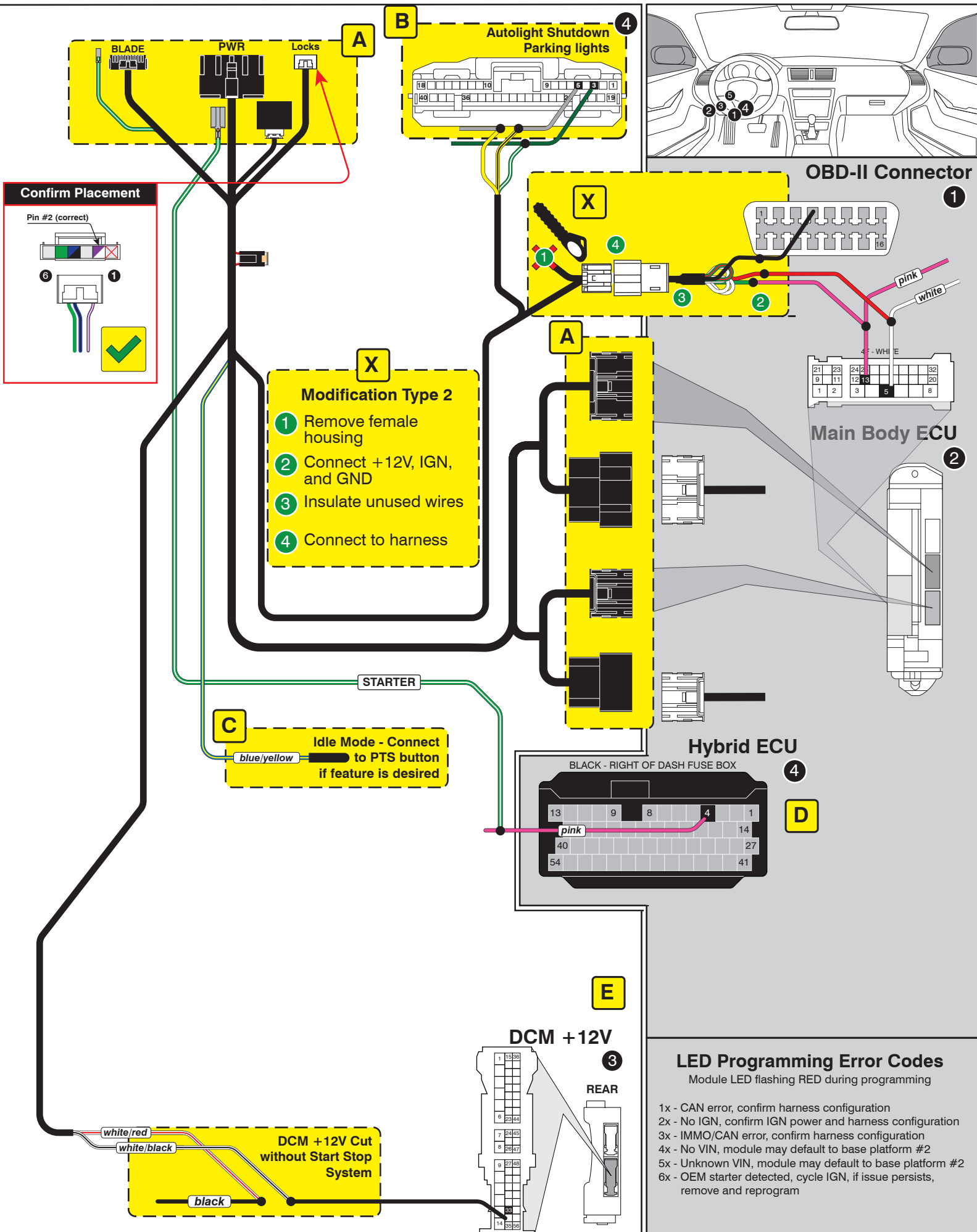
**CM7000/7200** Cut loop for A/T

**CM-900S/900AS**

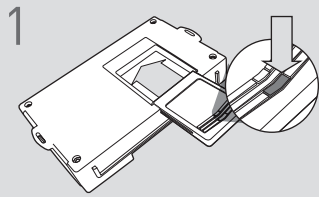
CM900AS/900S Jumper

START  
ACC  
IGN1





## CARTRIDGE INSTALLATION



1 Slide cartridge into unit. Notice button under LED.

2

Ready for Module Programming Procedure.

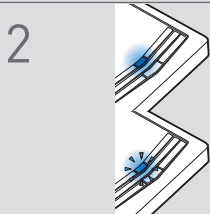
## MODULE PROGRAMMING PROCEDURE

### NOTE

I IMPORTANT: The hood must be closed.



1 Push start button twice [2x] to ON position.

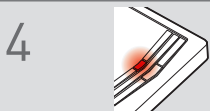


2 Wait, if LED turns solid BLUE for 2 seconds, proceed to step 7.

If LED flashes BLUE rapidly, proceed to step 3.



3 Push start button once [1x] to OFF position.



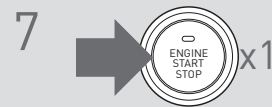
4 Wait, LED will turn solid RED. (This may take up to 5 minutes.)



5 Push start button twice [2x] to ON position.



6 Wait, LED will turn solid BLUE for 2 seconds.



7 Push start button once [1x] to OFF position.

8

Module Programming Procedure completed.