

# FTI-FDK1: Vehicle Coverage and Preparation Notes

Make	Model	Year	Install	CAN	Lights	Trunk/Liftgate	Brake	I/O Changes
DL-FM2 Mercury	Mariner Key	2008-10	Type 1	OBD-II	Park / Auto A	BCM	N/A	Green White/Blue N/A

### Firmware:

Covered vehicles use **BLADE-AL(DL)-FM2**, flash module and update the controller firmware before installing.

### Controller Configuration:

Set feature 1-11 to option 2 (Ignition pulse - same timing as disarm pulse) for proper handling of OEM alarm.

### Door Locks:

**Vehicles with alarm:** Door locks require three wire connections (1-unlock, 2-lock) and two (2) diodes isolating the lock wires.

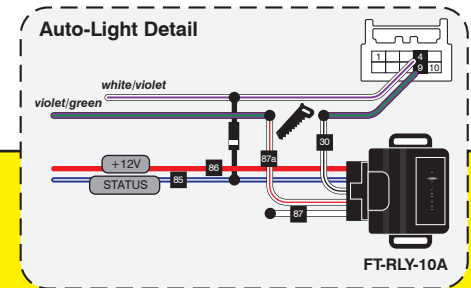
**Vehicles without alarm:** Door locks require two wire connections and no diodes.

### Auto-lights:

If vehicle is equipped with auto-light feature, refer to the diagram below for required connections.

Auto-light: **violet/green** (pin #9)

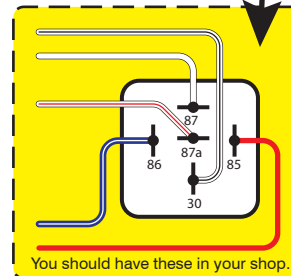
Light-off: **white/violet** (pin #4)



**\*** Please note that the harness has changed, jumpers have been added that allow selecting between IGN and PATS power for BLADE programming. This install type does not require using these jumpers, do not connect.

## FTI-FDK1 - Installation and Configuration Notes

- A** DO NOT CUT - DL-FM3 TX loop
- B** DO NOT CONNECT unless vehicle has NO IMMOBILIZER
- C** CONNECTIONS FOR VEHICLE WITHOUT ALARM
- D** CONNECTIONS FOR VEHICLE WITH ALARM
- E** TRUNK/LIFTGATE CONNECTION



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

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

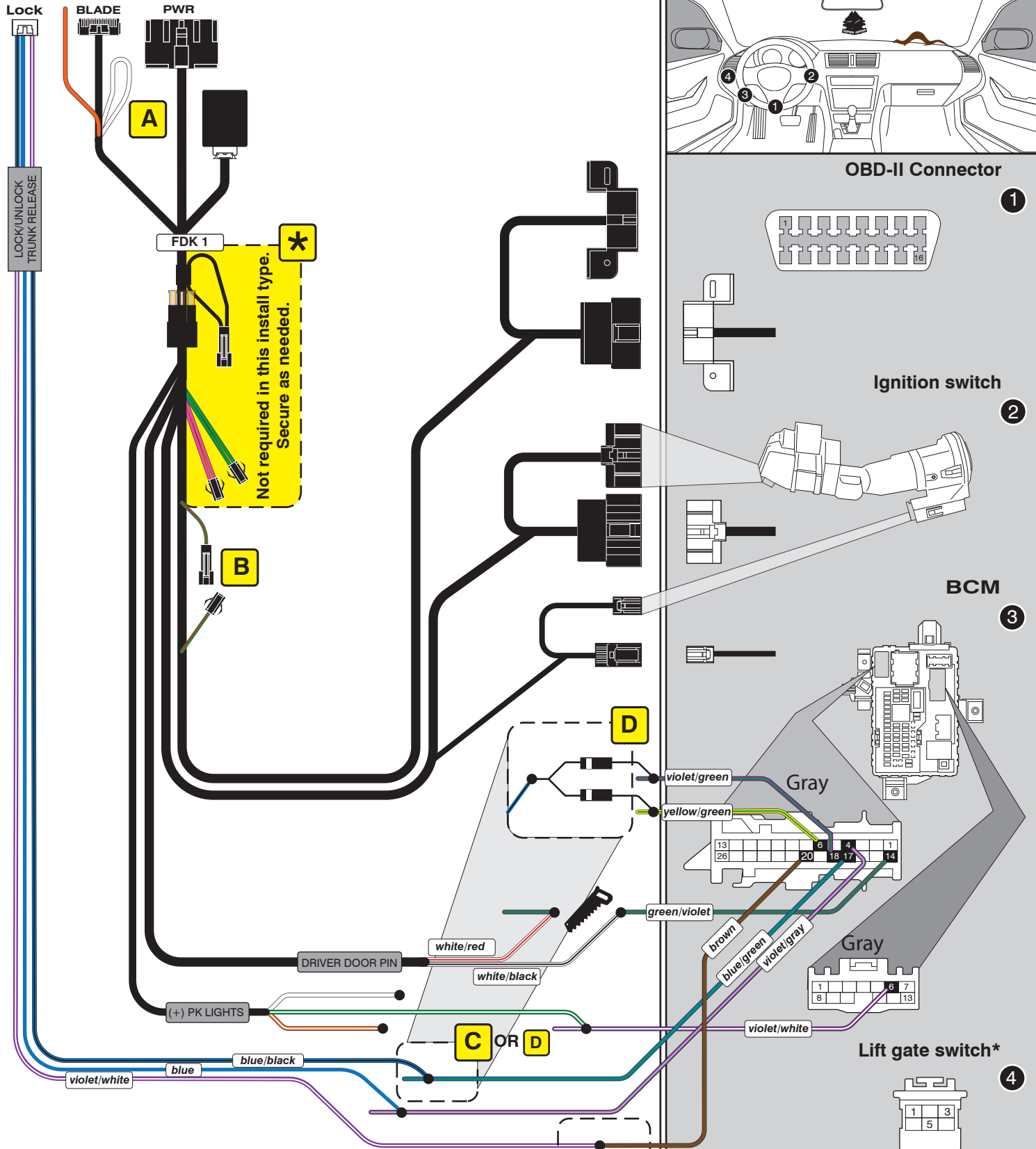
**CM-900S/900AS**

**CM900AS/900S Jumper**

START  
ACC  
IGN1



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"/>
IMMOBILIZER DATA	DOOR LOCK	DOOR UNLOCK	ARM OEM ALARM	DISARM OEM ALARM	TRUNK/HATCH RELEASE			DOOR STATUS	RAP SHUTDOWN	BRAKE STATUS	HOOD STATUS	TACH OUTPUT	
										A/M CONTROL	PARKING LIGHTS		



**LED Programming Error Codes**

Module LED flashing RED during programming

- 1x - CAN error, check wiring
- 2x - VIN error, check CAN wiring
- 3x - Wrong firmware, confirm firmware flashed
- 4x - VIN error, vehicle not identified, contact support
- 5x - Immobilizer learn error, check RX/TX wiring
- 6x - KLON error, check RX/TX wiring, confirm pin positions
- 7x - KLON error, process failed, reset module and start over
- 8x - Encryption error, confirm key encryption, 80 bit detected
- 9x - Key in cylinder, remove and proceed

\*Edge, Flex, and MKX only

## CARTRIDGE INSTALLATION



1 Slide cartridge into unit. Notice button under LED.

2

Ready for Module Programming Procedure.

## MODULE PROGRAMMING PROCEDURE - WITH ONE OEM KEY & KLON



1 Insert key into ignition.



2 Turn key to ON position.



3 LED will turn solid RED.



4 If LED turns solid BLUE, proceed with step 13.

If LED flashes BLUE, proceed with step 5.



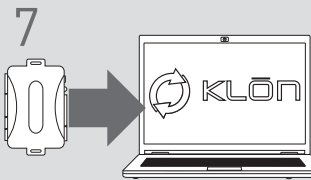
If the LED begins to flash RED/BLUE, the key has an 80-bit encryption that is not covered by KLON.



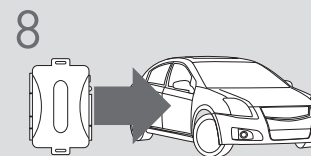
5 Turn key to OFF position.



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



7 Connect module to computer and proceed with extended programming.



8 **WARNING:** Do not press module programming button.  
Connect power first.  
Connect module to vehicle.



9 Insert key into ignition.



10 Turn key to ON position.



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



12 Turn key to OFF position.

13

Module Programming Procedure completed.

## MODULE PROGRAMMING PROCEDURE - WITH TWO OEM KEYS

### NOTE

I To complete this procedure, both OEM keys are required.



II Keep both OEM remotes at least 10 feet away from the vehicle.



Use both valet keys for the module programming procedure.

1 Insert key 1 into ignition.



2 Turn key 1 to ON position.



3 If LED turns solid BLUE, proceed with step 18.

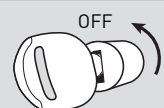


If LED turns solid RED, proceed with step 4.

4 Wait, LED will flash BLUE. (This may take up to 10 seconds.)



5 Turn key 1 to OFF position.

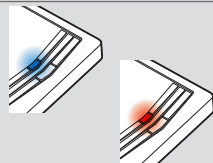


6 Turn key 1 to ON position.



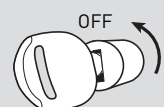
**!** If the LED begins to flash RED, verify the RX and TX connections between the module and the vehicle.

7 If LED turns solid BLUE for 2 seconds, proceed with step 18.

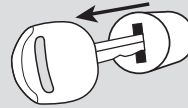


If LED turns solid RED, proceed with step 8 within 5 seconds, after LED turns OFF.

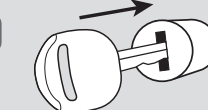
8 Turn key 1 to OFF position.



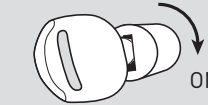
9 Remove key 1.



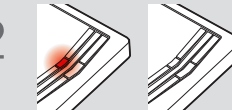
10 Insert key 2 into ignition.



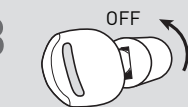
11 Turn key 2 to ON position.



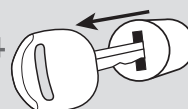
12 Wait, LED will turn solid RED then will turn OFF.



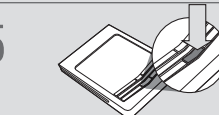
13 Turn key 2 to OFF position.



14 Remove key 2.



15 Press and release programming button.

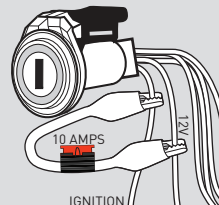


16 Remote start vehicle.



OR

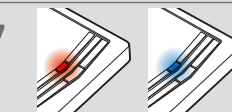
Jump the ignition to 12volts.



IGNITION

**!** If the LED begins to flash RED, you are using a cloned key or used the same key twice.

17 Wait, LED will turn solid RED then will turn solid BLUE.



18 Module Programming Procedure completed.