Make	Model	Year	Install	CAN	Lights	Trunk/Liftgate	Brake	I/O Changes
DL-FM2 Lincoln	MKZ Key	2010-12	Type 2	OBD-II	Park / Auto **A**	N/A	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 wth 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 #4)
Light-off: *white/violet* (pin #6)

Auto-Light Detail

* 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

You should have these in your shop.

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

Jumper Setting

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

CM7000/7200   Cut loop for A/T

CM-900S/900AS

CM900AS/900S Jumper

START
ACC
IGN1

FEATURE COVERAGE

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

Lock   **BLADE**   **PWR**

LOCK/UNLOCK
TRUNK RELEASE

A

FDK 1

*

Not required in this install type.
Secure as needed.

B

D

violet/green

yellow/green

Gray

green/violet

DRIVER DOOR PIN

white/red

white/black

(+) PK LIGHTS

C OR **D**

blue/green *violet/gray*

Gray

blue/black

blue

violet/white

violet/white

13
26
18 17
6 4 14

1
8
6 7
13

OBD-II Connector   **①**

16

Ignition switch   **②**

BCM   **③**

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

INSTALL GUIDE

BLADE SERIES

DOORLOCK INTERFACE
FORD/LINCOLN/MAZDA/MERCURY

Patent No. US 8,856,780 CA 2759622

Page 11 of 13   COM-BLADE-AL(DL)-FM2-EN   Doc. No.: ##65139##   20190812

CARTRIDGE INSTALLATION
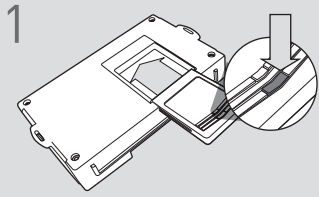
1 Slide cartridge into unit. Notice button under LED.

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.
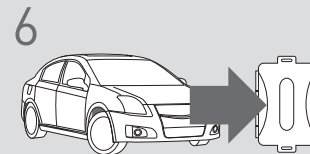
6 WARNING:
Disconnect power last.
Disconnect module from vehicle.
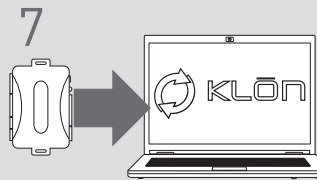
7 Connect module to computer and proceed with extended programming.

KLON
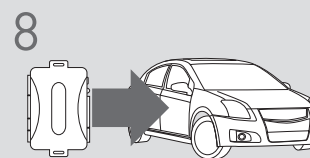
8 WARNING: Do not press module programming button.
Connect power first.
Connect module to vehicle.
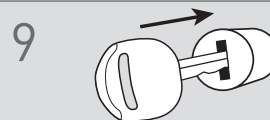
9 Insert key into ignition.
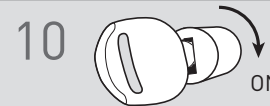
10 Turn key to ON position.

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

12 Turn key to OFF position.

13 Module Programming Procedure completed.

INSTALL GUIDE

BLADE SERIES

DOORLOCK INTERFACE
FORD/LINCOLN/MAZDA/MERCURY

Patent No. US 8,856,780 CA 2759622

Page 12 of 13   COM-BLADE-AL(DL)-FM2-EN   Doc. No.: ##65139##   20190812

MODULE PROGRAMMING PROCEDURE - WITH TWO OEM KEYS

NOTE

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

OR

II   Keep both OEM remotes at least 10 feet away from the vehicle.
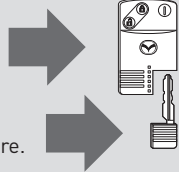
Use both valet keys for the module programming procedure.

1   Insert key 1 into ignition.
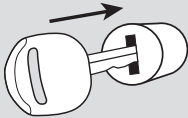
2   Turn key 1 to ON position.   ON
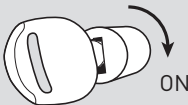
3   If LED turns solid BLUE, proceed with step 18.

If LED turns solid RED, proceed proceed with step 4.

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

5   OFF   Turn key 1 to OFF position.
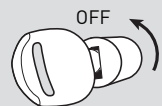
6   Turn key 1 to ON position.   ON
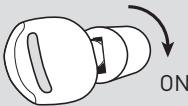
> **!** If the LED begins to flash RED, verify the RX and TX connections between the module and the vehicle.

7   If LED turns solid BLUE for 2 seconds, proceed with step 18.
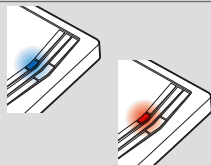
If LED turns solid RED, proceed with step 8 within 5 seconds, after LED turns OFF.
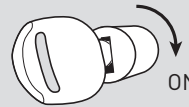
8   OFF   Turn key 1 to OFF position.
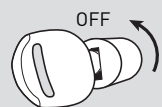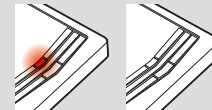
9   Remove key 1.
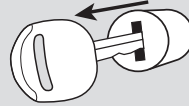
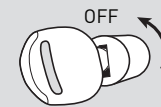**10**   Insert key 2 into ignition.
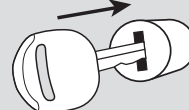
11   Turn key 2 to ON position.   ON
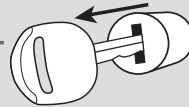
12   Wait, LED will turn solid RED then will turn OFF.
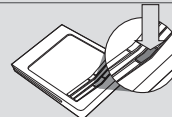
13   OFF   Turn key 2 to OFF position.

14   Remove key 2.

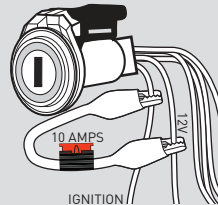**15**   Press and release programming button.

16   Remote start vehicle.

OR

Jump the igntion to 12volts.

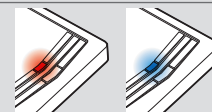10 AMPS   12V   IGNITION

> **!** 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.