

FTI-MAP1: Vehicle Coverage and Preparation Notes

Make	Model	Year	Install	CAN	Lights	Clutch 1	Clutch 2	I/O Changes
DL-MA3 Mazda	MX-5 PTS Convertible MT	2016-21	Type 1	SSU	Park / Auto Type 2	Type 2 yellow	Type 2a ppl/black	Green White/Blue N/A

Firmware:

This installation requires **BLADE-AL(DL)-MA3** firmware, flash module and update controller before beginning the installation.

WARNING: Disconnect vehicle battery before disconnecting any of the connectors at the START/STOP Unit. Failure to do so may result in damage to the vehicle keyless receiver (PN: KD33 675D4, X1T65171), resulting in required replacement.

Optional hazard light connection for remote start status and diagnostics:

The MAP1 harness is provisioned to utilize the vehicle hazard lights for status and diagnostic display if desired. The pin terminated **green/white** wire needs to be inserted into any POC available in the controller's I/O connector, and the selected POC setting changed to either **Hazard1**, POC option #30 (momentary), or **Hazard2**, POC option #23 (latching), depending on how the factory switch engages.

Parking light connection: The vehicle headlight switch must be removed to access parking light connections which are detailed on the next page, and in a video published in the FirstTechFeed Group on Facebook. Scan the QR Code below to view the video.

Type 1 Clutch wiring: The FTI-MAP1 harness is pre-wired for Type 1 clutch bypass handling when used in M/T applications, with a compatible CM7/X series controller. The **Type 1** application uses the pre-terminated **red/black** wire, *the yellow and purple/black wires are not used in this application, please insulate and secure the unused wires.*

Replace the existing **red/black** wire in the gray CM I/O connector, or any other available POC configured for 2nd START, with the **red/black** wire provided in the harness assembly.



FTI-MAP1: Installation and Configuration Notes

- A** DISCONNECT BATTERY BEFORE PROCEEDING
- B** OPTIONAL CONNECTION (IF NOT USING STANDARD PARKING LIGHT CONNECTION)
- C** NOT REQUIRED
- D** REQUIRED CONNECTION (IF NOT USING PROVIDED HAZARD LIGHT CONNECTION)
- E** SWITCH REMOVAL/DISASSEMBLY REQUIRED

•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"/>	(-)Door Trigger In	<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"/>

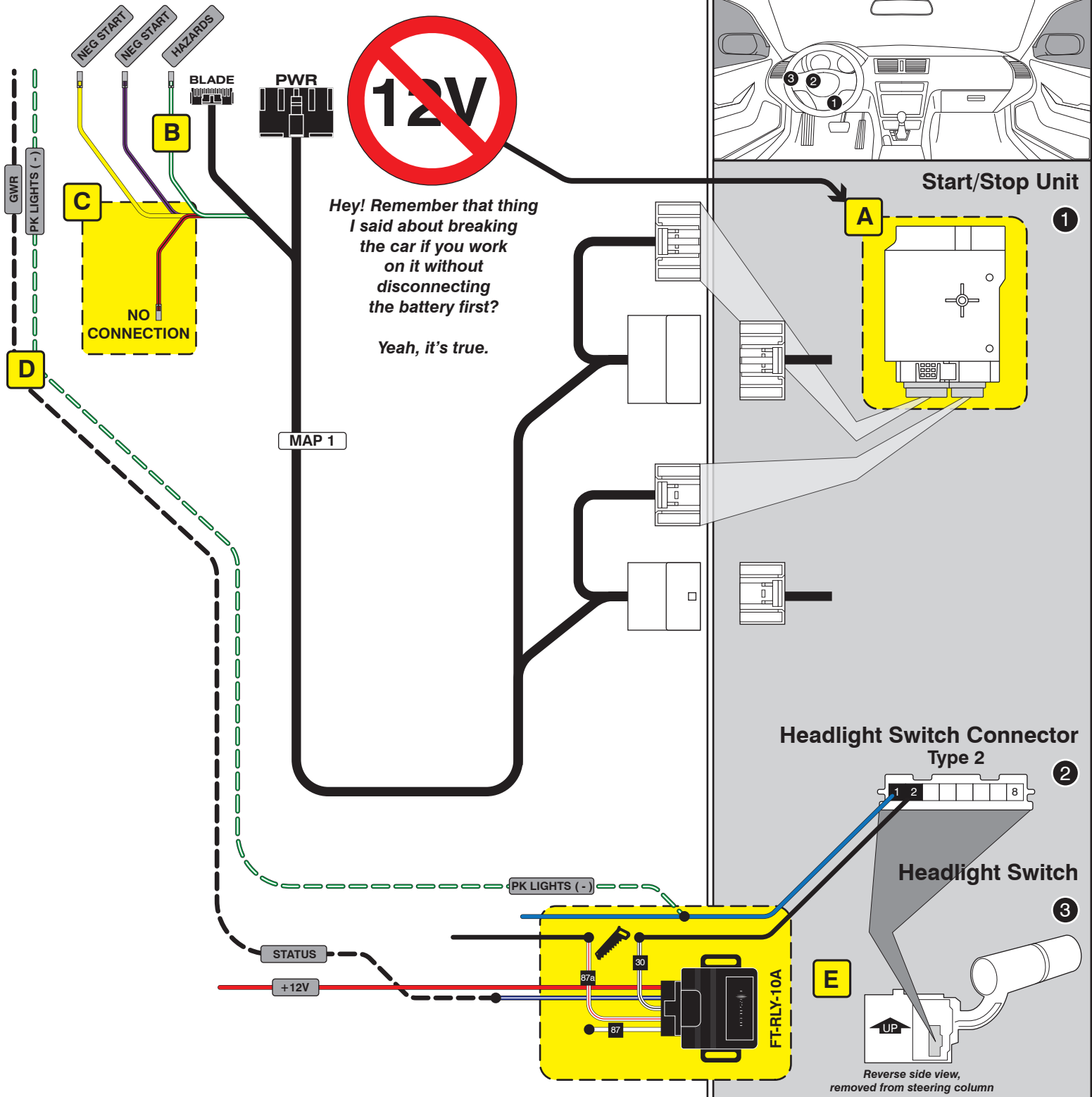
CM7000/7200 Cut loop for A/T

CM-900S/900AS

CM900AS/900S Jumper



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	PRIORITY UNLOCK	DOOR LOCK	DOOR UNLOCK	ARM OEM ALARM	DISARM OEM ALARM	POWER LIFTGATE			DOOR STATUS	TRUNK STATUS	HOOD STATUS	BRAKE STATUS	E-BRAKE STATUS
									TACH OUTPUT	A/M ALARM CTRL	A/M RS CTRL		
												PARKING LIGHTS	HAZARD LIGHTS

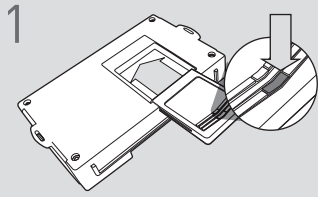


LED Programming Error Codes

Module LED flashing RED during programming

- 1x - CAN error, check connectors and CAN voltage
- 2x - No IGN, check connectors and IGN voltage
- 3x - Timeout, redo programming, confirm CAN voltage
- 4x - BCM communication error, connections/CAN voltage
- 5x - Firmware does not match wiring, confirm current version
- 6x - VIN error, flash again and confirm vehicle entry
- Rapid RED - Cycle IGN and START, reset module and repeat entire programming sequence over.

CARTRIDGE INSTALLATION



1 Slide cartridge into unit. Notice button under LED.

2

Ready for Module Programming Procedure.

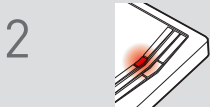
MODULE PROGRAMMING PROCEDURE

NOTE

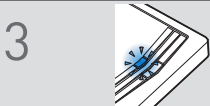
1 **WARNING:** Hood, doors, trunk/hatch must be closed prior to remote start sequence.



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



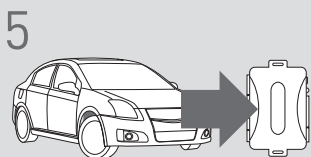
2 Wait, LED will turn solid RED to confirm that the ignition is ON.



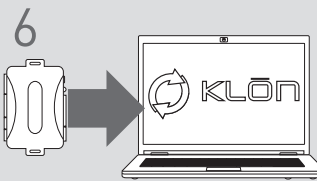
3 Wait 10 seconds, LED will flash BLUE rapidly.



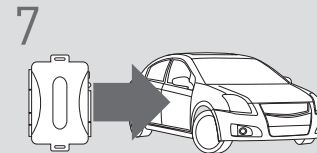
4 Push start button once [1x] to OFF position.



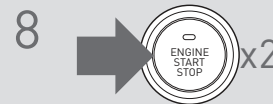
5 **WARNING:** Disconnect power last. Disconnect RS from vehicle.



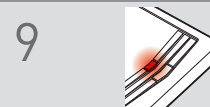
6 Connect RS to computer and proceed with extended programming.



7 **WARNING:** Do not press RS programming button. Connect power first. Connect RS to vehicle.



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



9 Wait, LED will turn solid RED to confirm that the ignition is ON.



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

! If vehicle is equipped with power liftgate: open and close the power liftgate with OEM keyfob.

11

Module Programming Procedure completed.

WARNING: READ BEFORE REMOTE STARTING THE VEHICLE

IMPORTANT

- I All vehicle doors must be closed and locked prior to remote start sequence. Failure to comply will result in remote starter malfunction.

TAKE OVER PROCEDURE - PTS - TO THE VEHICLE OWNER

NOTE

- I All vehicle doors must be closed and locked prior to remote start sequence.



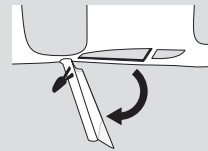
TIME RESTRICTION COMING UP !

1



Unlock vehicle door using OEM or after-market remote, or door request switch.

2



TIME RESTRICTION

Within 45 SECONDS from previous step:

Open vehicle door.
Enter vehicle.
Close vehicle door.

Press and release BRAKE pedal.

3

Take over procedure completed.



Failure to follow procedure will result in vehicle engine shutdown.