

Make	Model	Year	Install	CAN	Lights	IGN	Hood	I/O Changes
DL-CH13					Park / Auto			Green White/Blue
RAM	1500	2019	Type 2	CJB/BCM	C	BCM		

Hey! Read this stuff before you start the installation...

Firmware:

Covered vehicle uses **BLADE-AL(DL)-CH13**, flash module and update the controller firmware before installing.

CAN:

CAN connections utilize the included CAN extension cable to connect to either the green CAN junction block (CJB, driver side dash) or the BCM (C5, CANH pin #25, CANL pin #26)

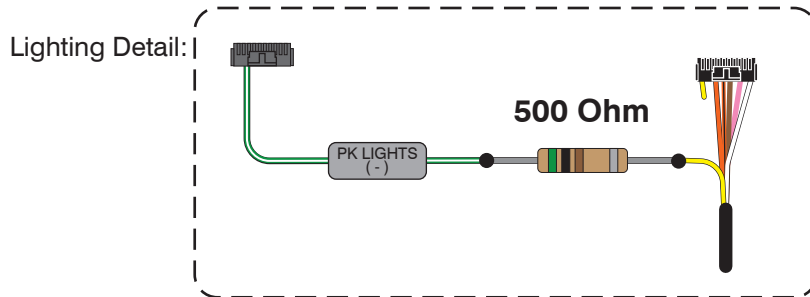
Lighting:

Type C parking lights use the 10-pin connector, but require additional circuit manipulation at the BLADE connector, redirecting the **yellow** (MUX) output to a 500 Ohm resistor and the controller **green/white** (-) parking light output. See lighting detail below.

Ignition:

Ignition is available at the vehicle BCM (connector C5, pin #27, **brown/black**)

Okay, now get to work...



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

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

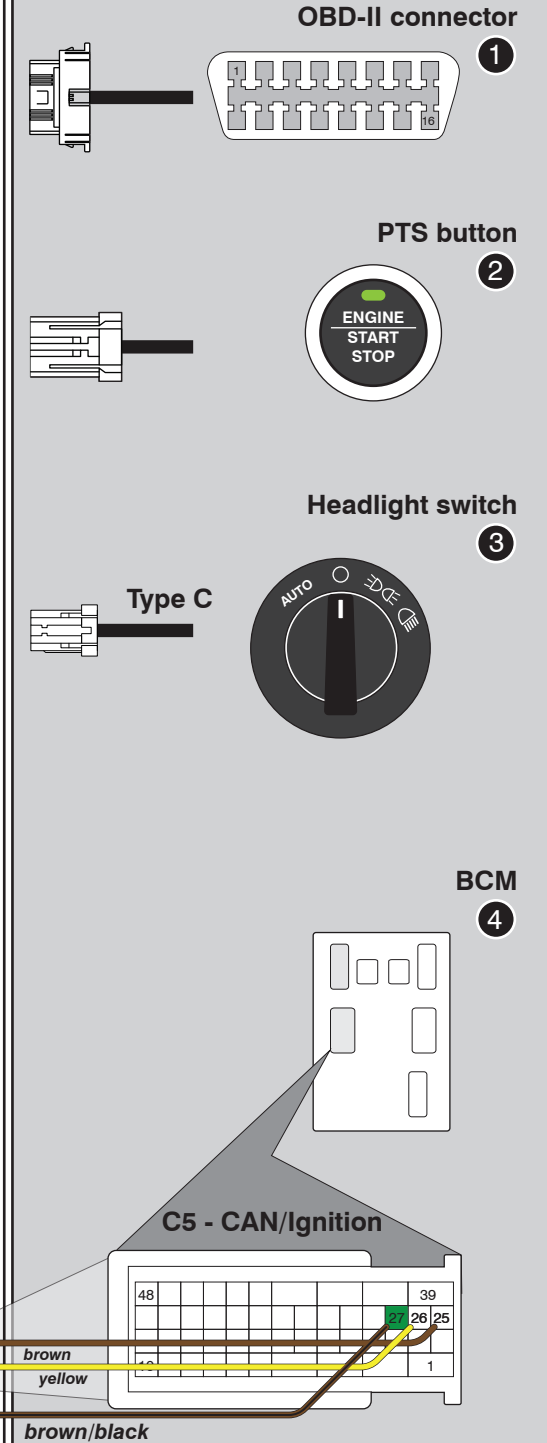
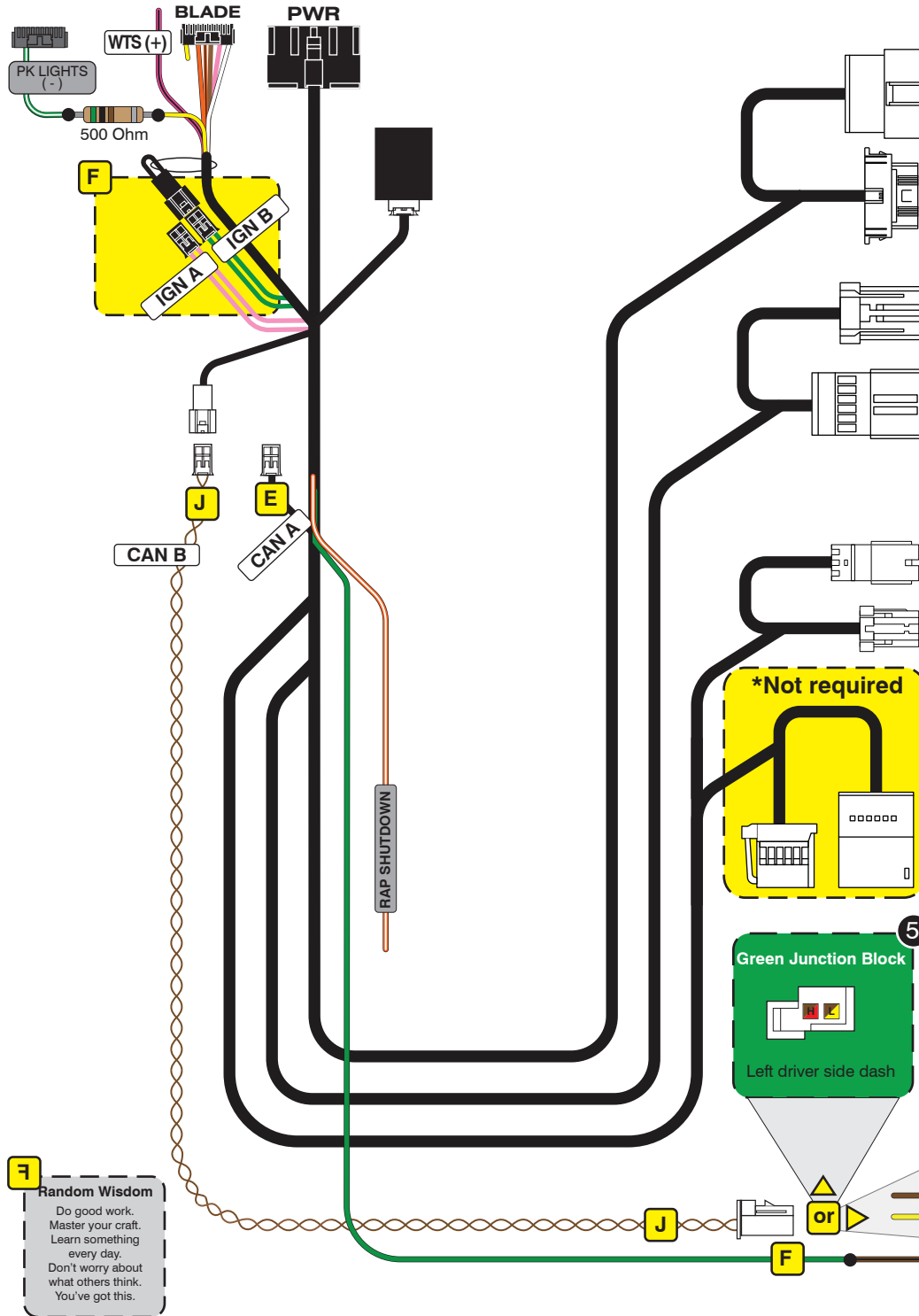
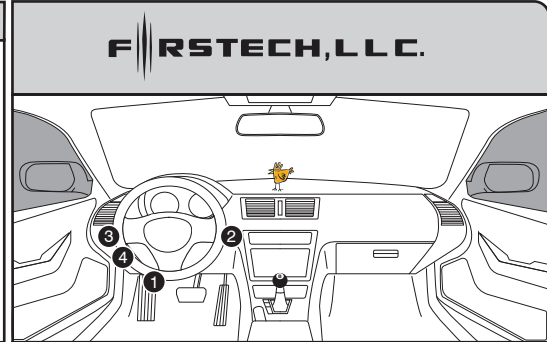
CM-900S/900AS

CM900AS/900S Jumper	
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
START	
ACC	
IGN1	



FTI-CDP1 Type 2D - Installation Notes & Wiring Diagram

- J** Covered vehicles utilize Type 2 CAN connection and optional CAN extension cable to source data from driver side CAN junction block (white) or BCM connector C5 (pin #25 CANH, pin #26 CANL)
- E** Type 1 CAN connection not used when using DL-CH13 firmware, CAN data from OBD-II connector is not usable and will result in failure to program, **DO NOT** use harness provision at OBD-II connector
- F** Ignition source jumper is connect to green leads for covered vehicles, ignition is available at the vehicle BCM, connector C5 (pin #27, **brown/black**) as illustrated
- F** Random Wisdom



Module Programming Procedure CH13

- Step 1 - Close and open driver door to wake data bus
- Step 2 - Press **unlock** on OEM key fob, LED should blink blue
- Step 3 - Activate IGN, press PTS button (2x)
- Step 4 - If LED turns red, turn IGN off/on 6 to 8 times until LED blinks rapid blue
- Step 4a - If LED blinks rapid blue, deactivate IGN
- Step 5 - Disconnect controller and complete extended key programming
- Step 6 - Reconnect to vehicle and activate IGN, LED should go solid blue
- Step 7 - Programming complete

LED Programming Error Codes

- Module LED flashing RED during programming
- 1x - CAN Error, check CAN wiring and voltages
 - 2x - Key code not learned, confirm unlock sent, check CAN
 - 3x - No ignition, check ignition connection
 - 4x - No immo activity, check wiring, confirm fob present
 - 5x - No VIN, check CAN wiring, confirm vehicle entry
 - 6x - Same as 4x
 - 8x - Ignition never turns off, check connection
 - 9x - No LIN data, confirm connection at PTS button

FTI-CDP1 Type 2D

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