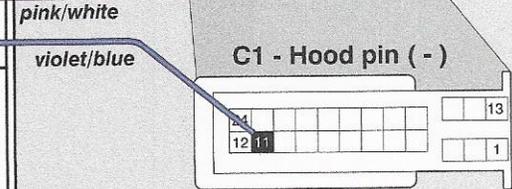
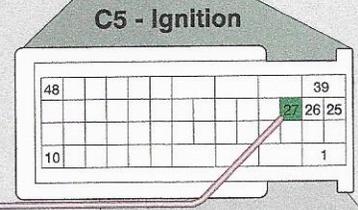
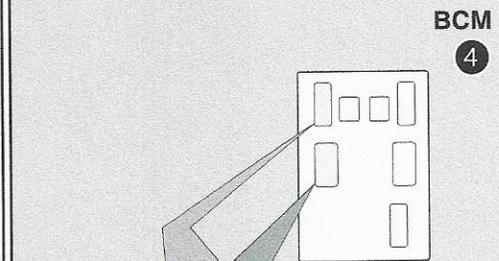
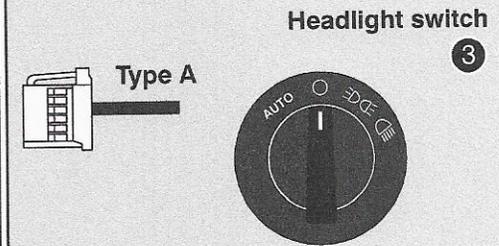
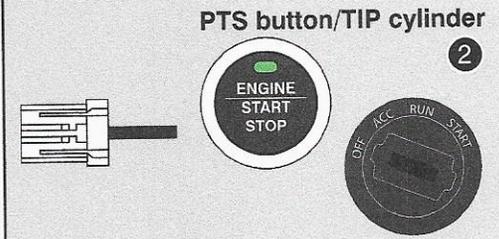
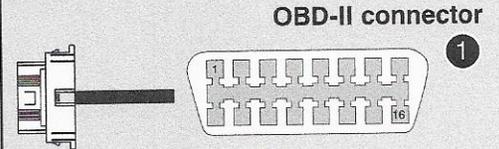
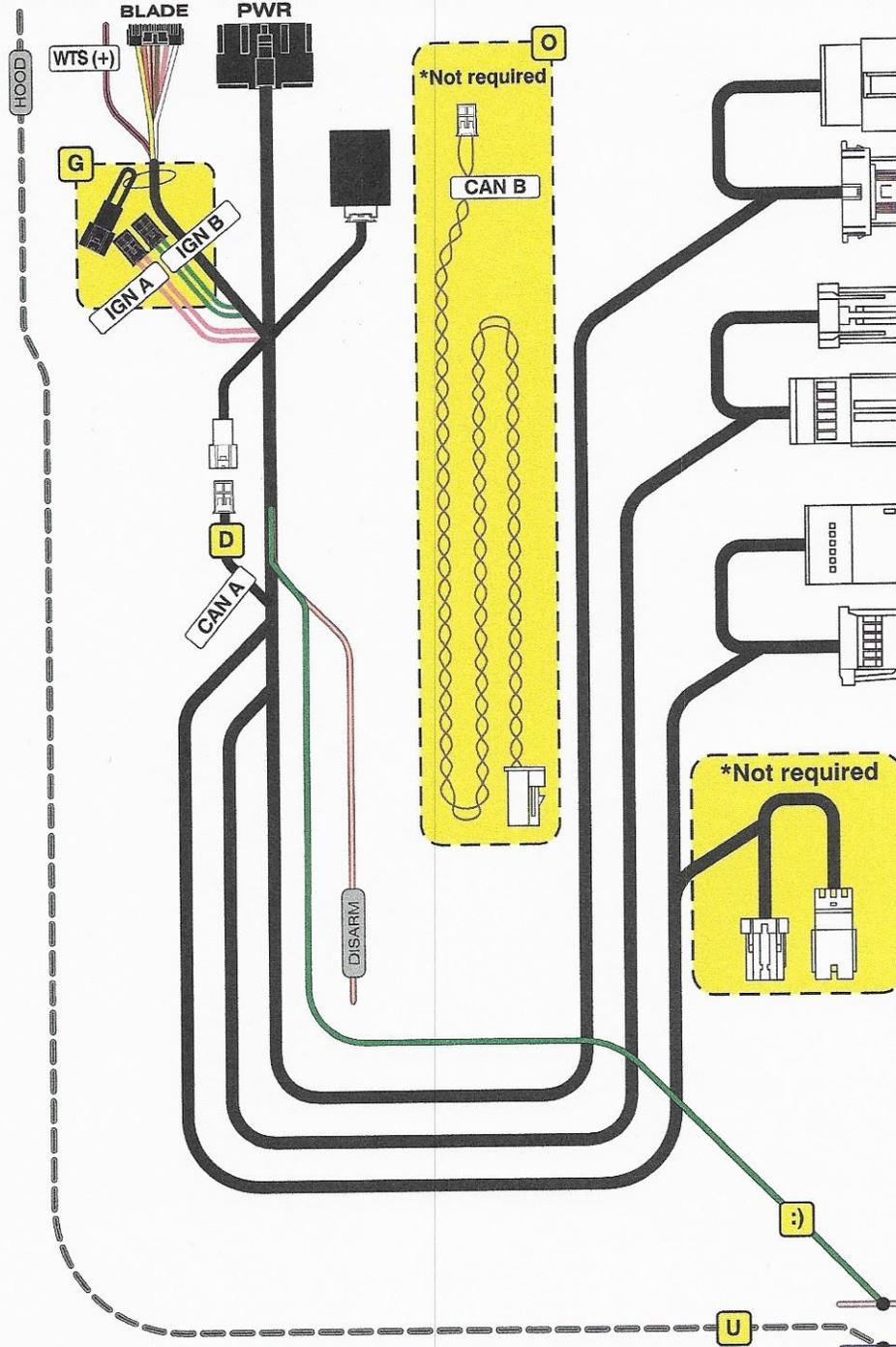
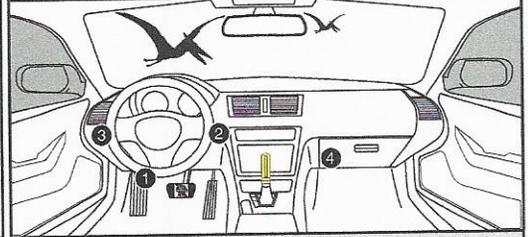


FT-CDP1 Type 1A - Installation Notes & Wiring Diagram

- D** Type 1 CAN connection uses harness provision to source CAN data from OBD-II connector
- O** Type 2 CAN extension cable is not used in the covered vehicles, please ensure that all unused connections are properly insulated and secured for safety.
- U** Vehicle hood pin status (-), connection located at BCM connector C1 (pin #13, **violet/blue**)
- G** Ignition source jumper, **NO CONNECTION** required for this install type. Secure unused ignition jumpers to ensure safety
- :)** Ignition connection varies by vehicle, component locator illustrates common connection to BCM connector C5 (pin #27, **pink/white**), see notes on coverage page for location specifics and exceptions

FIRSTECH, LLC.



Module Programming Procedure CH7/8

- 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 - Remove valet key and battery from OEM key fob
- Step 4 - Activate IGN, press PTS button (2x) using tip of OEM key fob
- Step 5 - When LED turns red, press button again to deactivate IGN
- Step 6 - Activate IGN again, LED should blink rapid blue, deactivate IGN
- Step 7 - Disconnect controller and complete extended key programming
- Step 8 - Reconnect to vehicle and activate IGN, LED should go solid blue
- Step 9 - 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 PTS signal, check button connection
 - 4x - No immobilizer data, check wiring
 - 4x - No immobilizer, confirm only one key in vehicle
 - 5x - No ignition, check wiring
 - 6x - VIN error, check CAN wiring, confirm vehicle application
 - 7x - PTS signal error, check button connection
 - 8x - No PTS signal, check button connection

FTI-CDP1 Type 1A

SUPPORT - 1(888) 820-3690, EXT. 203

FTI-CDP1 Type 1B - Vehicle Coverage & Preparation Notes

FIRSTECH, L.L.C.
SUPPORT - 1(888) 820-3690, EXT. 203

Make	Model	Year	Install	CAN	Lights	IGN	Hood	I/O Changes
DL-CH8					Park / Auto			Green White / Blue
RAM	1500/2500/3500 TIP (D)	2013-17	Type 1	OBD-II	B	BCM	BCM	

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

Firmware:

Covered vehicle uses **BLADE-AL(DL)-CH8**, confirm application, flash module, and update the controller firmware before installing.

CAN:

Type 1 vehicles use CAN connections in harness at OBD-II, the included CAN extension is not required for this install type.

Lighting:

Type B parking lights use the 10-pin connector, please ensure that the unused 6-pin connector is properly secured for safety.

Ignition:

Common ignition provisions are listed in the BLADE diagram, ignition is also available at the vehicle BCM (connector C5/E, **pink/white**, pin #27).

Hood:

Hood status wire is available at the vehicle BCM, connector C1, pin #11 (**violet/blue**).

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"/>	(-)Door Trigger In (Default)
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

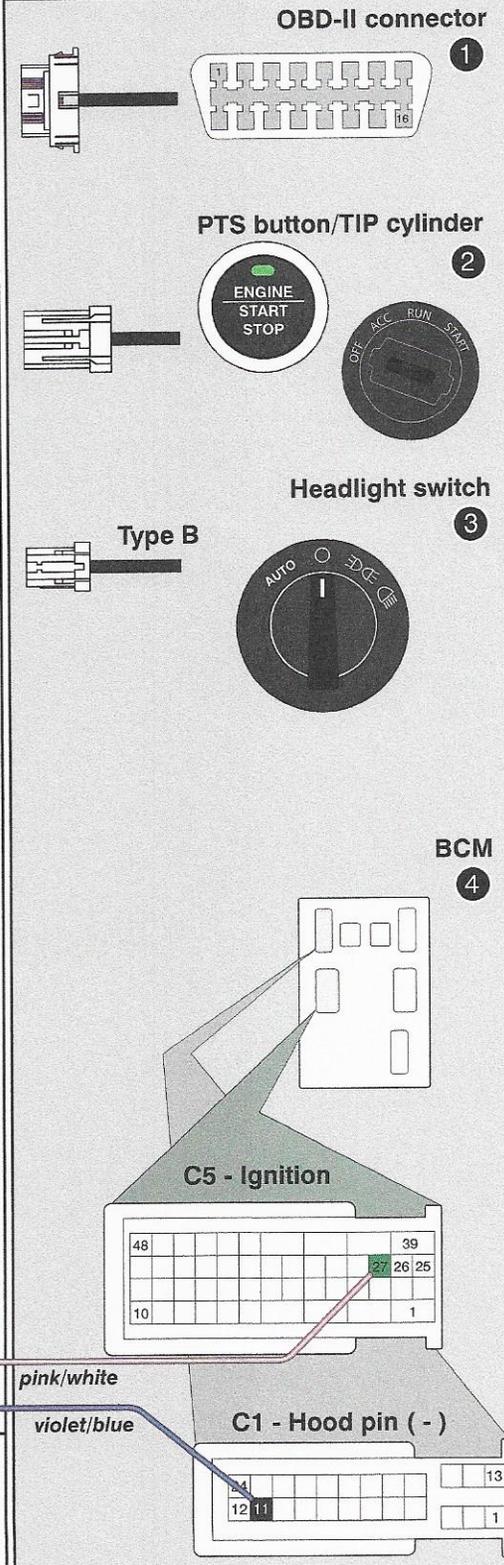
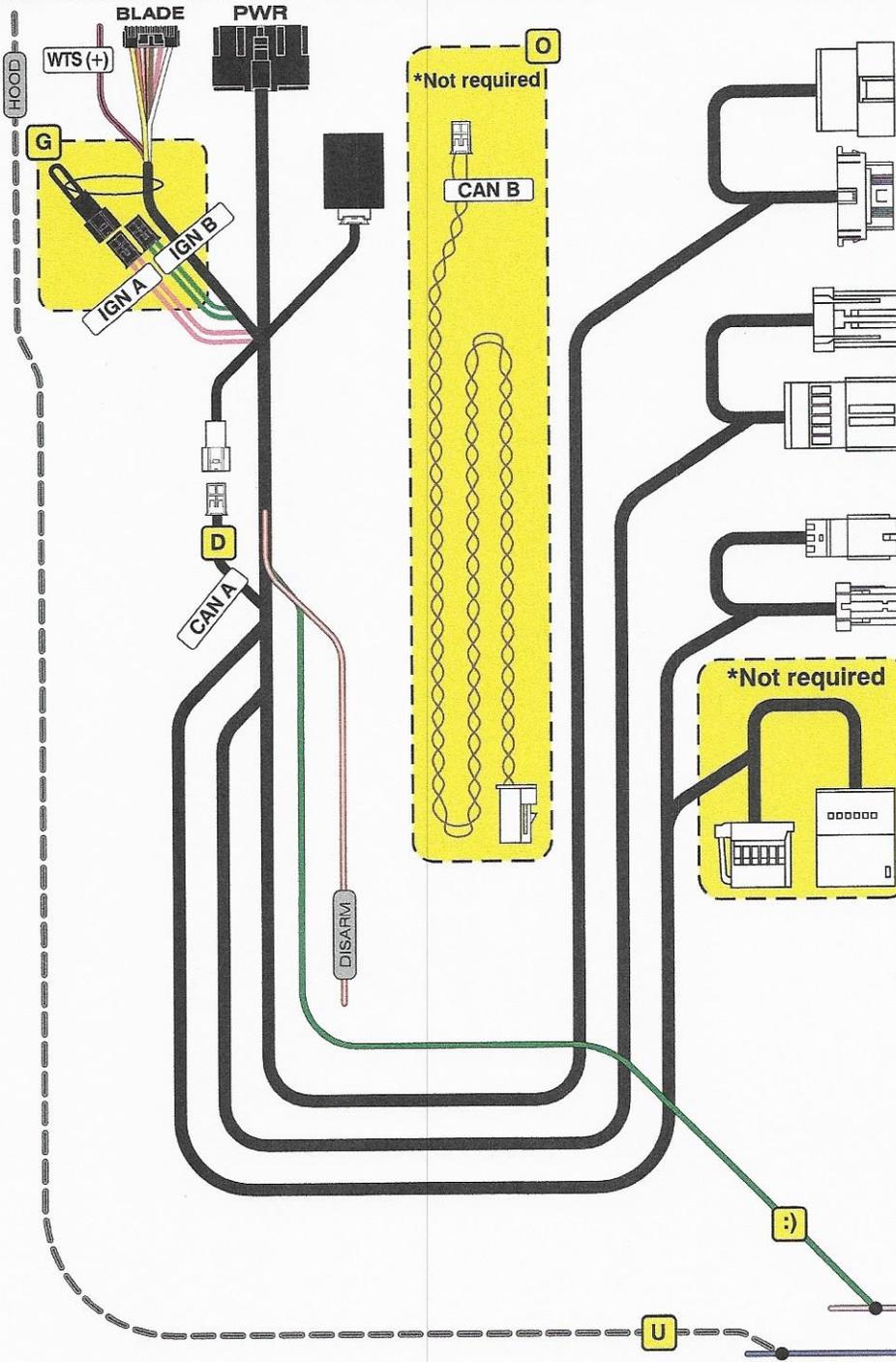
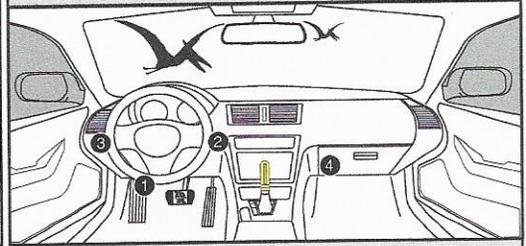
CM900AS/900S Jumper

START
ACC
IGN1

FTI-CDP1 Type 1B - Installation Notes & Wiring Diagram

- D** Type 1 CAN connection uses harness provision to source CAN data from OBD-II connector
- O** Type 2 CAN extension cable is not used in the covered vehicle. Please ensure that all unused connections are properly secured for safety
- U** Vehicle hood pin status (-), connection located at BCM connector C1 (pin #13, **violet/blue**)
- G** Ignition source jumper, connect to pink **IGN A** leads for all covered vehicle. Secure unused green ignition jumper to ensure safety
- :-)** Ignition connection varies by vehicle, component locator illustrates common connection to BCM connector C5 (pin #27, **pink/white**), see notes on coverage page for location specifics and exceptions

FIRSTECH, L.L.C.



Module Programming Procedure CH7/8

- 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 - Remove valet key and battery from OEM key fob
- Step 4 - Activate IGN, press PTS button (2x) using tip of OEM key fob
- Step 5 - When LED turns red, press button again to deactivate IGN
- Step 6 - Activate IGN again, LED should blink rapid blue, deactivate IGN
- Step 7 - Disconnect controller and complete extended key programming
- Step 8 - Reconnect to vehicle and activate IGN, LED should go solid blue
- Step 9 - 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 PTS signal, check button connection
 - 4x - No immobilizer data, check wiring
 - 4x - No immobilizer, confirm only one key in vehicle
 - 5x - No Ignition, check wiring
 - 6x - VIN error, check CAN wiring, confirm vehicle application
 - 7x - PTS signal error, check button connection
 - 8x - No PTS signal, check button connection

FTI-CDP1 Type 1B

SUPPORT - 1(888) 820-3690, EXT. 203

FTI-CDP1 Type 1C - Vehicle Coverage & Preparation Notes

FIRSTECH, L.L.C.
SUPPORT - 1 (888) 820-3690, EXT. 203

Make	Model	Year	Install	CAN	Lights	IGN	Hood	I/O Changes
DL-CH7					Park / Auto			Green White/Blue
Jeep	Grand Cherokee PTS	2014-17	Type 1	OBD-II	B	BCM	BCM	
Jeep	Grand Cherokee PTS (D)	2014-17	Type 1	OBD-II	B	BCM	BCM	
RAM	1500/2500/3500 PTS	2013-17	Type 1	OBD-II	B	BCM	BCM	
RAM	1500/2500/3500 PTS (D)	2013-17	Type 1	OBD-II	B	BCM	BCM	
DL-CH8								
RAM	1500/2500/3500 TIP	2013-17	Type 1	OBD-II	B	BCM	BCM	

Notes:

Firmware:

Covered vehicles use **BLADE-AL(DL)-CH7** or **BLADE-AL(DL)-CH8**, confirm application, flash module, and update the controller firmware before installing.

CAN:

Type 1 vehicles use CAN connections in harness at OBD-II, the included CAN extension is not required for this install type.

Lighting:

Type B parking lights use the 10-pin connector, please ensure that the unused 6-pin connector is properly secured for safety.

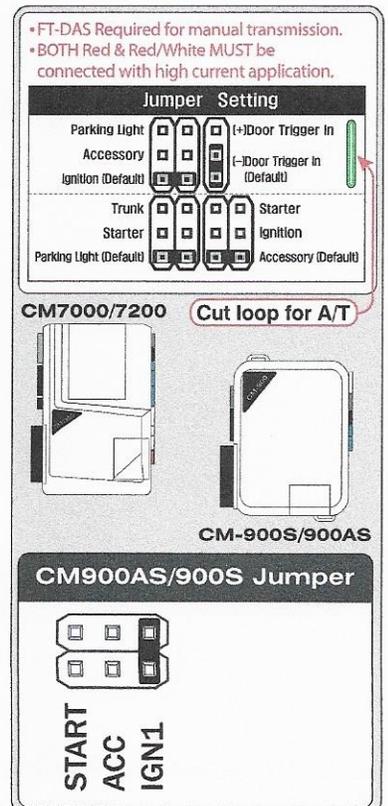
Ignition:

Common ignition provisions are listed in the BLADE diagram, ignition is also available at the vehicle BCM (connector C5/E, **pink/white**, pin #27),

Hood:

Hood status wire is available at the vehicle BCM, connector C1, pin #11 (**violet/blue**).

Okay, now get to work...



FTI-CDP1 Type 1C - Vehicle Coverage & Preparation Notes

FIRSTECH, L.L.C.
SUPPORT - 1(888) 820-3690, EXT. 203

Make	Model	Year	Install	CAN	Lights	IGN	Hood	I/O Changes
DL-CH7					Park / Auto			Green White/Blue
Jeep	Grand Cherokee PTS	2014-17	Type 1	OBD-II	B	BCM	BCM	
Jeep	Grand Cherokee PTS (D)	2014-17	Type 1	OBD-II	B	BCM	BCM	
RAM	1500/2500/3500 PTS	2013-17	Type 1	OBD-II	B	BCM	BCM	
RAM	1500/2500/3500 PTS (D)	2013-17	Type 1	OBD-II	B	BCM	BCM	
DL-CH8								
RAM	1500/2500/3500 TIP	2013-17	Type 1	OBD-II	B	BCM	BCM	

Notes:

Firmware:

Covered vehicles use **BLADE-AL(DL)-CH7** or **BLADE-AL(DL)-CH8**, confirm application, flash module, and update the controller firmware before installing.

CAN:

Type 1 vehicles use CAN connections in harness at OBD-II, the included CAN extension is not required for this install type.

Lighting:

Type B parking lights use the 10-pin connector, please ensure that the unused 6-pin connector is properly secured for safety.

Ignition:

Common ignition provisions are listed in the BLADE diagram, ignition is also available at the vehicle BCM (connector C5/E, **pink/white**, pin #27),

Hood:

Hood status wire is available at the vehicle BCM, connector C1, pin #11 (**violet/blue**).

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

START
ACC
IGN1



FTI-CDP1 Type 1D - Vehicle Coverage & Preparation Notes

FIRSTECH, L.L.C.
SUPPORT - 1 (888) 820-3690, EXT. 203

Make	Model	Year	Install	CAN	Lights	IGN	RAP	I/O Changes
DL-CH12					Park / Auto			Green White/Blue
Jeep	Cherokee PTS	2014-18	Type 1	OBD-II	A	E		
Jeep	Cherokee TIP	2014-18	Type 1	OBD-II	A	E		

Notes:
Firmware:
Covered vehicles use **BLADE-AL(DL)-CH12** firmware, flash module and update the controller firmware before installing.

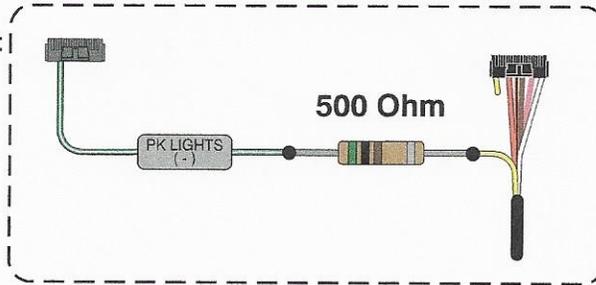
Install:
Type 1 vehicles use CAN connections in harness at OBD-II connector, the included CAN extension cable is not required .

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:
Type E ignition is available at the Trailer Pack Connector (black, 13-pin connector, pin #8, **pink**), located to the left of the steering column.

Okay, now get to work...

Lighting detail:



- 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
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

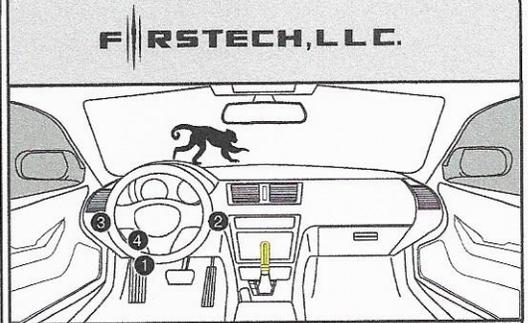
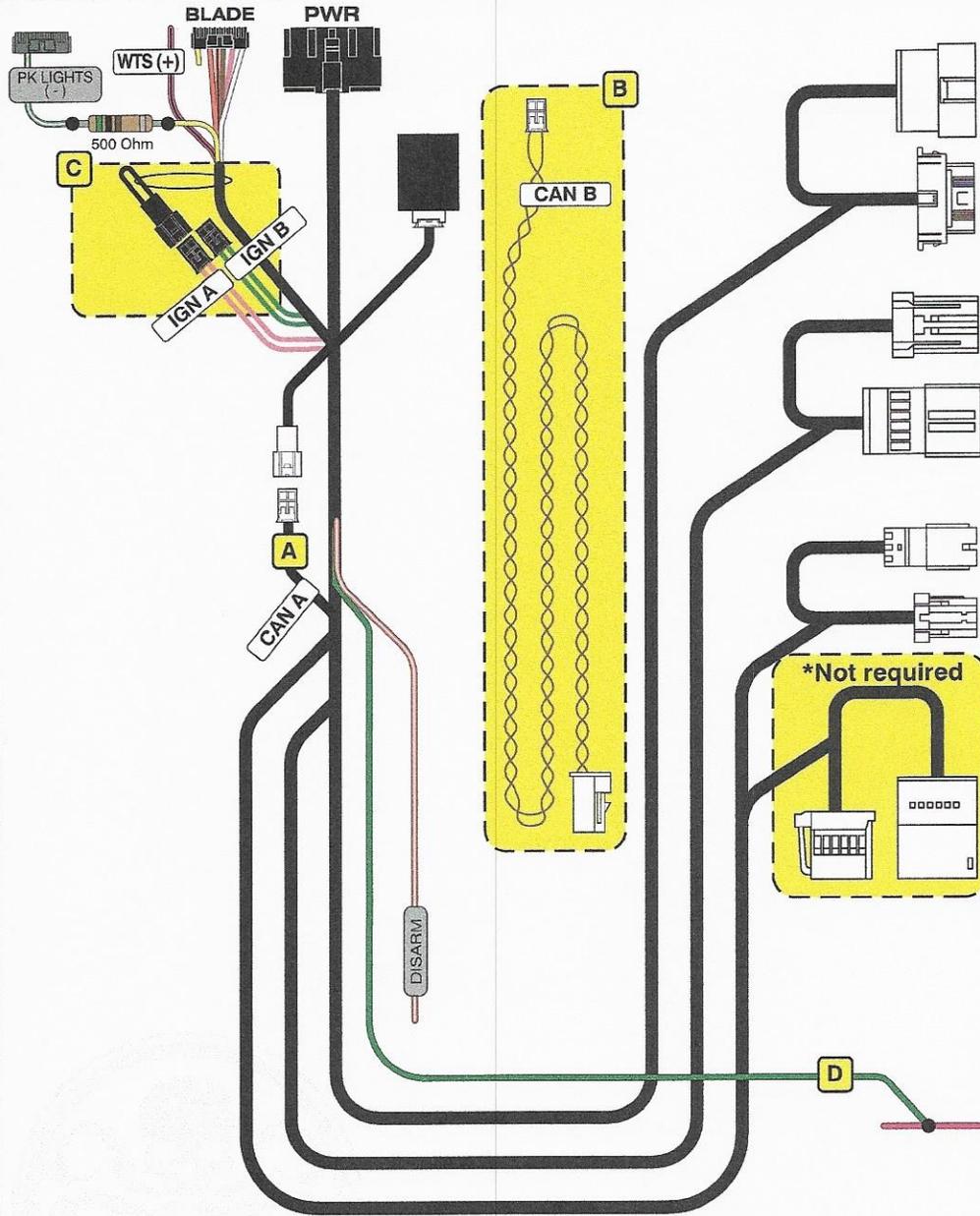
CM900AS/900S Jumper

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
START	ACC	IGN1



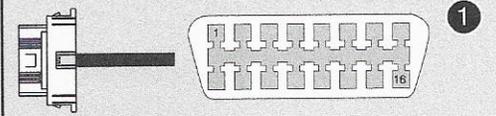
FTI-CDP1 Type 1D - Installation Notes & Wiring Diagram

- A** Type 1 CAN connection uses harness provision to source CAN data from OBD-II connector, the included CAN extension cable is not required
- B** Type 2 CAN extension is not used in this install type, CAN data is obtained through the harness provisions at the OBD-II connector
- C** Ignition source jumper, connect to pink **IGN A** leads for covered vehicles. The unused green jumper connection should be properly secured for safety
- D** Ignition connection is located at the trailer pack connector (13-pin connector, pin #8, **pink**) located to the left of the steering column

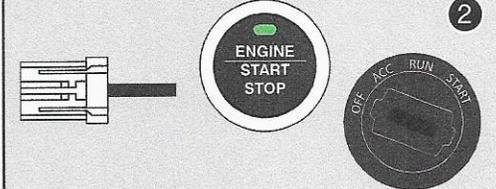


FRSTECH, L.L.C.

OBD-II connector

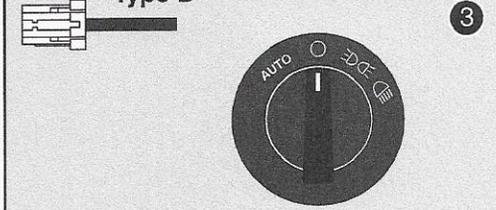


PTS button/TIP cylinder



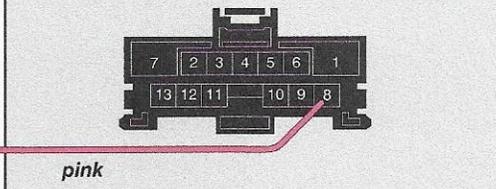
Type B

Headlight switch



Trailer Pack Connector

(left of steering column)



Module Programming Procedure CH12

- 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 solid RED, cycle IGN ON/OFF until LED blinks rapid blue
- Step 5 - If LED blinks rapid BLUE, turn IGN OFF
- Step 7 - Disconnect controller and complete extended key programming
- Step 8 - Reconnect and wake vehicle, activate IGN, LED should go solid blue
- Step 9 - 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 connection
 - 4x - No immobilizer activity, confirm CAN wiring & fob present
 - 5x - VIN error, check CAN wiring, confirm vehicle entry
 - 6x - See 4x error
 - 7x - KLON error
 - 8x - No IGNITION, check connection

FTI-CDP1 Type 1D

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FTI-CDP1 Type 1E - Vehicle Coverage & Preparation Notes

FIRSTECH, L.L.C.
SUPPORT - 1 (888) 820-3690, EXT. 203

Make	Model	Year	Install	CAN	Lights	IGN	RAP	I/O Changes
DL-CH12					Park / Auto			Green White/Blue
Chrysler	200 PTS	2015-17	Type 1	OBD-II	C	F		

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

Firmware

Covered vehicle uses **BLADE-AL(DL)-CH12**, flash module and update the controller firmware before installing.

CAN:

CAN connections are in the harness assembly at OBD-II connector, the included CAN extension cable is not required for this install.

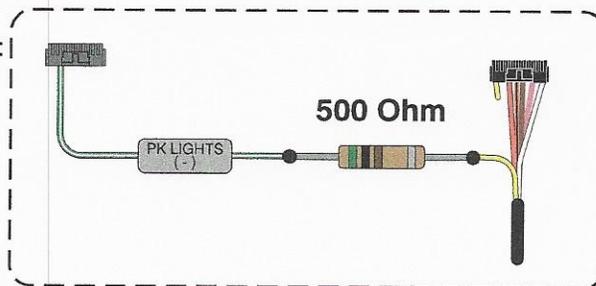
Lighting:

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.

Ignition:
Ignition is available at junction connector I301, located above the driver kick panel, in front of the fuse box, vehicle wire is located at pin #19, **pink/lt. green**, of the 59-pin connector.

Okay, now get to work...

Lighting Detail:



- 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

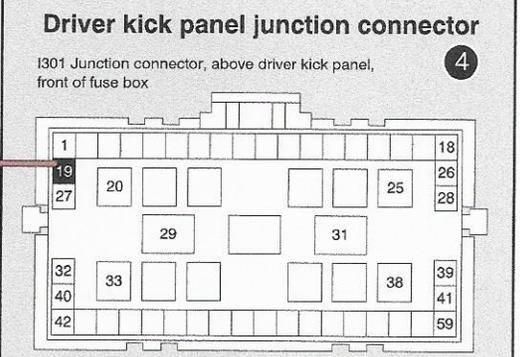
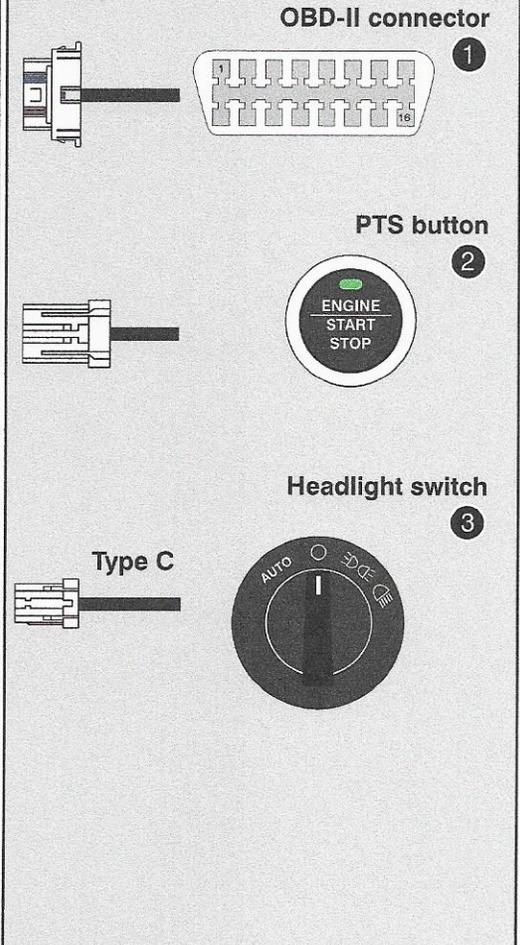
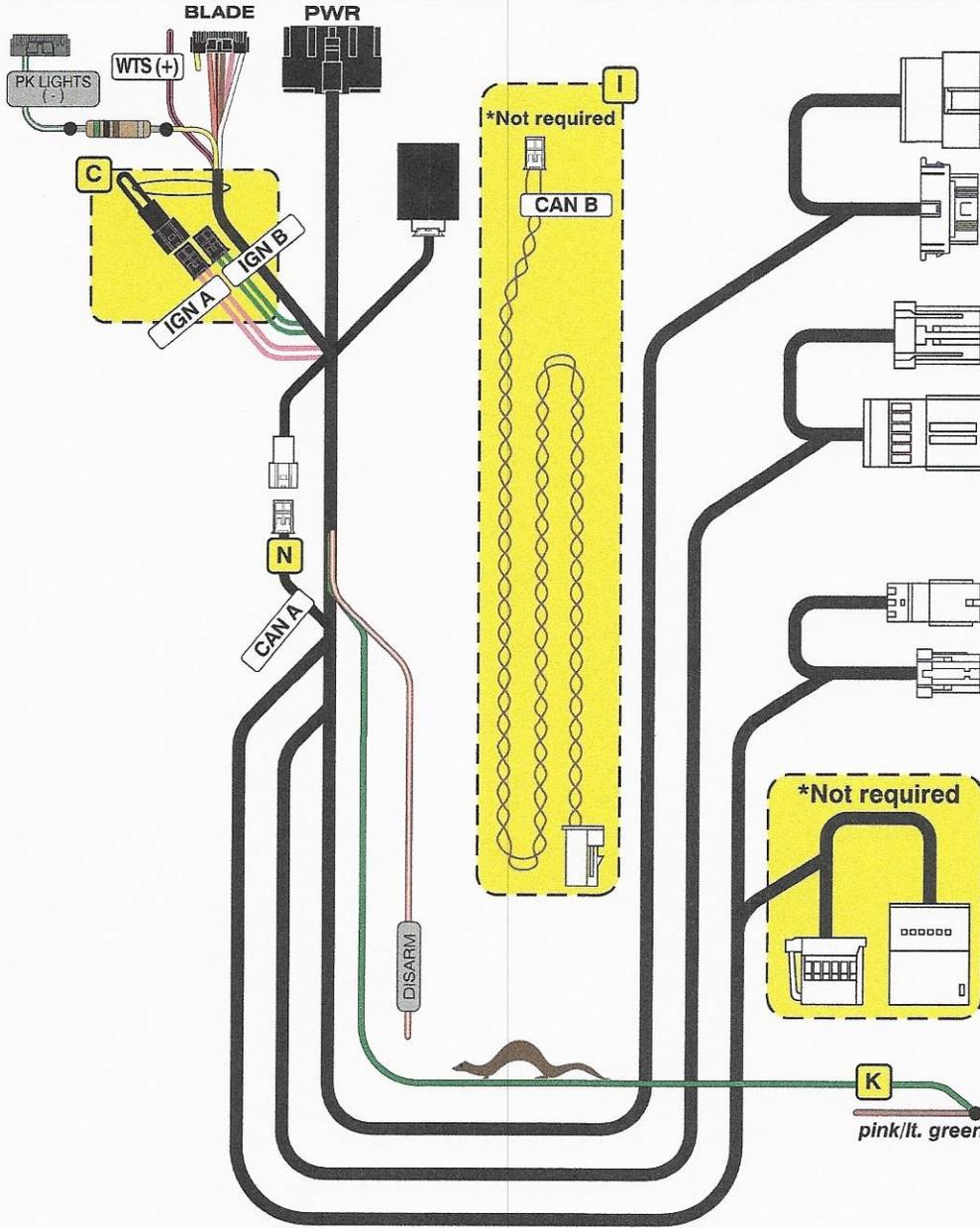
CM900AS/900S Jumper

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
START	ACC	IGN1



FTI-CDP1 Type 1E - Installation Notes & Wiring Diagram

- N** Type 1 CAN connection uses harness provision to source CAN data from OBD-II connector.
- I** The included CAN extension cable is not required for this installation type. Please ensure that all unused connections are properly secured for safety
- C** Ignition source jumper, connect to pink **IGN A** leads for covered vehicle. The unused green jumper connection should be properly secured for safety
- K** Ignition is available at junction connector I301, located above the driver kick panel, in front of the fuse box, vehicle wire is located at pin #19, **pink/lt. green**, of the 59-pin connector



Module Programming Procedure CH12

- 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 solid RED, cycle IGN ON/OFF until LED blinks rapid blue
- Step 5 - If LED blinks rapid BLUE, turn IGN OFF
- Step 7 - Disconnect controller and complete extended key programming
- Step 8 - Reconnect and wake vehicle, activate IGN, LED should go solid blue
- Step 9 - Programming complete

LED Programming Error Codes

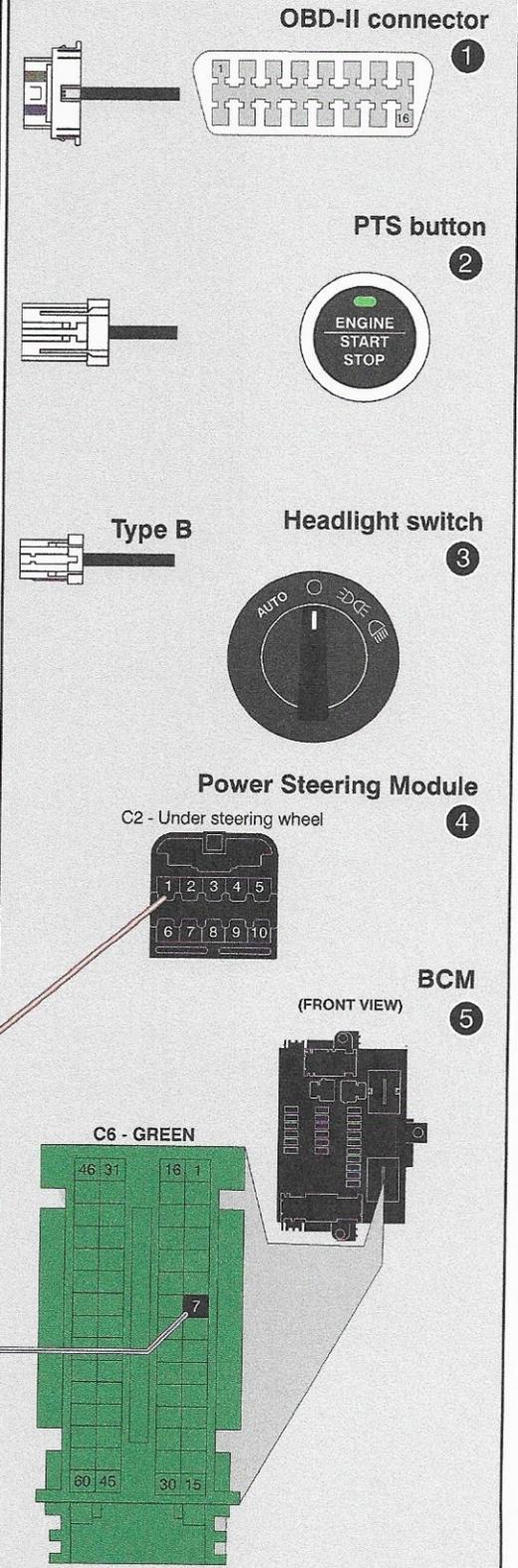
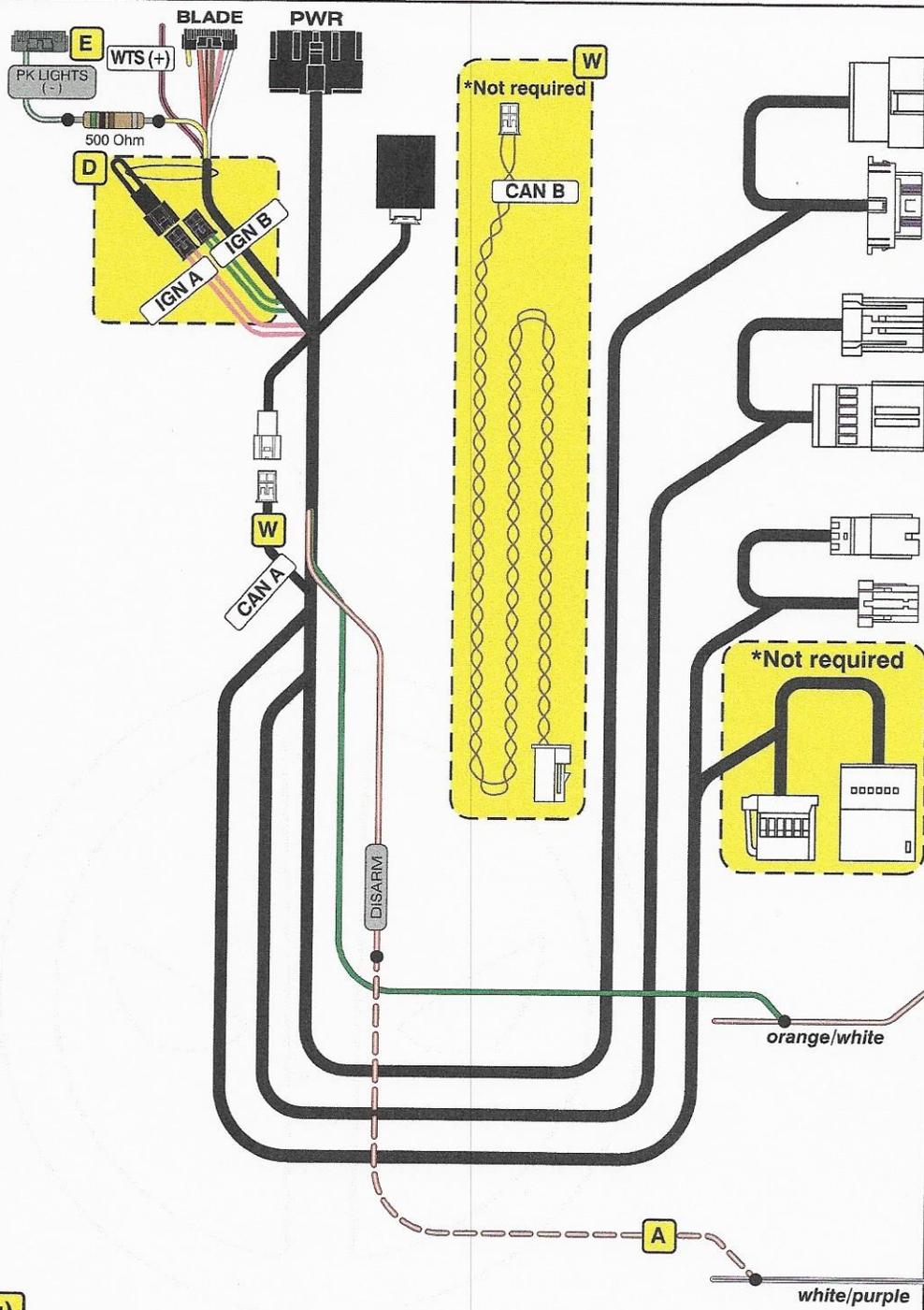
- Module LED flashing RED during programming
- 1x - CAN Error, check CAN wiring and voltages
 - 2x - Key code not learned, confirm unlock sent, check CAN
 - 3x - No IGNITION, check connection
 - 4x - No immobilizer activity, confirm CAN wiring & fob present
 - 5x - VIN error, check CAN wiring, confirm vehicle entry
 - 6x - See 4x error
 - 7x - KLON error
 - 8x - No IGNITION, check connection

FTI-CDP1 Type 1E

SUPPORT - 1(888) 820-3690, EXT. 203

FTI-CDP1 Type 1F - Installation Notes & Wiring Diagram

- W** Type 1 CAN connection uses harness provision to source CAN data from OBD-II connector, the included CAN extension cable is not required
- A** RAP (Retained Accessory Power) handling requires a direct connection from the harness (DISARM) provision to the BCM connector C6 (GREEN 60-pin, pin #7, **white/purple**)
- D** Ignition source jumper, connect to pink **IGN A** leads for covered vehicles. The unused green jumper connection should be properly secured for safety
- E** Type C parking lights 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
- :)**



Module Programming Procedure CH12

- 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 solid RED, cycle IGN ON/OFF until LED blinks rapid blue
- Step 5 - If LED blinks rapid BLUE, turn IGN OFF
- Step 7 - Disconnect controller and complete extended key programming
- Step 8 - Reconnect and wake vehicle, activate IGN, LED should go solid blue
- Step 9 - 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 connection
 - 4x - No immobilizer activity, confirm CAN wiring & fob present
 - 5x - VIN error, check CAN wiring, confirm vehicle entry
 - 6x - See 4x error
 - 7x - K-LON error
 - 8x - No IGNITION, check connection

FTI-CDP1 Type 1F

SUPPORT - 1(888) 820-3690, EXT. 203

FTI-CDP1 Type 1G - Vehicle Coverage & Preparation Notes

FRSTECH, L.L.C.
SUPPORT - 1 (888) 820-3690, EXT. 203

Make	Model	Year	Install	CAN	Lights	IGN	RAP	I/O Changes
DL-CH12					Park / Auto			Green White/Blue
Chrysler	Pacifica Hybrid PTS	2017	Type 1	OBD-II	C	H		
Chrysler	Pacifica PTS	2017	Type 1	OBD-II	C	H		

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

Firmware:

Covered vehicles use **BLADE-AL(DL)-CH12**, flash module and update the controller firmware before installing.

CAN:

Type 1 vehicles use CAN connections in harness at OBD-II connector, the included CAN extension is not required for this install type .

Lighting:

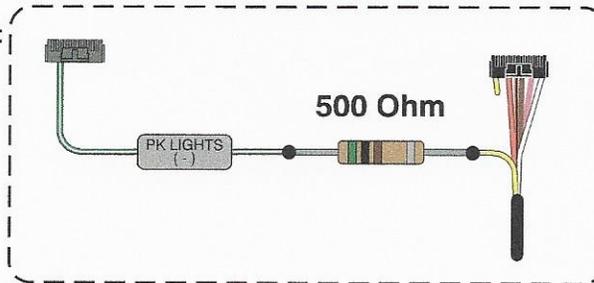
Type C parking lights use the 10-pin connector, but require additional circuit manipulation at the BLADE connector, redirecting the **yellow (MUX)** output to a 500 Ohm resistor and the controller **green/white (-)** parking light output. See lighting detail below.

Ignition:

Ignition is available at junction connector located above the driver kick panel, attached to the firewall, vehicle wire is located at pin #37, **pink/lt. green**, of the 59-pin connector.

Okay, now get to work...

Lighting Detail:



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

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

CM7000/7200 Cut loop for A/T

CM-900S/900AS

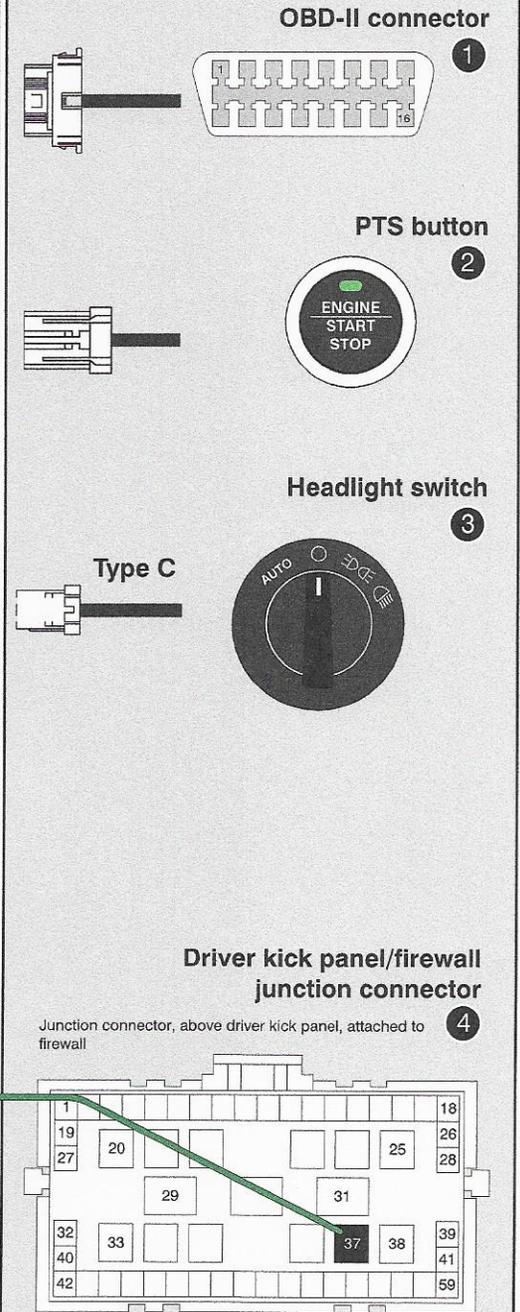
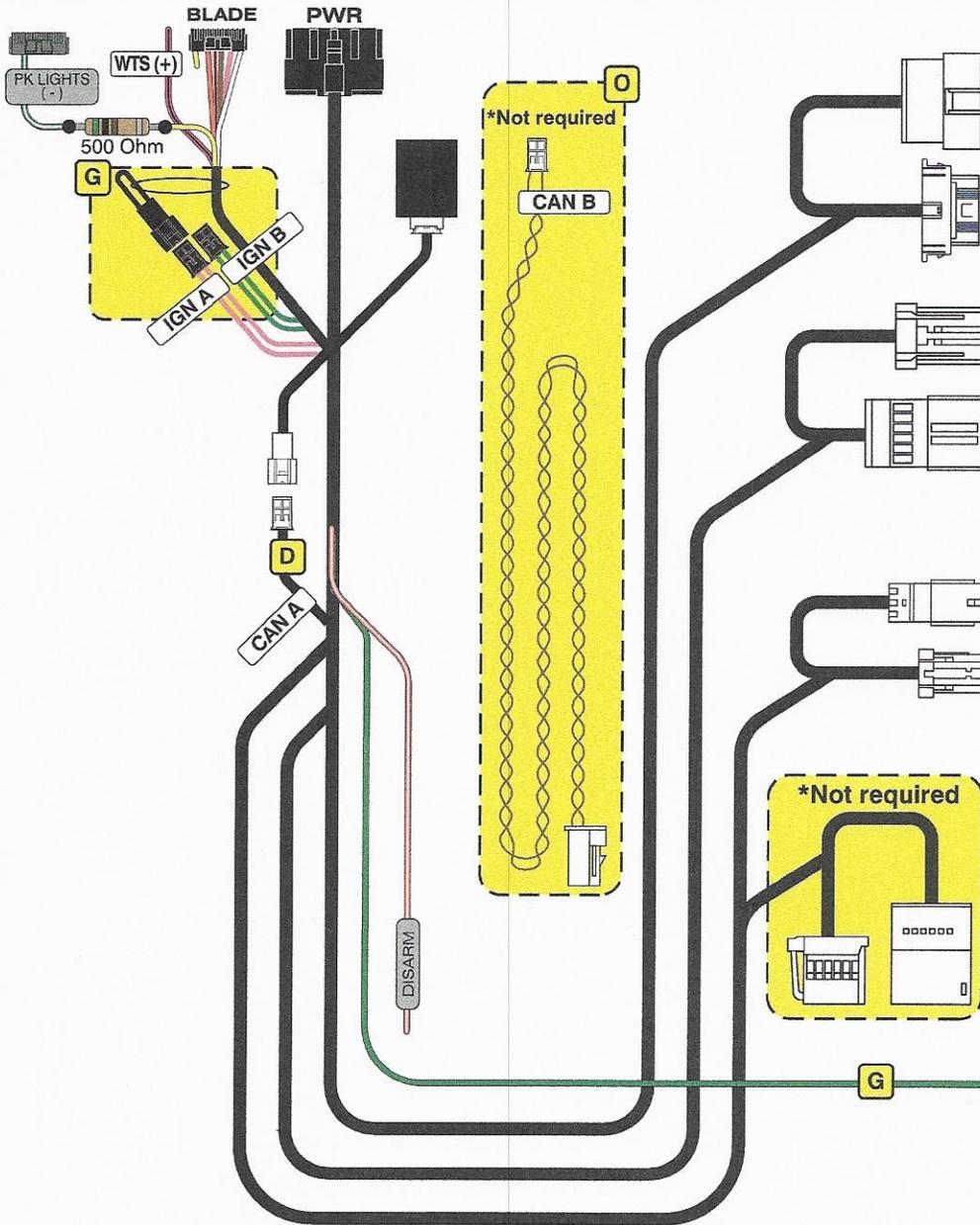
CM900AS/900S Jumper

START	ACC	IGN1
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FTI-CD1P Type 1G - Installation Notes & Wiring Diagram

- D** Type 1 CAN connection uses harness provision to source CAN data from OBD-II connector
- O** Type 2 CAN extension is not used in this install type
- U** Ignition source jumper, connect to pink **IGN A** leads for covered vehicles. The unused green jumper connection should be properly secured for safety
- G** Ignition connection is located at the 59-pin junction connector (pin #39, **pink/lt, green**) located above driver kick panel, attached to firewall



Module Programming Procedure CH12

- 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 solid RED, cycle IGN ON/OFF until LED blinks rapid blue
- Step 5 - If LED blinks rapid BLUE, turn IGN OFF
- Step 7 - Disconnect controller and complete extended key programming
- Step 8 - Reconnect and wake vehicle, activate IGN, LED should go solid blue
- Step 9 - 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 connection
 - 4x - No immobilizer activity, confirm CAN wiring & fob present
 - 5x - VIN error, check CAN wiring, confirm vehicle entry
 - 6x - See 4x error
 - 7x - KLON error
 - 8x - No IGNITION, check connection

FTI-CDP1 Type 1G

SUPPORT - 1(888) 820-3690, EXT. 203

FTI-CDP1 Type 1H -Vehicle Coverage & Preparation Notes

FIRSTECH, L.L.C.
SUPPORT - 1(888) 820-3690, EXT. 203

Make	Model	Year	Install	CAN	Lights	IGN	RAP	I/O Changes
DL-CH12					Park / Auto			Green White/Blue
Fiat	500X PTS	2015-17	Type 1	OBD-II	D	G	BCM	
Jeep	Renegade PTS	2015-17	Type 1	OBD-II	D	G	BCM	

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

Firmware:

Covered vehicles use **BLADE-AL(DL)-CH12**, flash module and update the controller firmware before installing.

Install:

Type 1 vehicles use CAN connections in harness at the OBD-II connector. The included CAN extension cable is not required for this install type.

Lighting:

Type D parking lights require a controller POC be configured for **Hazard control** (POC option #30) and connected to the **it. green/red** wire, located at BCM connector C8, pin #59. The harness 6 & 10-pin connectors are not used. Please ensure that they are properly secured for safety.

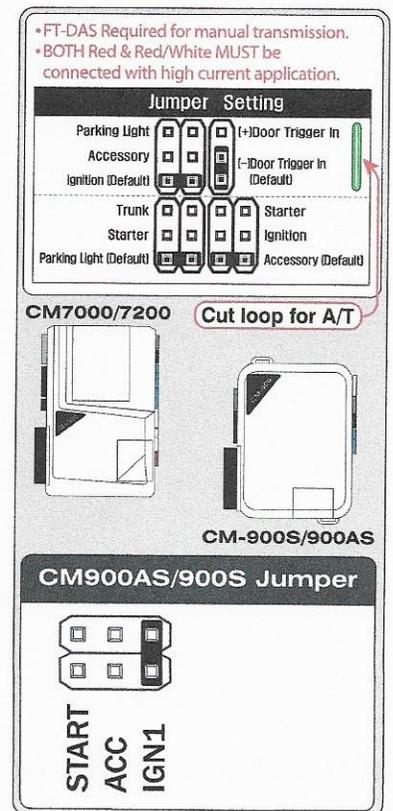
Ignition:

Ignition is available at the power steering module connector, under the steering wheel, connector C-1 (black 10-pin, pin #1, **orange/white**).

RAP:

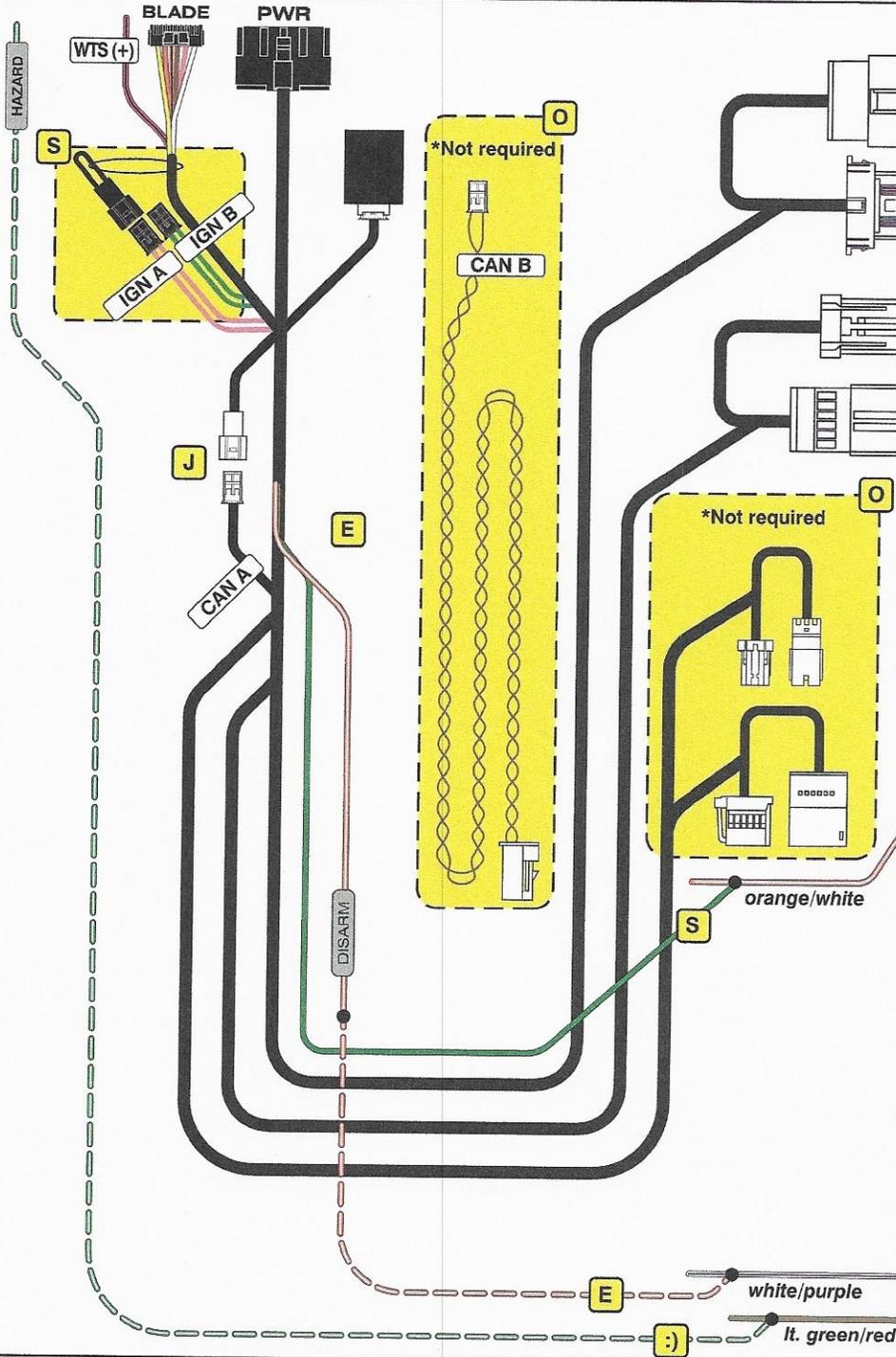
Retained accessory power is handled by harness provision (orange/white), and is connected to the driver door pin circuit (**white/purple**) at the BCM, connector C6, pin #7.

Okay, now get to work...

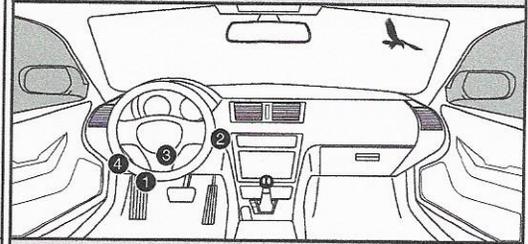


FTI-CDP1 Type 1H - Installation Notes & Wiring Diagram

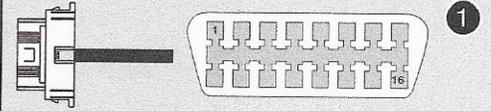
- J** Type 1 CAN connection uses harness provision to source CAN data from OBD-II connector. Please ensure that all unused connections are properly secured for safety.
- O** The included CAN extension cable is not required for this installation type, do not use. This install type does use either of the provided light switch connectors. See note below regarding hazard lights
- S** Ignition source jumper, connect to pink **IGN A** leads for covered vehicles. IGN is available at the power steering module connector, wire is **orange/white**, pin #1, 10-pin connector under steering wheel
- E** Harness includes a DISARM output that controls the RAP function for this install type, connect to driver door pin wire at BCM connector C-6 (green 60-pin connector, **white/purple**, pin #7)
- :** Type D lighting, hazard light control, requires a controller POC set to option #30 (hazard control), and connection to wire at BCM connector C-8 (gray 60-pin connector, **lt. green/red**, pin #59)



FIRSTECH, L.L.C.



OBD-II connector

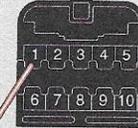


PTS button



Power Steering Module

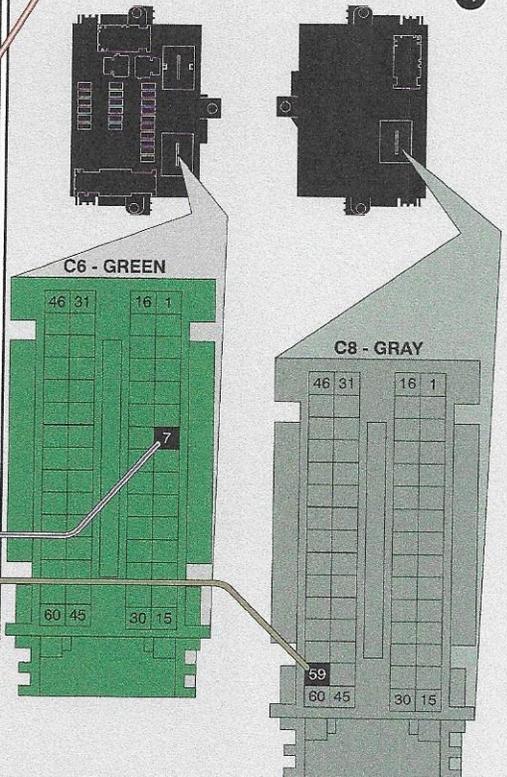
C2 - Under steering wheel



BCM

(FRONT VIEW)

(REAR VIEW)



Module Programming Procedure CH12

- 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 solid RED, cycle IGN ON/OFF until LED blinks rapid blue
- Step 5 - If LED blinks rapid BLUE, turn IGN OFF
- Step 7 - Disconnect controller and complete extended key programming
- Step 8 - Reconnect and wake vehicle, activate IGN, LED should go solid blue
- Step 9 - 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 connection
- 4x - No immobilizer activity, confirm CAN wiring & fob present
- 5x - VIN error, check CAN wiring, confirm vehicle entry
- 6x - See 4x error
- 7x - KLON error
- 8x - No IGNITION, check connection

FTI-CDP1 Type 1H

SUPPORT - 1 (888) 820-3690, EXT. 203

FTI-CDP1 Type 2A - Vehicle Coverage & Preparation Notes

Make	Model	Year	Install	CAN	Lights	IGN	Hood	I/O Changes
DL-CH7					Park / Auto			Green White/Blue
Chrysler	300 PTS	2018	Type 2	CJB/BCM	A	BCM	BCM	
Dodge	Challenger PTS	2018-19*	Type 2	CJB/BCM	A	BCM	BCM	
Dodge	Charger PTS	2018-19*	Type 2	CJB/BCM	A	BCM	BCM	
Dodge	Durango PTS	2018	Type 2	CJB/BCM	A	BCM	BCM	
Dodge	Journey PTS	2018	Type 2	CJB/BCM	A	BCM	BCM	

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

Firmware:

Covered vehicles use **BLADE-AL(DL)-CH7**, flash module and update the controller firmware before installing.

CAN:

Type 2 vehicles use the included CAN extension cable to source CAN data from the white CAN junction block (left side of the dash) or from the BCM (pin#25, CANH, **brown**, pin #26, CANL, **yellow**).

Lighting:

Type A parking lights use the 6-pin connector, secure the unused 10 pin connector for safety.

Ignition:

Common ignition provisions are listed in the BLADE diagram, ignition is also available at the vehicle BCM (connector C5/E, pin #27, **pink/white**).

*** 2019 model year vehicles must use the ignition location illustrated, for proper operation. Failure to do so will result in malfunction.**

Hood:

Hood status wire is available at the vehicle BCM, connector C1, pin #11 (**violet/blue**).

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	(+)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**

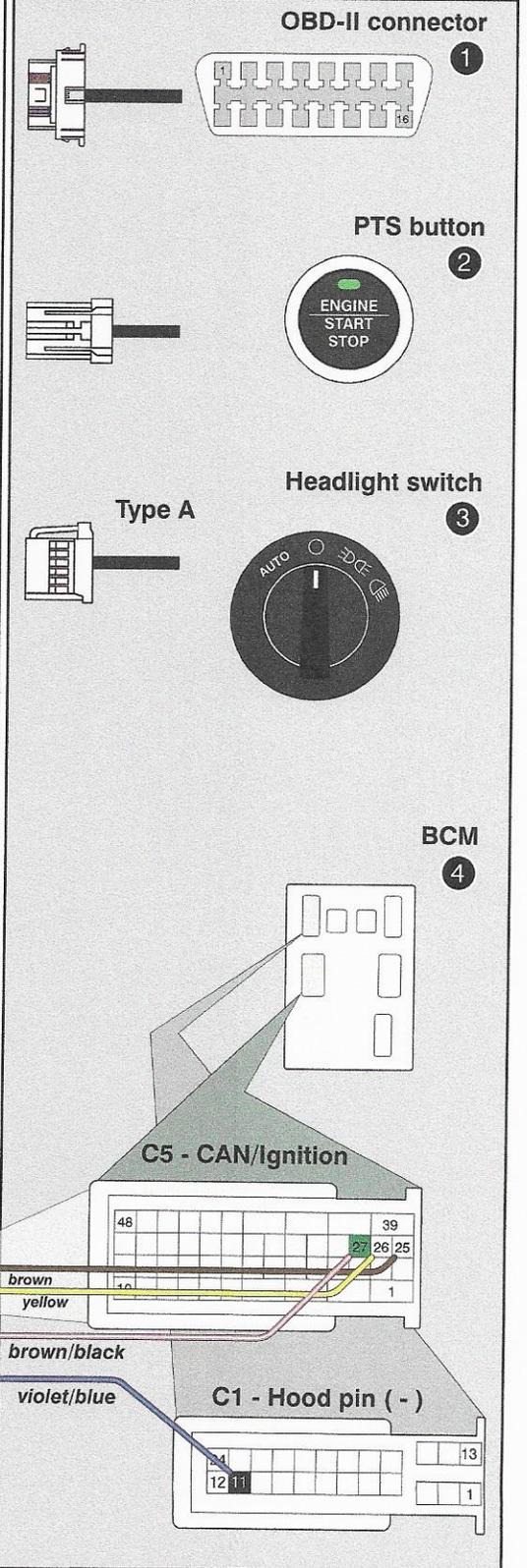
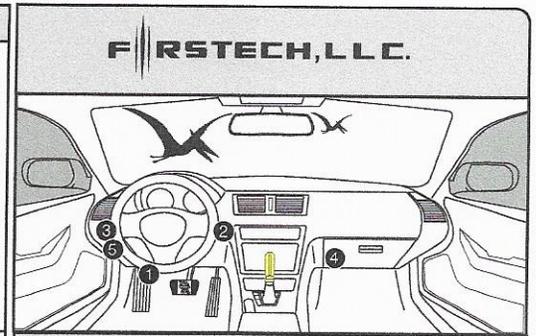
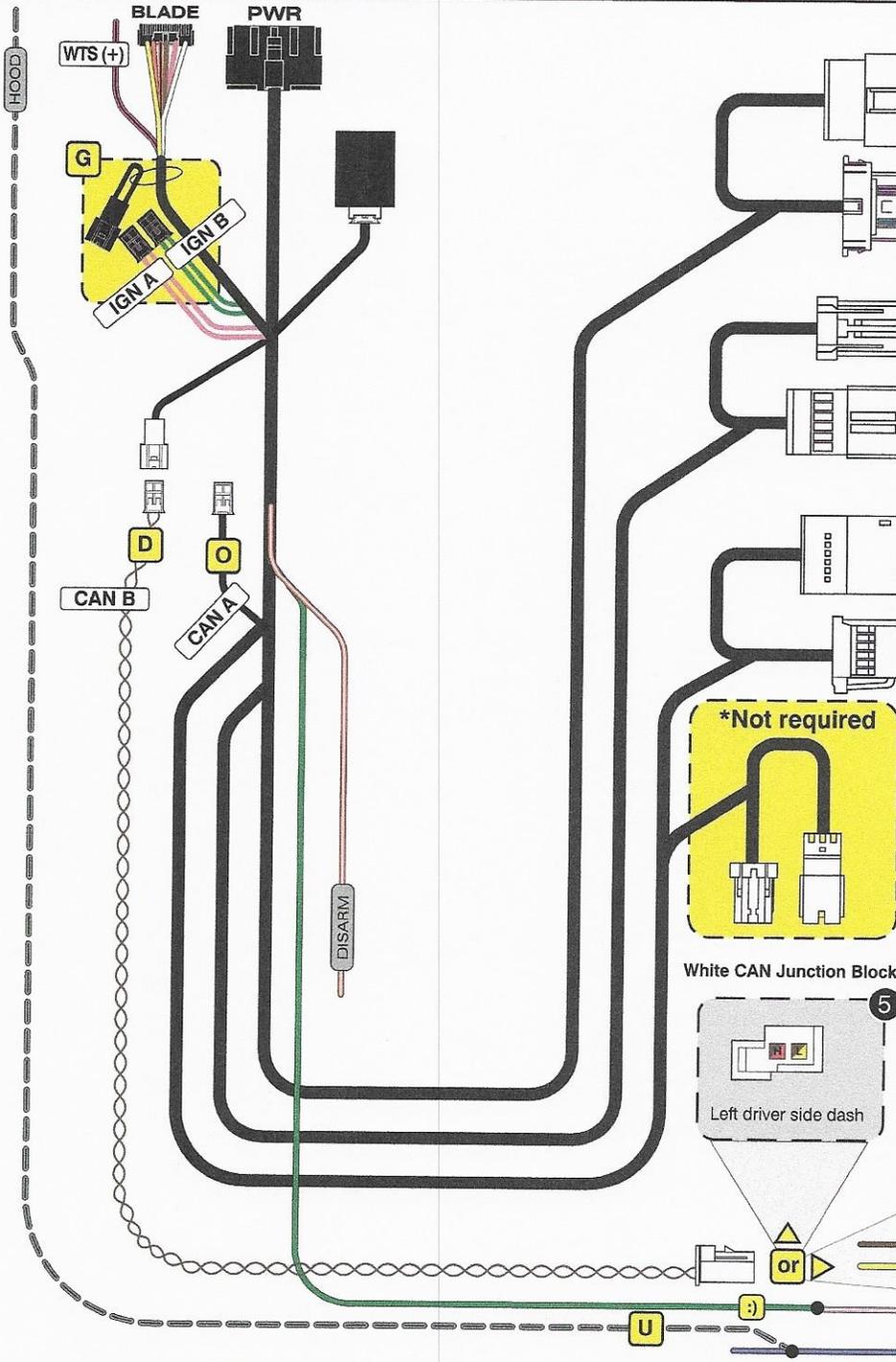
CM900AS/900S Jumper

START
ACC
IGN1



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

- D** Type 2 CAN connection uses optional CAN extension to source CAN data from the CAN junction block or from the vehicle BCM, connector C5 (pin #25, CANH, **brown**, pin #25, CANL, **yellow**)
- O** Type 1 CAN provisions are not used in the covered vehicles, doing so will result in module programming failure
- U** Vehicle hood pin status (-), connection located at BCM connector C1 (pin #13, **violet/blue**)
- G** Ignition source jumper, NO CONNECTION required for this install type. Secure unused ignition jumpers to ensure safety
- :-)** Ignition connection varies by vehicle, component locator illustrates common connection to BCM connector C5 (pin #27, **pink/white**), see notes on coverage page for location specifics and exceptions



Module Programming Procedure CH7/8

- 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 - Remove valet key and battery from OEM key fob
- Step 4 - Activate IGN, press PTS button (2x) using tip of OEM key fob
- Step 5 - When LED turns red, press button again to deactivate IGN
- Step 6 - Activate IGN again, LED should blink rapid blue, deactivate IGN
- Step 7 - Disconnect controller and complete extended key programming
- Step 8 - Reconnect to vehicle and activate IGN, LED should go solid blue
- Step 9 - 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 PTS signal, check button connection
 - 4x - No immobilizer data, check wiring
 - 4x - No immobilizer, confirm only one key in vehicle
 - 5x - No ignition, check wiring
 - 6x - VIN error, check CAN wiring, confirm vehicle application
 - 7x - PTS signal error, check button connection
 - 8x - No PTS signal, check button connection

FTI-CDP1 Type 2A

SUPPORT - 1(888) 820-3690, EXT. 203

FTI-CDP1 Type 2B - Vehicle Coverage & Preparation Notes

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SUPPORT - 1(888) 820-3690, EXT. 203

Make	Model	Year	Install	CAN	Lights	IGN	Hood	I/O Changes
DL-CH8					Park / Auto			Green White/Blue
RAM	1500/2500/3500 TIP (D)	2018	Type 2	CJB/BCM	B	BCM	BCM	

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

Firmware:

Covered vehicles uses **BLADE-AL(DL)-CH8**, confirm application, flash module, and update the controller firmware before installing.

Install:

Type 2 vehicle uses the included CAN extension cable to source CAN data from the CAN junction block (left side of the dash) or from the BCM (pin#25, CANH, **brown**, pin #26, CANL, **yellow**).

Lighting:

Type B parking lights use the 10-pin connector, secure unused 6-pin connector for safety.

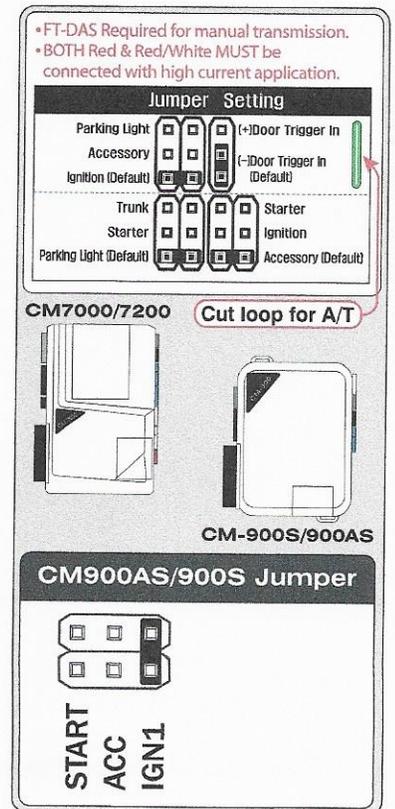
Ignition:

Common ignition provisions are listed in the BLADE diagram, ignition is also available at the vehicle BCM (connector C5/E, pin #27, **pink/white**).

Hood:

Hood status wire is available at the vehicle BCM, connector C1, pin #11 (**violet/blue**).

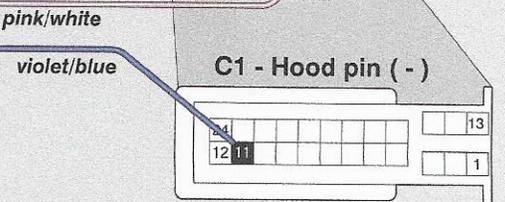
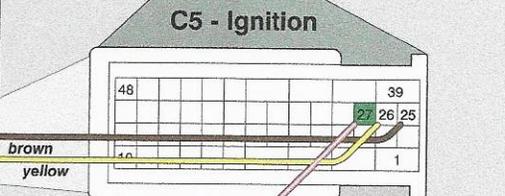
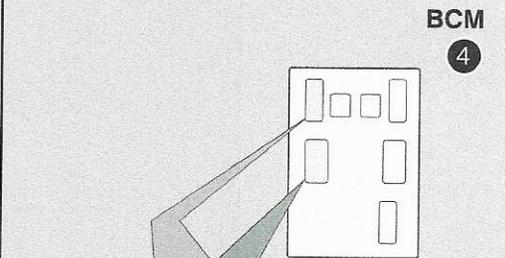
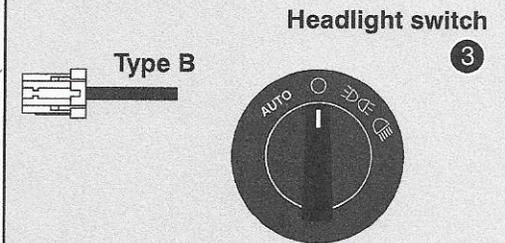
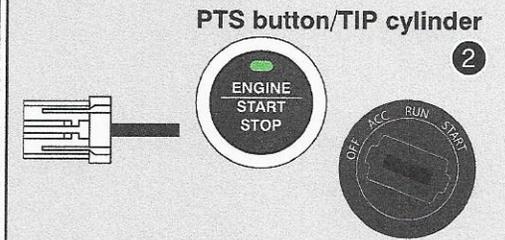
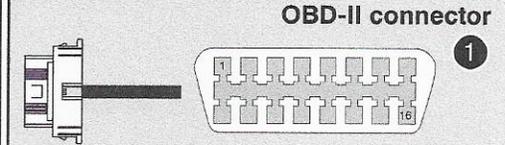
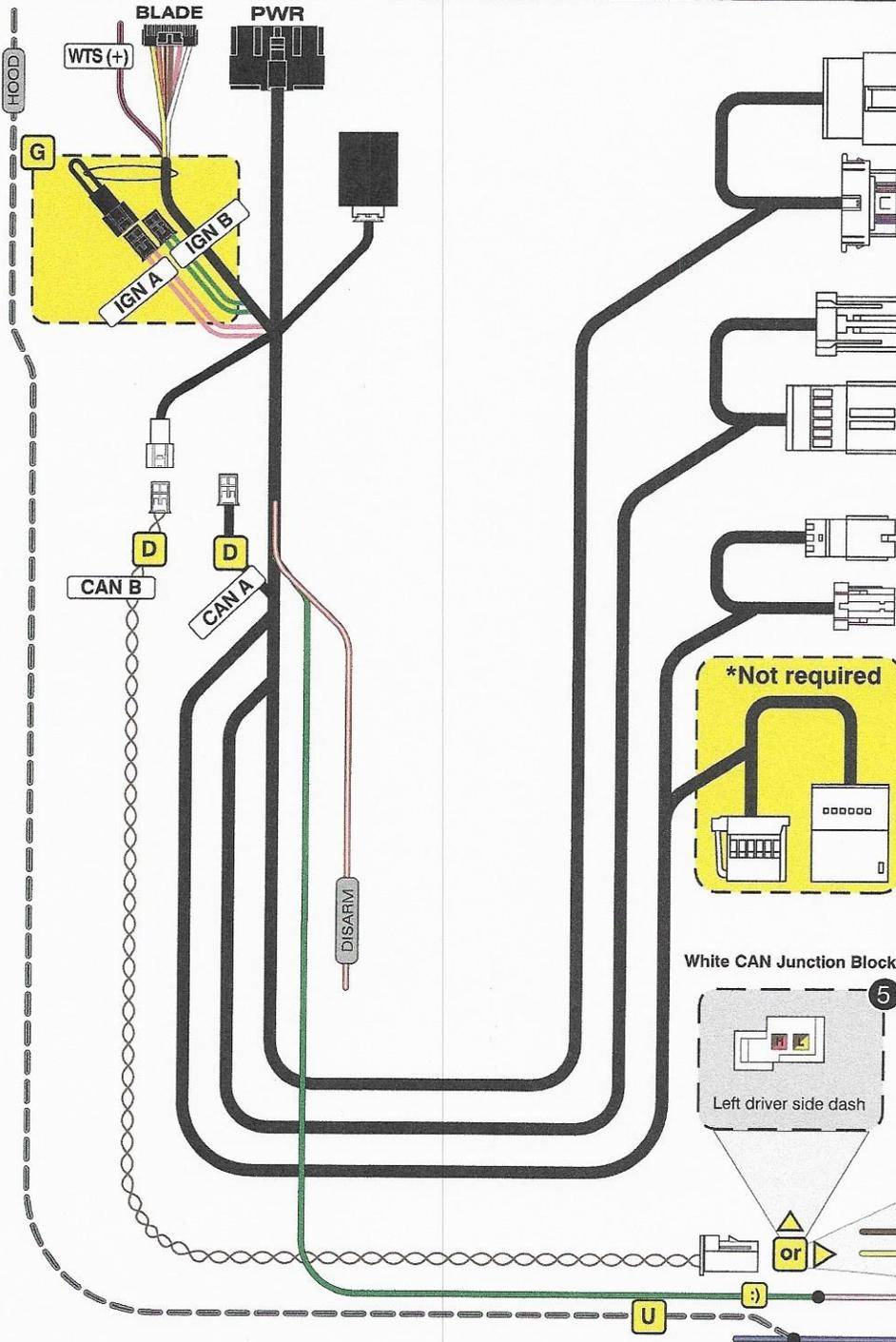
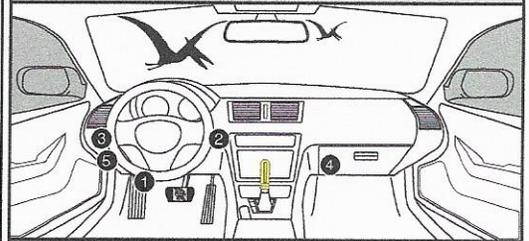
Okay, now get to work...



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

FIRSTECH, L.L.C.

- D** Type 1 CAN A connection is not used in this installation type, secure the unused CAN B connector.
- O** Type 2 CAN B extension cable is used in this installation type to source CAN data from the vehicle BCM. The unused CAN A connector should be secured for safety.
- U** Vehicle hood pin status (-), connection located at BCM connector C1 (pin #13, **violet/blue**)
- G** Ignition source jumper, connect to pink **IGN A** leads for covered vehicle. Secure unused green ignition jumpers to ensure safety
- ;)** Ignition connection varies by vehicle, component locator illustrates common connection to BCM connector C5 (pin #27, **pink/white**), see notes on coverage page for location specifics and exceptions



Module Programming Procedure CH7/8

- 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 - Remove valet key and battery from OEM key fob
- Step 4 - Activate IGN, press PTS button (2x) using tip of OEM key fob
- Step 5 - When LED turns red, press button again to deactivate IGN
- Step 6 - Activate IGN again, LED should blink rapid blue, deactivate IGN
- Step 7 - Disconnect controller and complete extended key programming
- Step 8 - Reconnect to vehicle and activate IGN, LED should go solid blue
- Step 9 - 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 PTS signal, check button connection
 - 4x - No immobilizer data, check wiring
 - 4x - No immobilizer, confirm only one key in vehicle
 - 5x - No ignition, check wiring
 - 6x - VIN error, check CAN wiring, confirm vehicle application
 - 7x - PTS signal error, check button connection
 - 8x - No PTS signal, check button connection

FTI-CDP1 Type 2B

SUPPORT - 1 (888) 820-3690, EXT. 203

FTI-CDP1 Type 2C - Vehicle Coverage & Preparation Notes

FIRSTECH, L.L.C.
SUPPORT - 1(888) 820-3690, EXT. 203

Make	Model	Year	Install	CAN	Lights	IGN	Hood	I/O Changes
DL-CH7					Park / Auto			Green White/Blue
Jeep	Grand Cherokee PTS	2018-19	Type 2	CJB/BCM	B	BCM	BCM	
Jeep	Grand Cherokee PTS (D)	2018-19	Type 2	CJB/BCM	B	BCM	BCM	
RAM	1500/2500/3500 PTS	2018	Type 2	CJB/BCM	B	BCM	BCM	
RAM	1500/2500/3500 PTS (D)	2018	Type 2	CJB/BCM	B	BCM	BCM	
RAM	1500 Classic PTS	2019*	Type 2	CJB/BCM	B	BCM	BCM	
RAM	1500 Classic PTS (D)	2019*	Type 2	CJB/BCM	B	BCM	BCM	
DL-CH8								
RAM	1500/2500/3500 TIP	2018	Type 2	CJB/BCM	B	BCM	BCM	
RAM	1500 Classic TIP	2019*	Type 2	CJB/BCM	B	BCM	BCM	
RAM	1500 Classic TIP (D)	2019*	Type 2	CJB/BCM	B	BCM	BCM	

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

Firmware:

Covered vehicles use either **BLADE-AL(DL)-CH7** or **BLADEL-AL(DL)-CH8**, confirm application, flash module, and update the controller firmware before installing.

Install:

Type 2 vehicles use the included CAN extension cable to source CAN data from the CAN junction block (left side of the dash) or from the BCM (pin#25, CANH, **brown**, pin #26, CANL, **yellow**).

Lighting:

Type B parking lights use the 10-pin connector, secure unused 6-pin connector for safety.

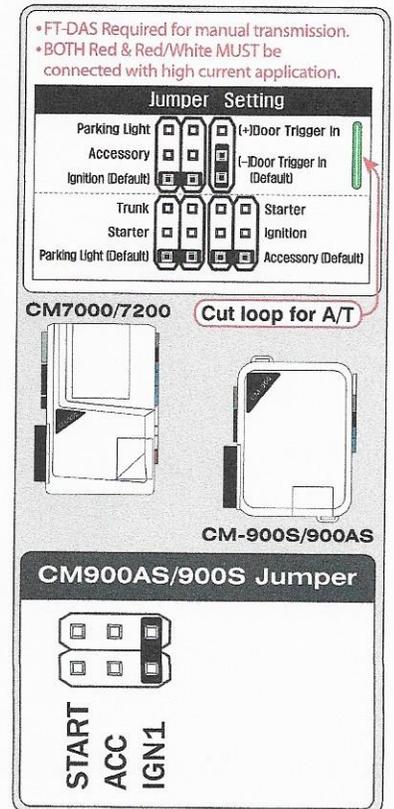
Ignition:

Common ignition provisions are listed in the BLADE diagram, ignition is also available at the vehicle BCM (connector C5/E, pin #27, **pink/white**). * 2019 model year vehicles must use the ignition location illustrated, for proper operation. Failure to make this specific connection will result in malfunction.

Hood:

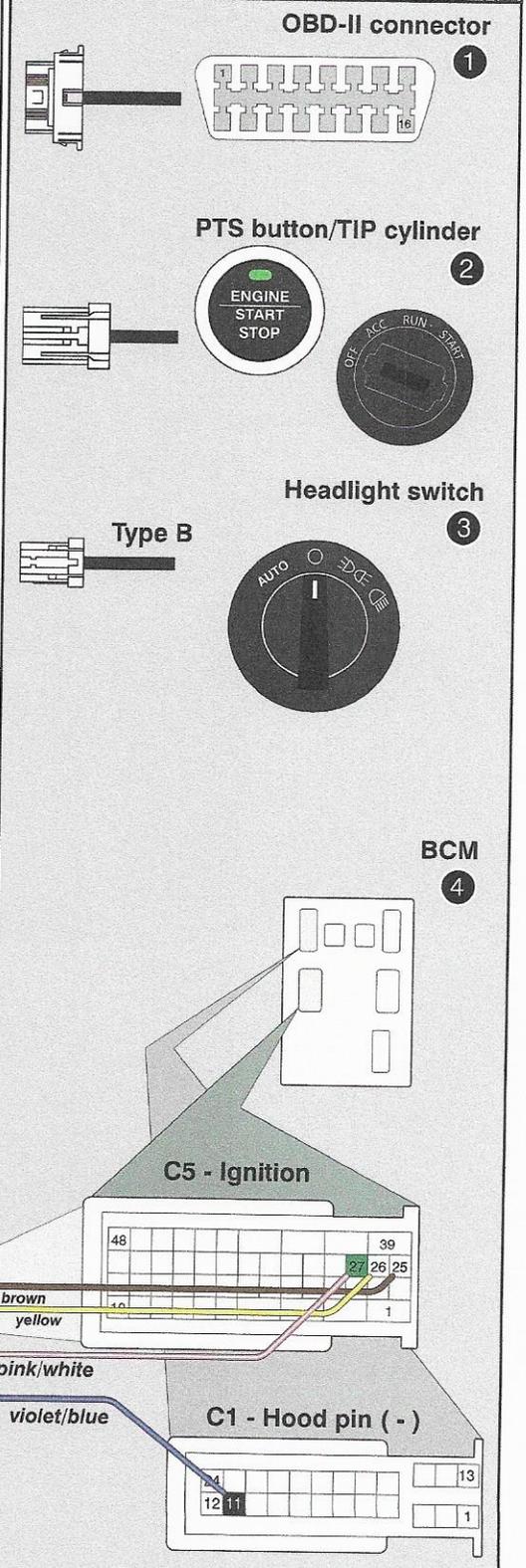
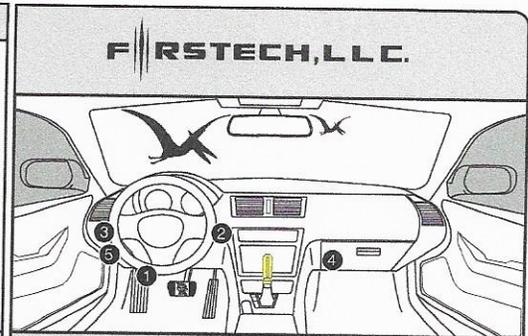
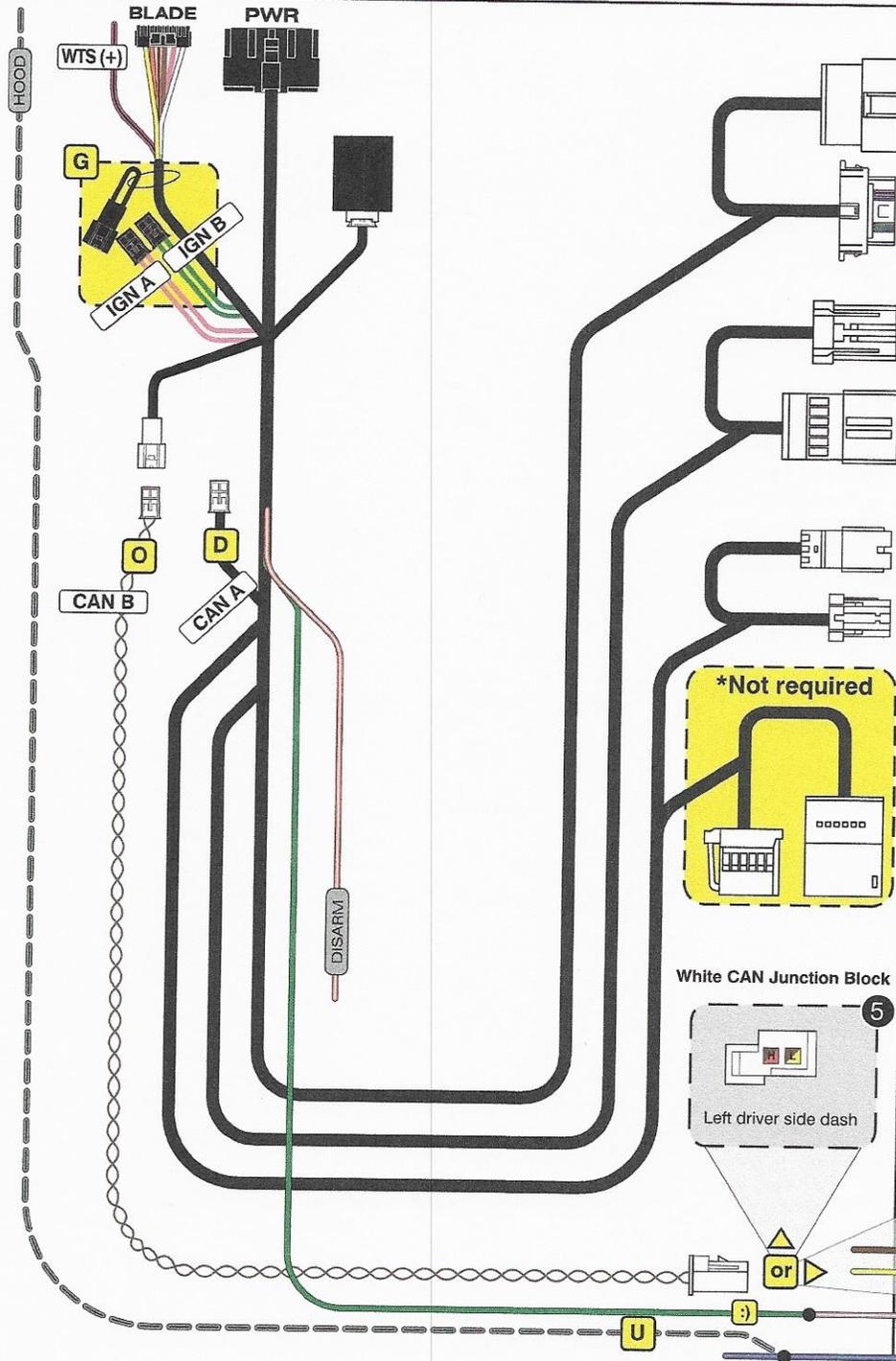
Hood status wire is available at the vehicle BCM, connector C1, pin #11 (**violet/blue**).

Okay, now get to work...



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

- D** Type 1 CAN A connection that sources CAN data from OBD-II connector is not used in this install type, Secure the CAN A connector for safety.
- O** Type 2 CAN B extension cable is used in this install type, to make the connection to the vehicle CJB (CAN junction block). Do not make any other CAN connection.
- U** Vehicle hood pin status (-), connection located at BCM connector C1 (pin #13, violet/blue)
- G** Ignition source jumper, NO CONNECTION required for this install type. Secure unused ignition jumpers to ensure safety
- :-)** Ignition connection varies by vehicle, component locator illustrates common connection to BCM connector C5 (pin #27, pink/white), see notes on coverage page for location specifics and exceptions



Module Programming Procedure CH7/8

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 - Remove valet key and battery from OEM key fob
 Step 4 - Activate IGN, press PTS button (2x) using tip of OEM key fob
 Step 5 - When LED turns red, press button again to deactivate IGN
 Step 6 - Activate IGN again, LED should blink rapid blue, deactivate IGN
 Step 7 - Disconnect controller and complete extended key programming
 Step 8 - Reconnect to vehicle and activate IGN, LED should go solid blue
 Step 9 - 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 PTS signal, check button connection
- 4x - No immobilizer data, check wiring
- 4x - No immobilizer, confirm only one key in vehicle
- 5x - No ignition, check wiring
- 6x - VIN error, check CAN wiring, confirm vehicle application
- 7x - PTS signal error, check button connection
- 8x - No PTS signal, check button connection

FTI-CDP1 Type 2C
 SUPPORT - 1 (888) 820-3690, EXT. 203

FTI-CDP1 Type 2D - Vehicle Coverage & Preparation notes

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SUPPORT - 1(888) 820-3690, EXT. 203

Make	Model	Year	Install	CAN	Lights	IGN	Hood	I/O Changes
DL-CH13					Park / Auto			Green White/Blue
Dodge	Charger PTS	2019	Type 2	CJB/BCM	C	BCM		
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 CAN junction block (CJB, driver side dash) or the BCM (C5, CANH pin #25, CANL pin #26)

Lighting:

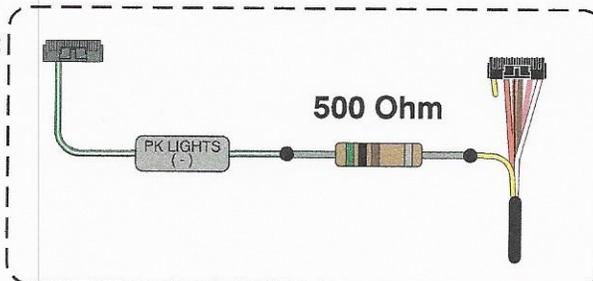
Type C parking lights use the 10-pin connector, but require additional circuit manipulation at the BLADE connector, redirecting the **yellow** (MUX) output to a 500 Ohm resistor and the controller **green/white** (-) parking light output. See lighting detail below.

Ignition:

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

Okay, now get to work...

Lighting Detail:



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

CM7000/7200 Cut loop for A/T

CM-900S/900AS

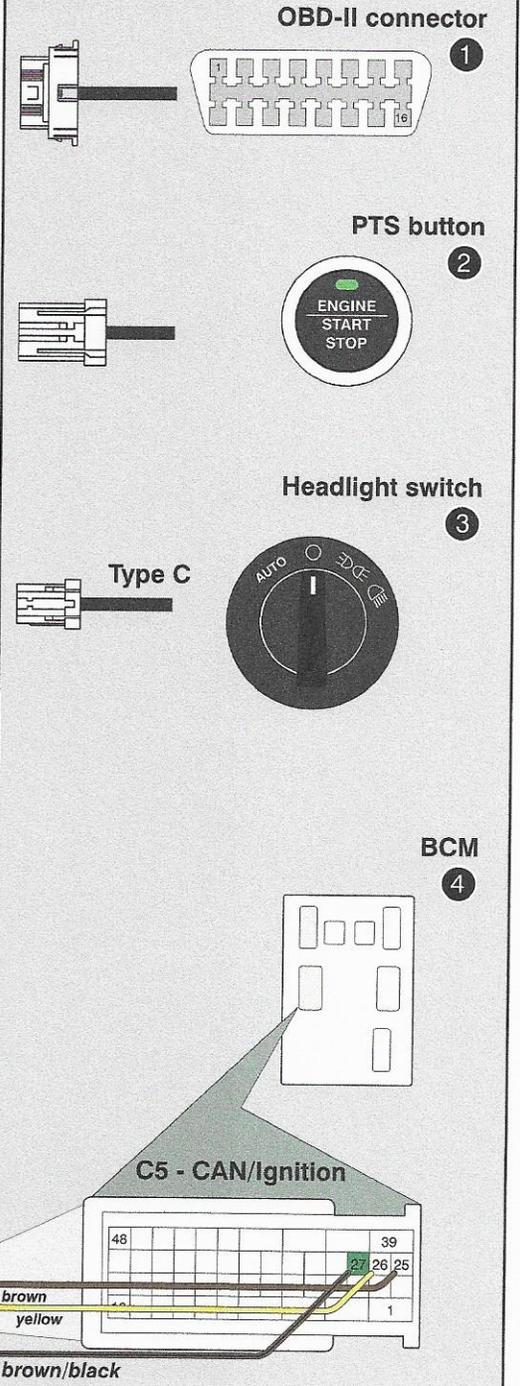
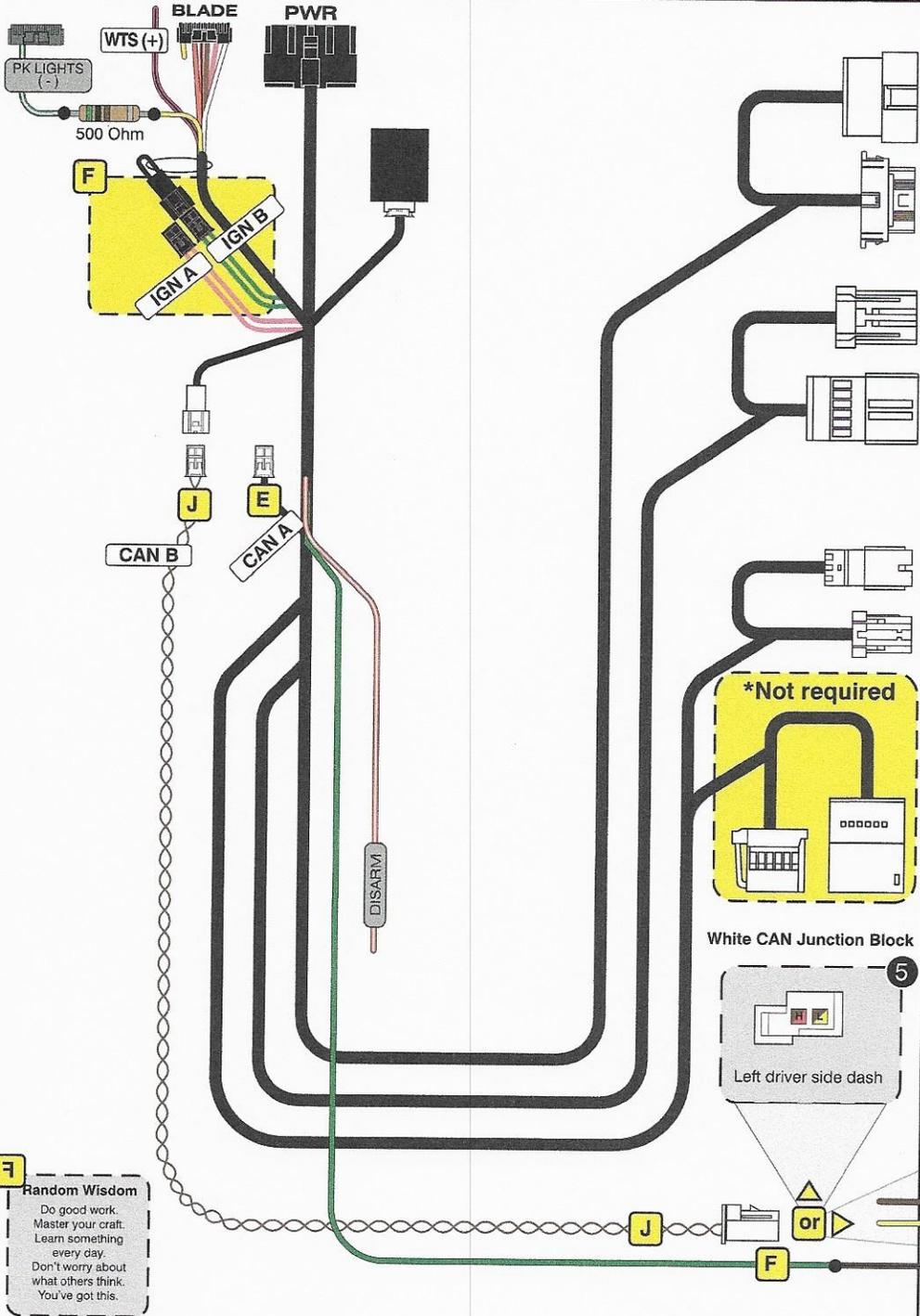
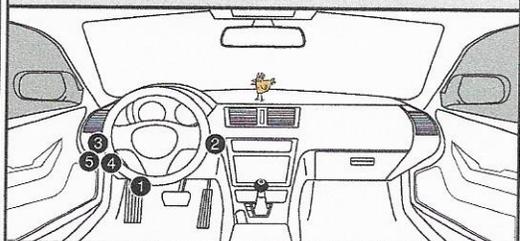
CM900AS/900S Jumper

START	<input type="checkbox"/>	<input type="checkbox"/>
ACC	<input type="checkbox"/>	<input type="checkbox"/>
IGN1	<input type="checkbox"/>	<input type="checkbox"/>



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
- Don't waste time reading things first as written in reverse, there are no birds on a tree, you're doing it wrong, so get back to work before the boss sees what you're doing.



Random Wisdom
 Do good work.
 Master your craft.
 Learn something every day.
 Don't worry about what others think.
 You've got this.

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

SUPPORT - 1(888) 820-3690, EXT. 203

FTI-CDP1 Type 2E - Vehicle Coverage & Preparation Notes

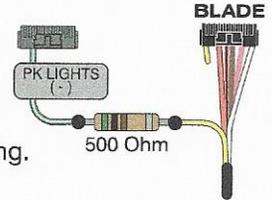
FIRSTECH, L.L.C.
SUPPORT - 1(888) 820-3690, EXT. 203

Make	Model	Year	Install	CAN	Lights	IGN	RAP	I/O Changes
DL-CH12					Park / Auto			Green White/Blue
Chrysler	Pacifica PTS	2018	Type 2	FJC	C	H		

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

Firmware:

Covered vehicles use **BLADE-AL(DL)-CH12**, flash module and update the controller firmware before installing.



CAN:

Type 2 vehicles use CAN extension cable to make connections at the firewall junction connector, located above the driver kick panel and attached to firewall (CANH, pin #57, **tan/white**, CANL, pin #58, **yellow**).

Lighting:

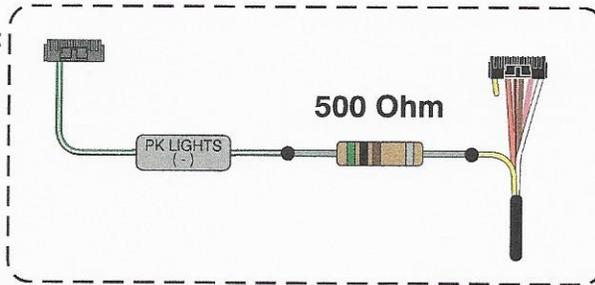
Type C parking lights use the 10-pin connector, but require additional circuit manipulation at the BLADE connector, redirecting the **yellow (MUX)** output to a 500 Ohm resistor and the controller **green/white (-)** parking light output. See lighting detail below.

Ignition:

Ignition is available at junction connector located above the driver kick panel, attached to the firewall, vehicle wire is located at pin #37, **pink/lt. green**, of the 59-pin connector

Okay, now get to work...

Lighting Detail:



- 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
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

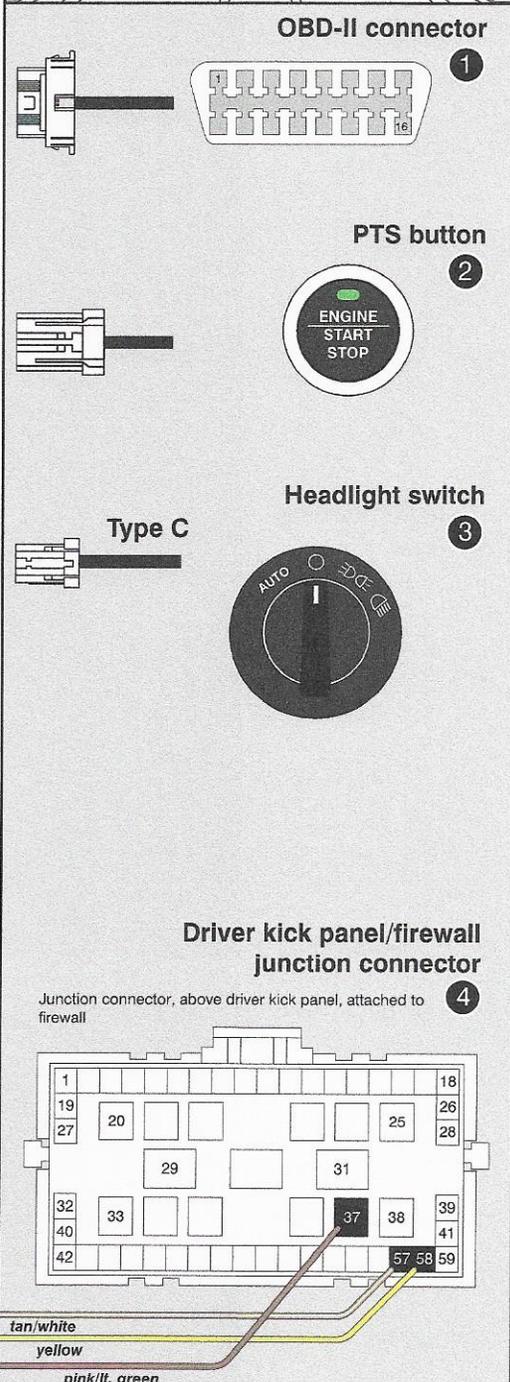
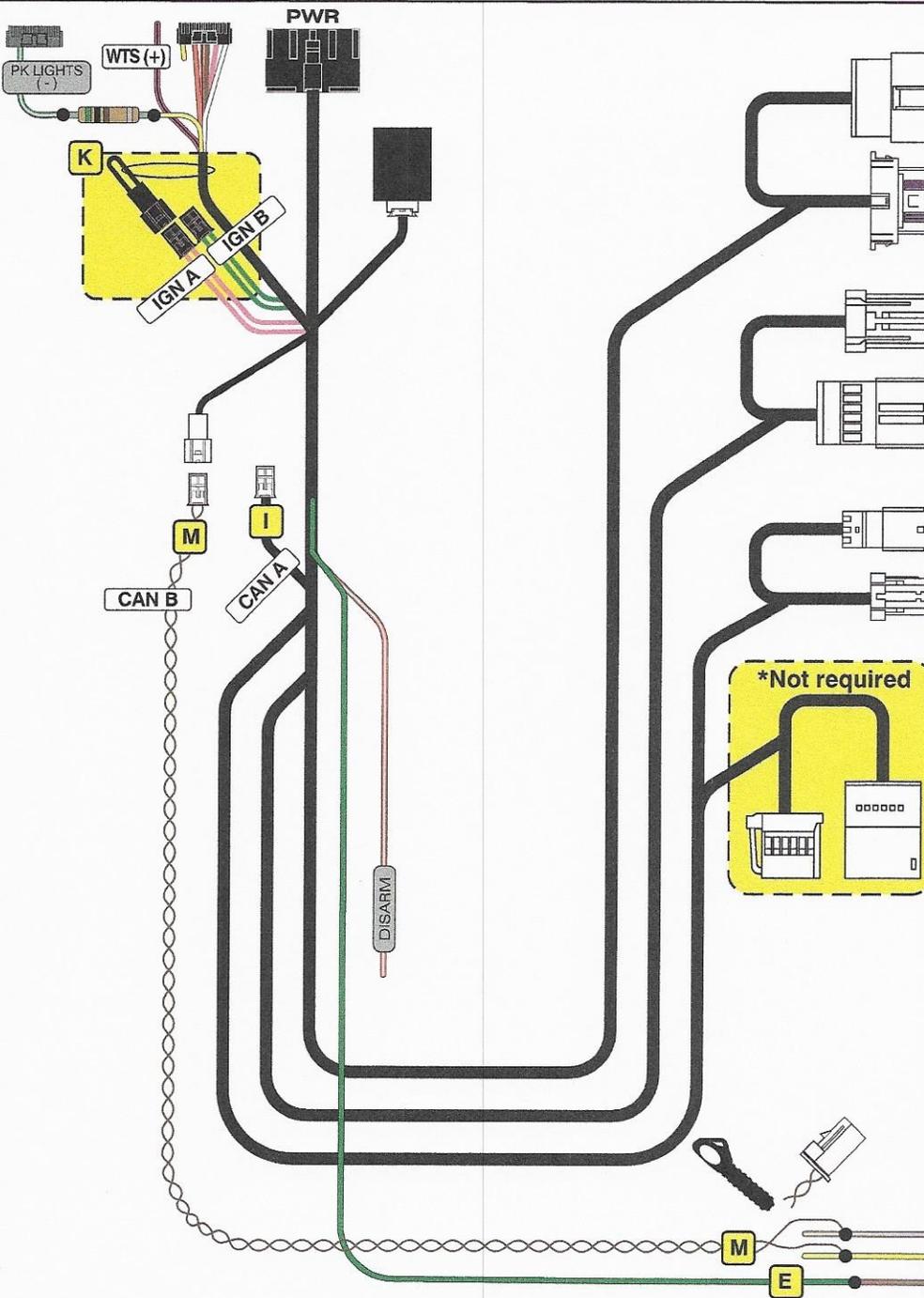
CM900AS/900S Jumper

START
ACC
IGN1



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

- M** Type 2 CAN connection uses the included CAN extension cable to source CAN data from the junction connector, above the DKP, attached to firewall (CANH, pin #57, **tan/white**, CANL, pin #58, **yellow**)
- I** Harness CAN provision is not used for this installation type, CAN data must be sourced from the DKP/firewall junction connector. Properly secure the unused connector for safety
- K** Ignition source jumper connects to **pink** leads, please ensure that the unused green leads are properly secured for safety
- E** Ignition is available at the DKP/firewall junction connector, pin #37, **pink/ft. green**. This connection is mandatory, malfunction will result if any other source is used



Module Programming Procedure CH12

- 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 solid RED, cycle IGN ON/OFF until LED blinks rapid blue
- Step 5 - If LED blinks rapid BLUE, turn IGN OFF
- Step 7 - Disconnect controller and complete extended key programming
- Step 8 - Reconnect and wake vehicle, activate IGN, LED should go solid blue
- Step 9 - 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 connection
 - 4x - No immobilizer activity, confirm CAN wiring & fob present
 - 5x - VIN error, check CAN wiring, confirm vehicle entry
 - 6x - See 4x error
 - 7x - KLON error
 - 8x - No IGNITION, check connection

FTI-CDP1 Type 2E

SUPPORT - 1(888) 820-3690, EXT. 203

FTI-CDP1 Type 2E - Vehicle Coverage & Preparation Notes

FIRSTECH, L.L.C.

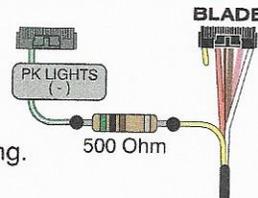
SUPPORT - 1(888) 820-3690, EXT. 203

Make	Model	Year	Install	CAN	Lights	IGN	RAP	I/O Changes
DL-CH12					Park / Auto			Green White/Blue
Chrysler	Pacifica PTS	2018	Type 2	FJC	C	H		

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

Firmware:

Covered vehicles use **BLADE-AL(DL)-CH12**, flash module and update the controller firmware before installing.



CAN:

Type 2 vehicles use CAN extension cable to make connections at the firewall junction connector, located above the driver kick panel and attached to firewall (CANH, pin #57, **tan/white**, CANL, pin #58, **yellow**).

Lighting:

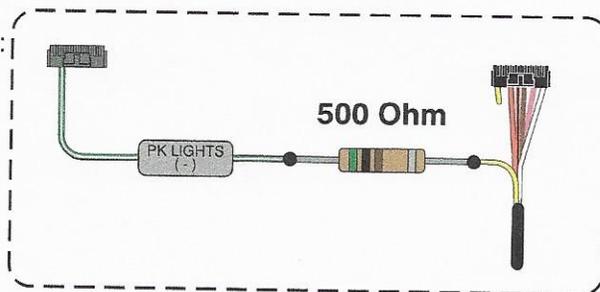
Type C parking lights use the 10-pin connector, but require additional circuit manipulation at the BLADE connector, redirecting the **yellow (MUX)** output to a 500 Ohm resistor and the controller **green/white (-)** parking light output. See lighting detail below.

Ignition:

Ignition is available at junction connector located above the driver kick panel, attached to the firewall, vehicle wire is located at pin #37, **pink/lt. green**, of the 59-pin connector

Okay, now get to work...

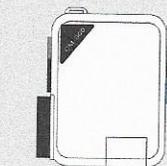
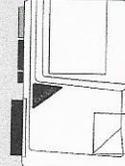
Lighting Detail:



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

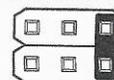
Jumper Setting			
Parking Light	<input type="checkbox"/>	<input type="checkbox"/>	(+)Door Trigger In
Accessory	<input type="checkbox"/>	<input type="checkbox"/>	(-)Door Trigger In (Default)
Ignition (Default)	<input type="checkbox"/>	<input type="checkbox"/>	
Trunk	<input type="checkbox"/>	<input type="checkbox"/>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

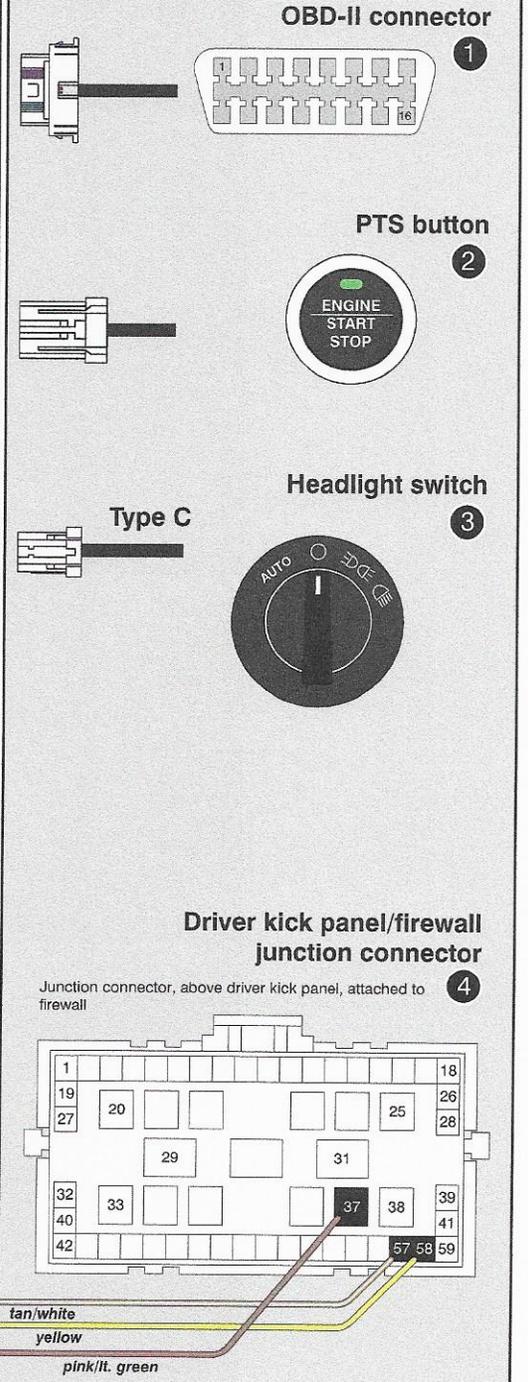
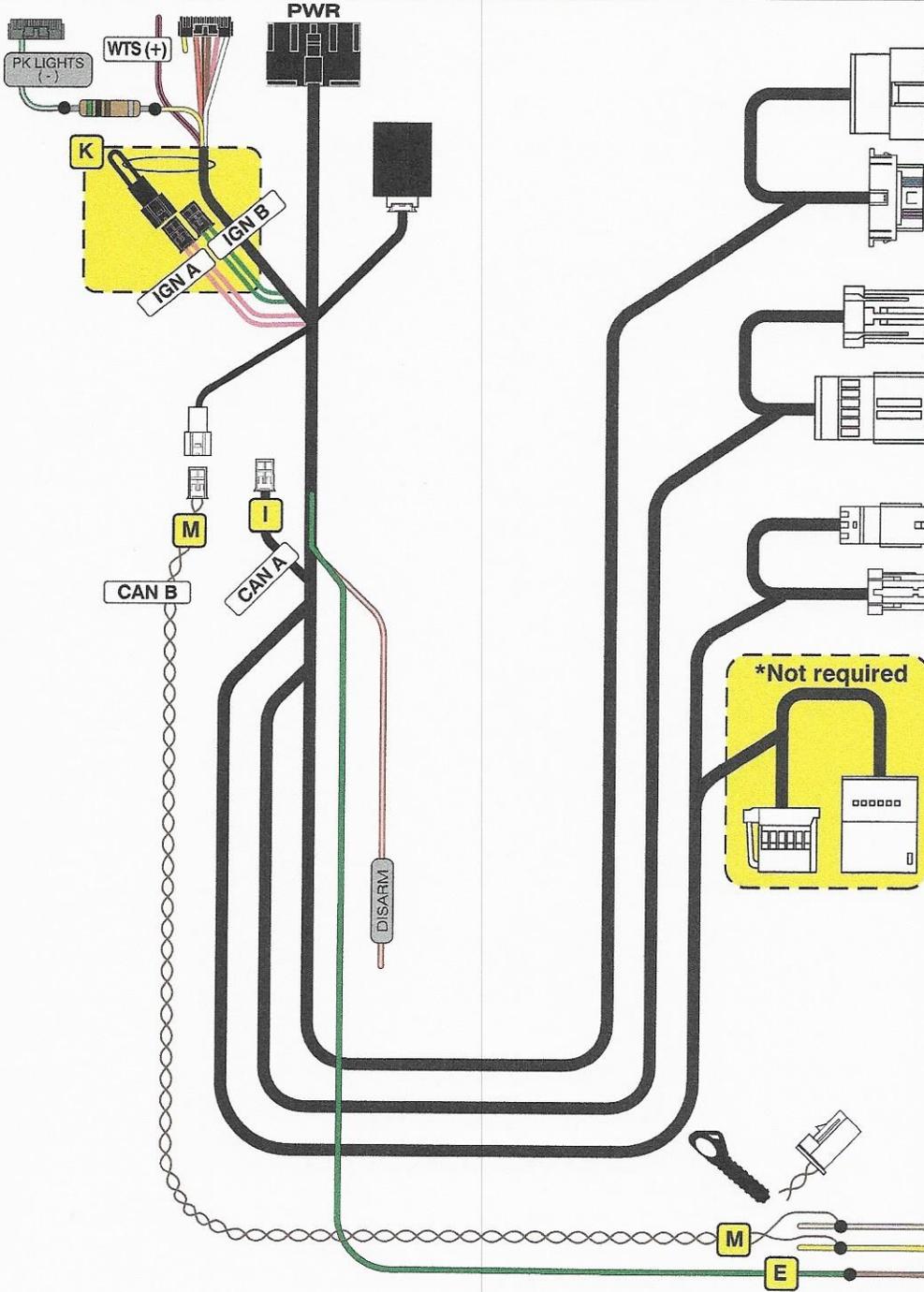


START
ACC
IGN1



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

- M** Type 2 CAN connection uses the included CAN extension cable to source CAN data from the junction connector, above the DKP, attached to firewall (CANH, pin #57, *tan/white*, CANL, pin #58, *yellow*)
- I** Harness CAN provision is not used for this installation type, CAN data must be sourced from the DKP/firewall junction connector. Properly secure the unused connector for safety
- K** Ignition source jumper connects to **pink** leads, please ensure that the unused green leads are properly secured for safety
- E** Ignition is available at the DKP/firewall junction connector, pin #37, *pink/lt. green*. This connection is mandatory, malfunction will result if any other source is used



Module Programming Procedure CH12

- 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 solid RED, cycle IGN ON/OFF until LED blinks rapid blue
- Step 5 - If LED blinks rapid BLUE, turn IGN OFF
- Step 7 - Disconnect controller and complete extended key programming
- Step 8 - Reconnect and wake vehicle, activate IGN, LED should go solid blue
- Step 9 - 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 connection
 - 4x - No immobilizer activity, confirm CAN wiring & fob present
 - 5x - VIN error, check CAN wiring, confirm vehicle entry
 - 6x - See 4x error
 - 7x - KLON error
 - 8x - No IGNITION, check connection

FTI-CDP1 Type 2E

SUPPORT - 1(888) 820-3690, EXT. 203

FTI-CDP1 Type 2F Vehicle Coverage & Preparation Notes

RSTECH, L.L.C.
SUPPORT - 1(888) 820-3690, EXT. 203

Make	Model	Year	Install	CAN	Lights	IGN	RAP	I/O Changes
DL-CH12					Park / Auto			Green White/Blue
Jeep	Cherokee PTS	2019	Type 2	BCM	A	J		
Jeep	Cherokee TIP	2019	Type 2	BCM	A	J		

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

Covered vehicle use **BLADE-AL(DL)-CH12** firmware, flash module and update the controller firmware before installing.

CAN:

Type 2 CAN connections utilize the optional CAN extension cable to source data from the vehicle BCM, connector C4 (CANL, pin #37, **yellow**, CANH, pin #38, **brown**)

Lighting:

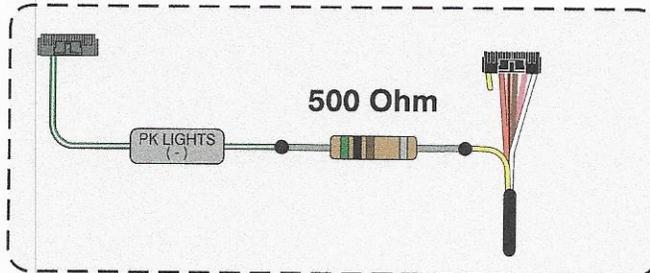
Type C parking lights use the 10-pin connector, but require additional circuit manipulation at the BLADE connector, redirecting the **yellow** (MUX) output to a 500 Ohm resistor and the controller **green/white** (-) parking light output.

Ignition:

Type J ignition is at BCM connector C4 (60-pin connector, pin #3, **brown**), proper identification of circuits is crucial, there are two (2) **brown** wires in the same connector used for this install

Okay, now get to work...

Lighting Detail:



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

CM7000/7200 Cut loop for A/T

CM-900S/900AS

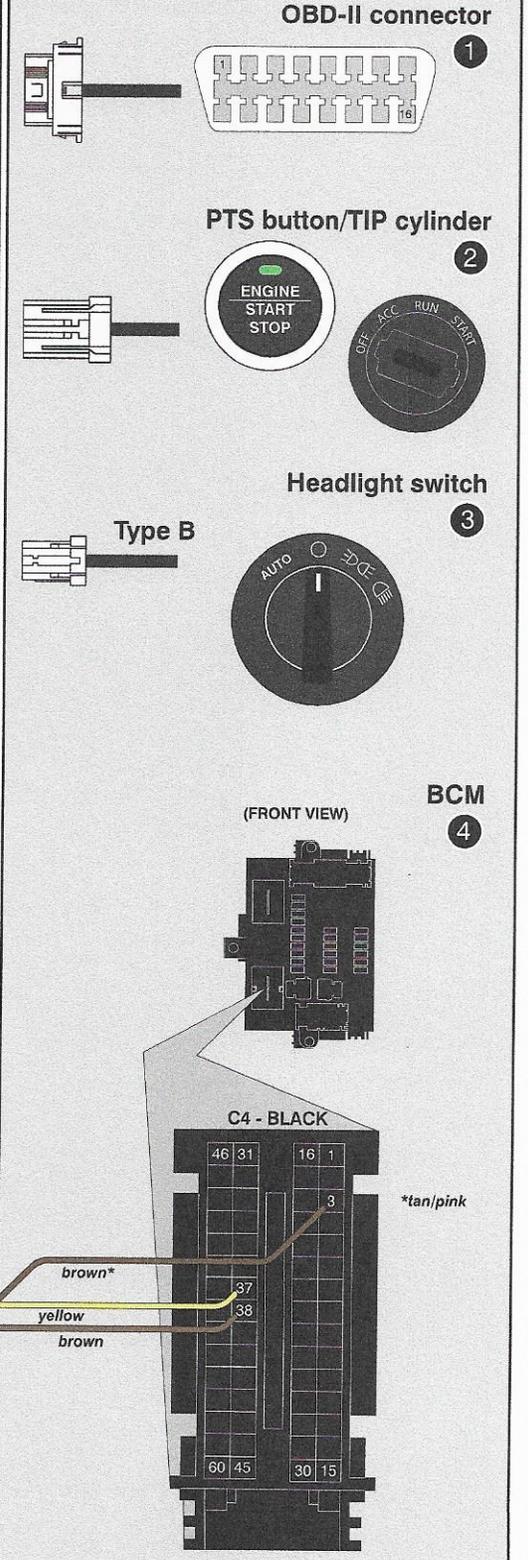
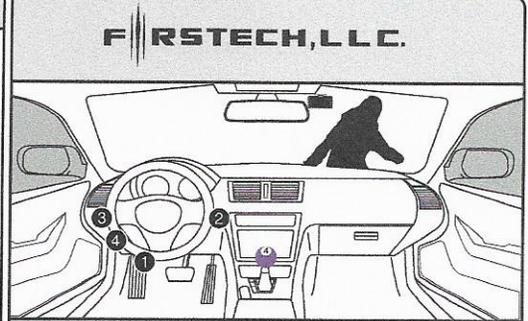
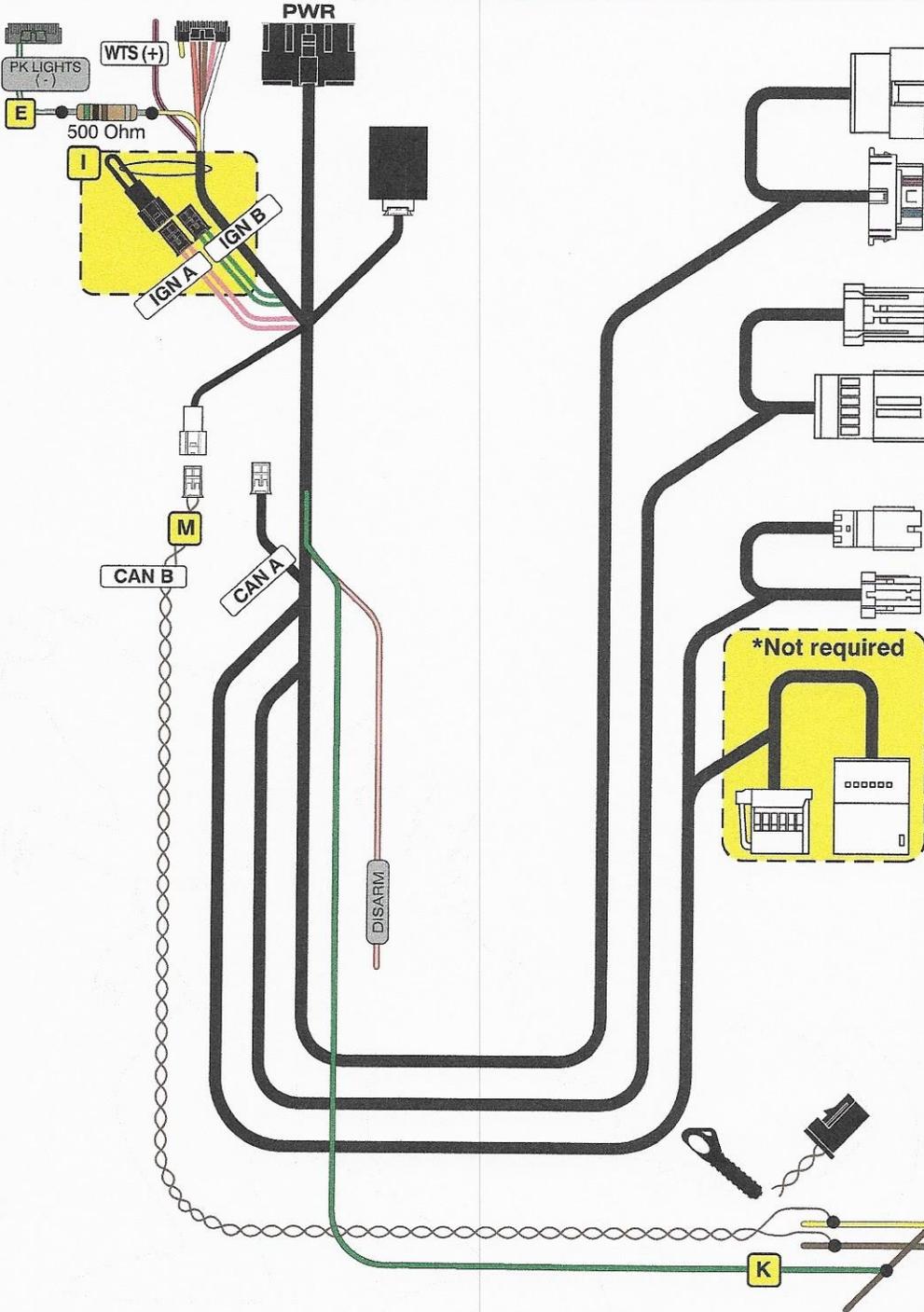
CM900AS/900S Jumper

START	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ACC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IGN1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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

- M** Covered vehicles utilize Type 2 CAN connection and optional CAN extension cable to source data from the vehicle BCM connector C4 (CANL, pin #37, **yellow**, CANH, pin #38, **brown**)
- I** Ignition source jumper, connect to pink leads for covered vehicle. The unused green jumper connection should be properly secured for safety
- K** Ignition is available at the black 60-pin BCM connector C4 (pin #3, **brown**). This install requires that you connect to two (2) brown wires at the BCM, use caution to ensure correct circuit identification
- E** Type C parking lights utilize the 10-pin connector provided, but requires a modification at the BLADE connector, redirecting the yellow MUX output to the controller parking light output and a 500 Ohm resistor. The 6-pin parking light connector is not used and should be properly secured for safety



Module Programming Procedure CH7/8

- 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 - Remove valet key and battery from OEM key fob
- Step 4 - Activate IGN, press PTS button (2x) using tip of OEM key fob
- Step 5 - When LED turns red, press button again to deactivate IGN
- Step 6 - Activate IGN again, LED should blink rapid blue, deactivate IGN
- Step 7 - Disconnect controller and complete extended key programming
- Step 8 - Reconnect to vehicle and activate IGN, LED should go solid blue
- Step 9 - 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 PTS signal, check button connection
 - 4x - No immobilizer data, check wiring
 - 4x - No immobilizer, confirm only one key in vehicle
 - 5x - No ignition, check wiring
 - 6x - VIN error, check CAN wiring, confirm vehicle application
 - 7x - PTS signal error, check button connection
 - 8x - No PTS signal, check button connection

FTI-CDP1 Type 2F

SUPPORT - 1(888) 820-3690, EXT. 203

FTI-CDP1 Type 2G -Vehicle Coverage & Preparation Notes

FIRSTECH, L.L.C.
SUPPORT - 1(888) 820-3690, EXT. 203

Make	Model	Year	Install	CAN	Lights	IGN	RAP	I/O Changes
DL-CH12					Park / Auto			Green White/Blue
Jeep	Renegade PTS	2018	Type 2	BCM	D	G	BCM	

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

Firmware:

Covered vehicles use **BLADE-AL(DL)-CH12**, flash module and update the controller firmware before installing.

Install:

Type 2 vehicles use the included CAN extension cable to source CAN data from the BCM connector C8 (CANH, pin #52, **lt. green**, CANL, pin #53, **brown**) by direct connection.

Lighting:

Type D parking lights require a controller POC be configured for **either Hazard1** (POC option #30 (momentary) **or Hazard2** (POC option #23 (latching) and connected to the **lt. green/red** wire, located at BCM connector C8, pin #59. The harness 6 & 10-pin connectors are not used. Please ensure that they are properly secured for safety.

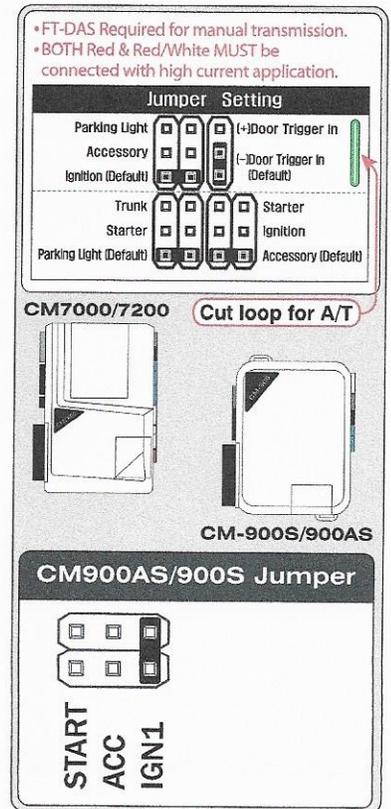
Ignition:

Ignition is available at the power steering module connector, under the steering wheel, connector C-1 (black 10-pin, pin #1, **orange/white**).

RAP:

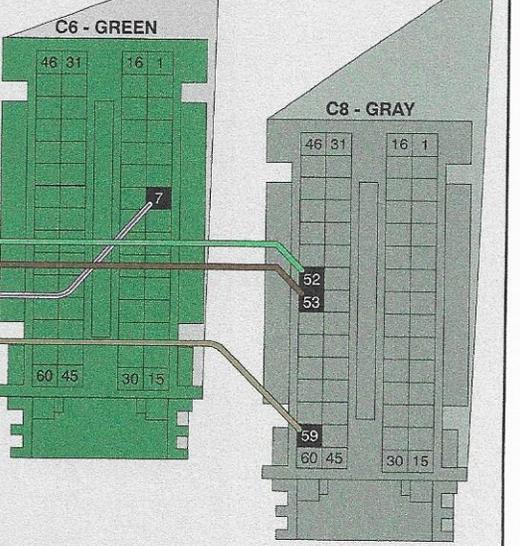
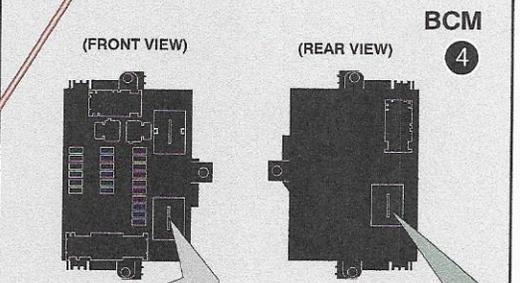
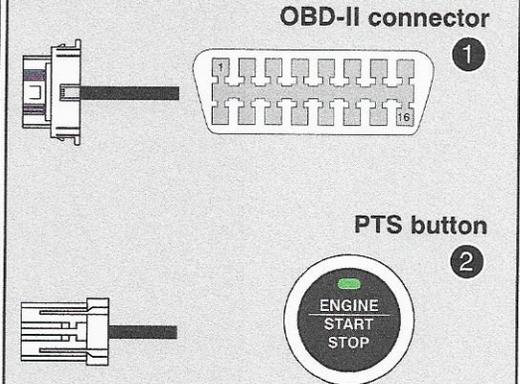
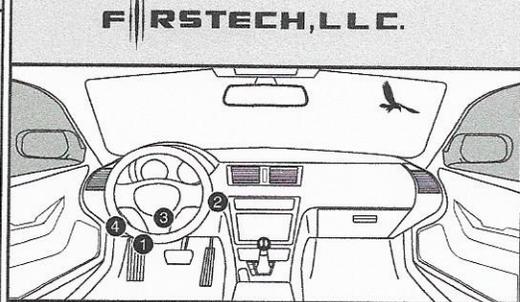
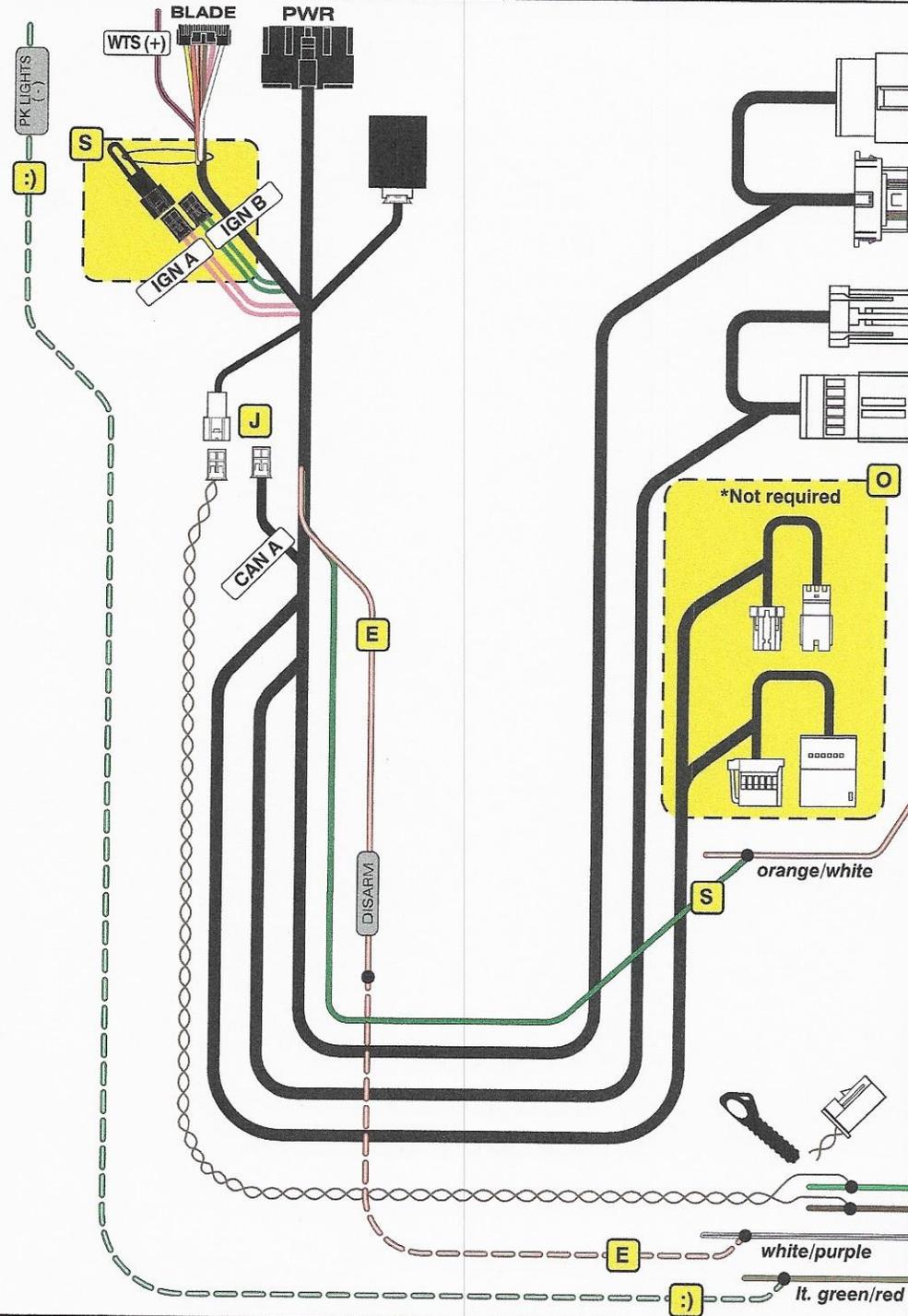
Retained accessory power is handled by harness provision (orange/white), and is connected to the driver door pin circuit (**white/purple**) at the BCM, connector C6, pin #7.

Okay, now get to work...



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

- J** Type 2 CAN requires using the included CAN extension to source CAN data from the BCM, connector C8 (CANH, pin #52, *lt. green*, CANL, pin #53, *brown*)
- O** This install type does not use either the provided 6 or 10-pin light switch connectors. See note below regarding hazard light control and required connections
- S** Ignition source jumper, connect to pink leads for covered vehicles. Ignition available at the power steering module connector, wire is *orange/white*, pin #1, 10-pin connector under steering wheel
- E** Harness includes a DISARM output that controls the RAP function for this install type, connect to driver door pin wire at BCM connector C-6 (green 60-pin connector, *white/purple*, pin #7)
- (:)** Type D lighting, hazard light control, requires a controller POC set to option #30 (hazard control), and connection to wire at BCM connector C-8 (gray 60-pin connector, *lt. green/red*, pin #59)



Module Programming Procedure CH12

- 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 solid RED, cycle IGN ON/OFF until LED blinks rapid blue
- Step 5 - If LED blinks rapid BLUE, turn IGN OFF
- Step 7 - Disconnect controller and complete extended key programming
- Step 8 - Reconnect and wake vehicle, activate IGN, LED should go solid blue
- Step 9 - 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 connection
 - 4x - No immobilizer activity, confirm CAN wiring & fob present
 - 5x - VIN error, check CAN wiring, confirm vehicle entry
 - 6x - See 4x error
 - 7x - KILON error
 - 8x - No IGNITION, check connection

FTI-CDP1 Type 2G

SUPPORT - 1 (888) 820-3690, EXT. 203

FTI-CDP1 Type 2H -Vehicle Coverage & Preparation Notes

FRSTECH, L.L.C.
SUPPORT - 1(888) 820-3690, EXT. 203

Make	Model	Year	Install	CAN	Lights	IGN	RAP	I/O Changes
DL-CH12					Park / Auto			Green White/Blue
Jeep	Wrangler PTS	2018	Type 2	BCM	D	K		
Jeep	Gladiator	2020	Type 2	BCM	D	K		

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

Firmware:

Covered vehicles use **BLADE-AL(DL)-CH12**, flash module and update the controller firmware before installing.

Install:

Type 2 vehicles use the included CAN extension cable to source CAN data from the **Green** CAN junction block, located behind the glove box

Lighting:

Type D parking lights require a controller POC be configured for either **Hazard1** (POC option #30 (momentary) **or Hazard2** (POC option #23 (latching) and connected to the **white/blue** wire, located at the climate control panel, black 12-pin connector, pin #7. The harness 6 & 10-pin connectors are not used. Please ensure that they are properly secured for safety.

Ignition:

Ignition is available at the security gateway module connector, behind driver side speaker, connector C-1 (black 12-pin, pin #7, **pink/green**)

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	(+)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

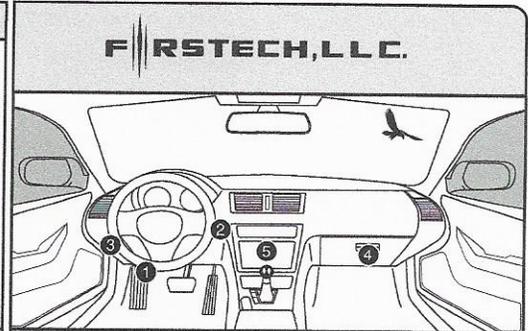
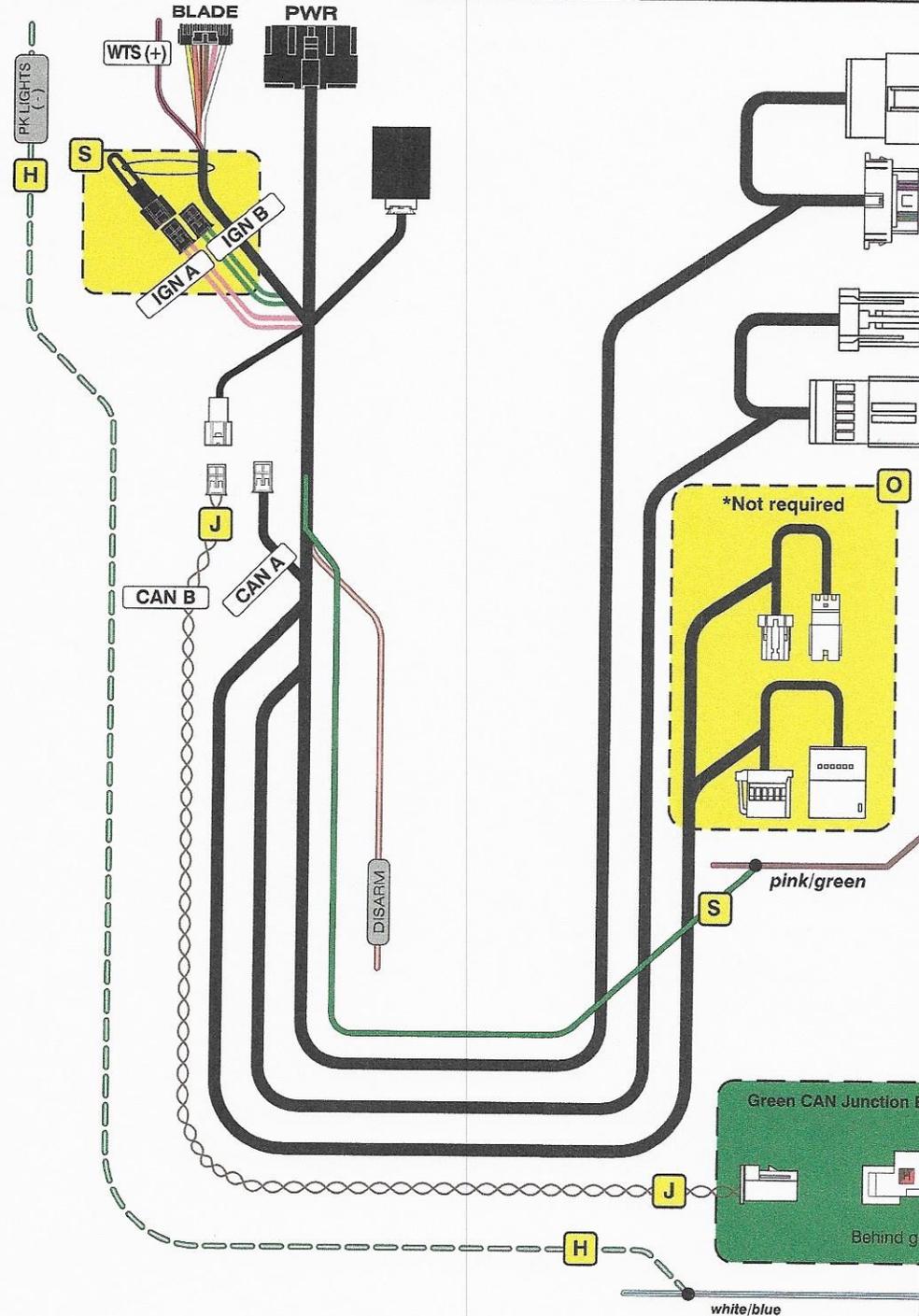
CM-900S/900AS

CM900AS/900S Jumper



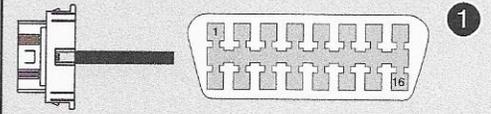
FTI-CDP1 Type 2H - Installation Notes & Wiring Diagram

- J** Type 2 CAN requires using the included CAN extension to source CAN data from the **Green CAN** junction block, located behind the glove box
- O** This install type does not use either the provided 6 or 10-pin light switch connectors. See note below regarding hazard light control and required connections
- S** Ignition source jumper, connect to pink leads for covered vehicles. Ignition available at the security gateway module connector (C1, pin #7, **pink/green**) located behind driver side speaker
- H** Type D lighting, hazard light control, requires a controller POC set to option #30 (hazard control), and connection to wire at BCM connector C-8 (gray 60-pin connector, **lt. green/red**, pin #59)



FIRSTECH, LLC.

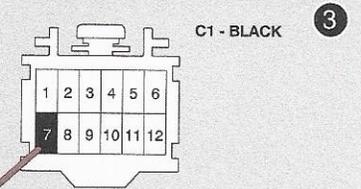
OBD-II connector



PTS button

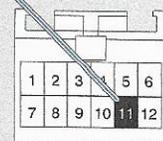


Security Gateway Module



Climate Control Panel

BLACK CONNECTOR



Module Programming Procedure CH12

- 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 solid RED, cycle IGN ON/OFF until LED blinks rapid blue
- Step 5 - If LED blinks rapid BLUE, turn IGN OFF
- Step 7 - Disconnect controller and complete extended key programming
- Step 8 - Reconnect and wake vehicle, activate IGN, LED should go solid blue
- Step 9 - 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 connection
 - 4x - No immobilizer activity, confirm CAN wiring & fob present
 - 5x - VIN error, check CAN wiring, confirm vehicle entry
 - 6x - See 4x error
 - 7x - KLON error
 - 8x - No IGNITION, check connection

FTI-CDP1 Type 2H

SUPPORT - 1(888) 820-3690, EXT. 203

FTI-CDP1 Type 2J - Vehicle Coverage & Preparation notes

Make	Model	Year	Install	CAN	Lights	IGN	Hood	I/O Changes
DL-CH12					Park / Auto			Green White/Blue
Dodge	Challenger PTS	2019	Type 2	CJB/BCM	C	BCM		
Dodge	Charger PTS	2019	Type 2	CJB/BCM	C	BCM		

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

Firmware:

Covered vehicle uses **BLADE-AL(DL)-CH12**, flash module and update the controller firmware before installing.

CAN:

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

Lighting:

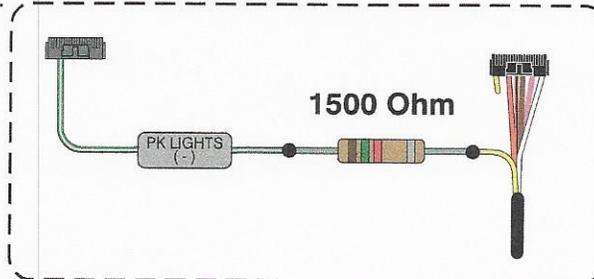
Type C parking lights use the 10-pin connector, but require additional circuit manipulation at the BLADE connector, redirecting the **yellow** (MUX) output to a 1500 Ohm resistor and the controller **green/white** (-) parking light output. See lighting detail below.

Ignition:

Ignition is available at the vehicle BCM (connector C5, pin #27, **pink/white**).

Okay, now get to work...

Lighting Detail:



• 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

START
ACC
IGN1



FTI-CDP1 Type 2K -Vehicle Coverage & Preparation Notes

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Make	Model	Year	Install	CAN	Lights	IGN	RAP	I/O Changes
DL-CH12					Park / Auto			Green White/Blue
RAM	2500/3500 PTS	2019-20	Type 2	CJB	B	TMC		
RAM	2500/3500 PTS Diesel	2019-20	Type 2	CJB	B	TMC		

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

Firmware:

Covered vehicles use **BLADE-AL(DL)-CH12**, flash module and update the controller firmware before installing.

Install:

Type 2 vehicles use the included CAN extension cable to source CAN data from the **green** CAN junction block, located behind the light switch

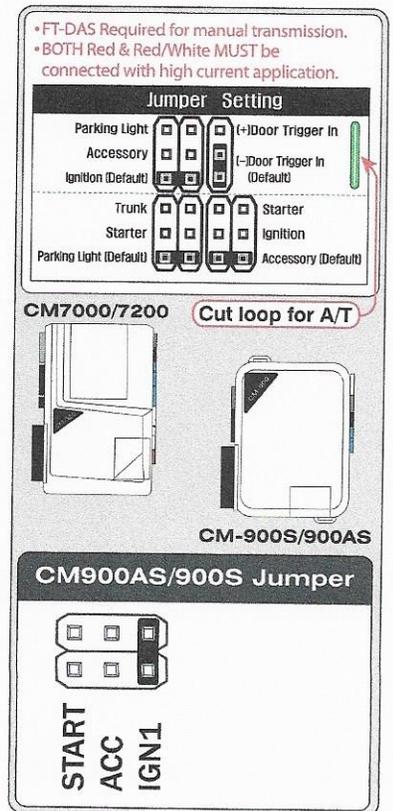
Lighting:

Type B parking lights use the harness 10-pin MUX provision, the harness 6-pin connectors is not used. Please ensure that it is properly secured for safety.

Ignition:

Ignition is available at the trailer module connector (TMC), located to the right of the steering column, gray 10-pin connector, pin #10, **pink/green**.

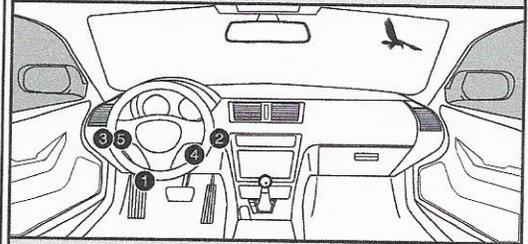
Okay, now get to work...



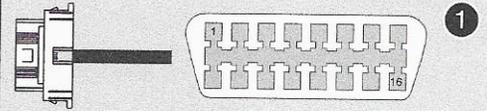
FTI-CDP1 Type 2K - Installation Notes & Wiring Diagram

- A** Type 2 CAN requires using the included CAN extension to source CAN data from the Green CAN junction block, located behind the light switch
- B** This install type uses the 10-pin light switch connectors, the 6-pin connector is not used. Secure the unused connector for safety.
- C** Ignition source jumper, connect to pink leads for covered vehicles. Ignition available at the trailer module connector, (gray 10-pin connector, pin #10, **pink/green**) located to the right of steering column.

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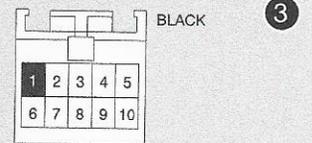
OBD-II connector



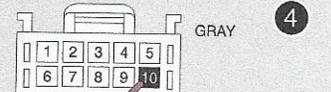
PTS button



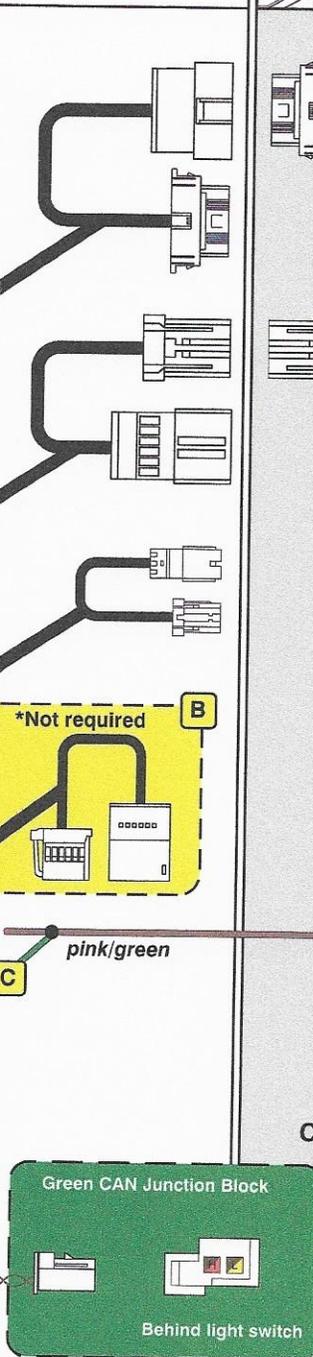
Parking Light Switch



Trailer Module Connector



CAN Junction Block (behind light switch)



Module Programming Procedure CH12

- 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 solid RED, cycle IGN ON/OFF until LED blinks rapid blue
- Step 5 - If LED blinks rapid BLUE, turn IGN OFF
- Step 7 - Disconnect controller and complete extended key programming
- Step 8 - Reconnect and wake vehicle, activate IGN, LED should go solid blue
- Step 9 - 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 connection
 - 4x - No immobilizer activity, confirm CAN wiring & fob present
 - 5x - VIN error, check CAN wiring, confirm vehicle entry
 - 6x - See 4x error
 - 7x - K-LON error
 - 8x - No IGNITION, check connection

FTI-CDP1 Type 2K

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