



# **Installation of LVJ Motorsports Third Brake Light Reverse Harness Stop, Tail , Turn Flasher**

Created by Keith Mandoske

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## Wire Harness Mounting Instructions

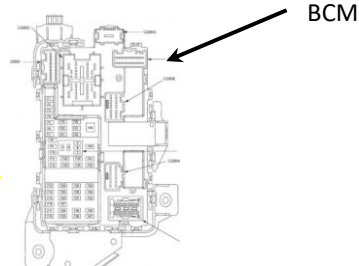
### Primary Harness with STOP/ TAIL / TURN with Reverse

(Red 14ga) Connect To Aux switch wire or desired 12V switch to turn on Stop / Tail / Turn device

(Yellow 14 ga) Connect To Aux switch wire or desired 12V switch to turn on rear amber lights (Flashing)

(Blue 14ga) Connect To Aux switch wire or desired 12V switch to turn on rear amber lights (Solid)

See detail on next page for connection points



BCM

M

Momentary Switch, Press to change flashing pattern, (optional extension cable available)

(Right-Side Amber)

(Left -Side Amber)

(Cargo Light)

Connector (Typical)

White Wire

**Installer Note: USE FORD UPFITTER WIRES IN CAB FOR CONNECTIONS TO UPFITTER SWITCHES**

Scan below for Video of functionality of switches and how the unit works



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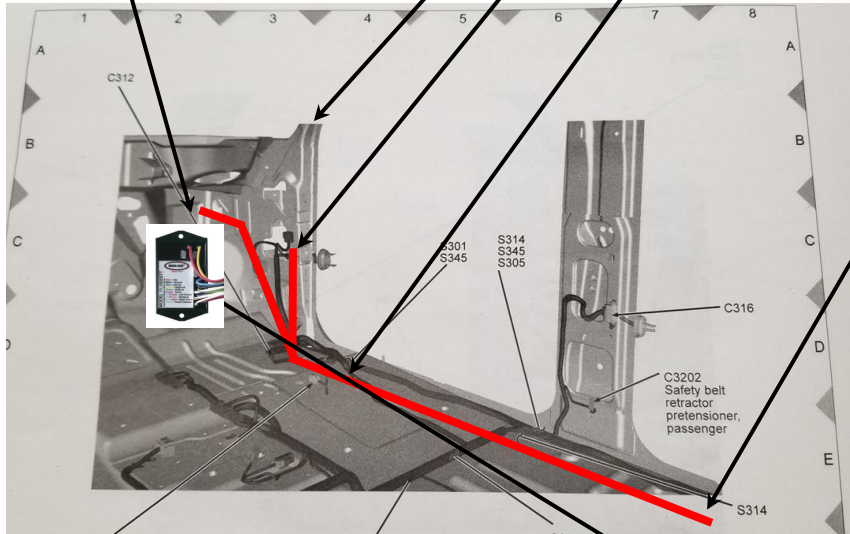
### Primary Harness with STOP/ TAIL / TURN with Reverse

Route wire to Aux wire in Cab or extend to switch locations as needed

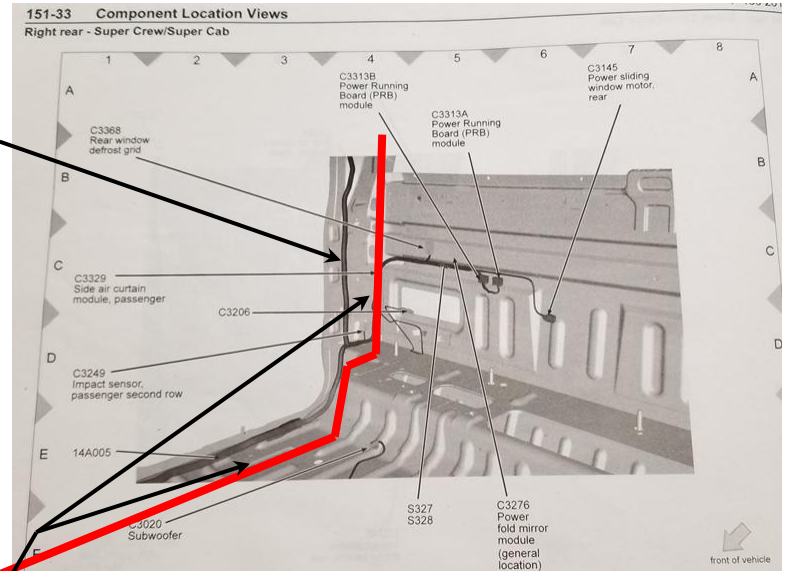
"A" pillar

BCM located in this area

Route wire harness in Cab under passenger side door threshold trim and along "C" pillar to third brake Light Location



Mount Stop / Tail / Turn / Flasher in this area



For Ground- Gen1 and other vehicles, Use self tapping screw into "A" pillar , For Gen2 use ground lug on "A" pillar near BCM

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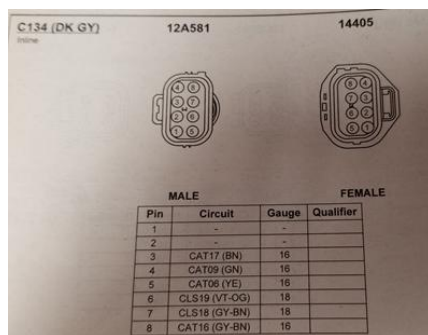
## Wire Harness Mounting Instructions

(Under hood On driver side on wheel well)

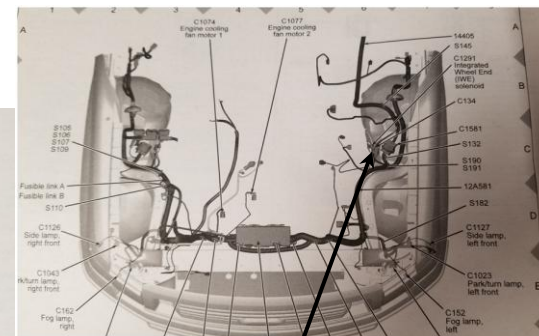
### 2010 F-150

Wire Color	Use	Connector	Pin Number	Ford Wire Color
White	Reverse	C134	#8	GY-BN 16 gauge wire
White with Purple	Left Turn	C2280D	#25	GY-BN
White with Red	Right Turn	C2280D	#26	VT-OG
Purple	Tail / Running Lamp	C2280E	#6	VT-WH

Key
BU=Blue
WH=White
BN=Brown
GN=Green
YE= Yellow
VT=Violet
OG=Orange



**C1345 Connector**



**C134 Connection**

**C2280D Connection**

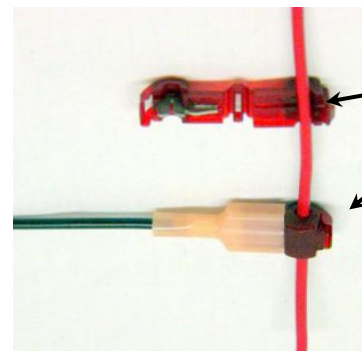
**C2280E Connection**

**Step 1-** Locate the correct connector and incoming / outgoing wire and remove the outer wire wrap exposing about 2" of wire to make room for the new Tap connector and so you can see the wire colors.

**Step 2-** Locate the correct wire from the Chart attached, double check the wire color and its correct pin location of the plugs below.

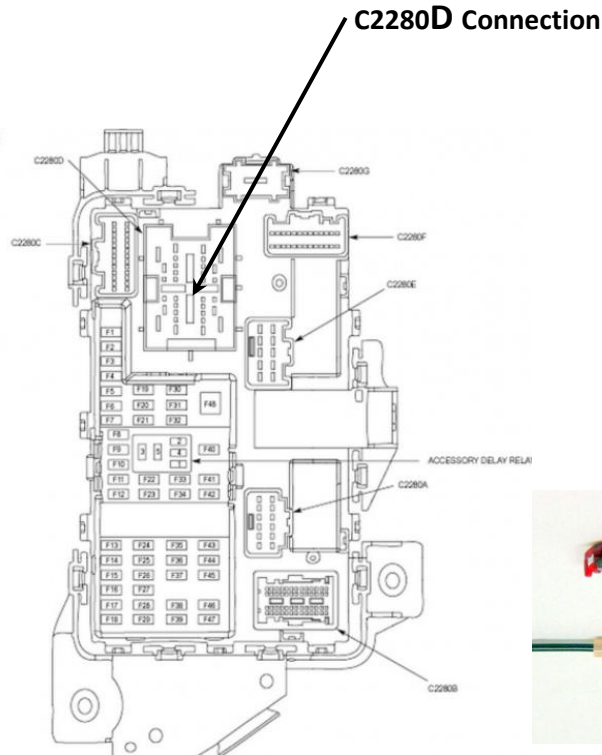
**Step 3-** Insert / place the Tap Connector around the wire and squeeze closed.

**Step -4** Connect the correct wire from the supplied harness to the new Tap connector



**(Fuse Panel located in Passenger side foot well on the A-Pillar)**

Key
BU=Blue
WH=White
BN=Brown
GN=Green
YE= Yellow
VT=Violet
OG=Orange
GY=Grey

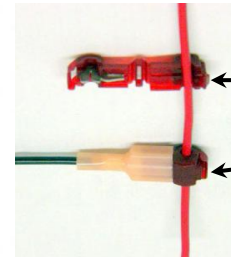


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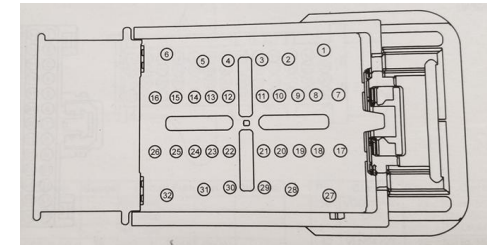
— **Step 3-** Insert / place the Tap Connector around the wire and squeeze closed.

**Step -4** Connect the correct wire from the supplied harness to the new Tap connector



2011-2014 F-150				
Wire Color	Use	Connector	Pin Number	Ford Wire Color
White	Reverse	C2280D	#13	BU-WH
White with Purple	Left Turn	C2280D	#12	GY-BN
White with Red	Right Turn	C2280D	#15	VT-OG
Purple	Tail / Running Lamp	C2280D	#18	YE-GN

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## C2280D Connection



**\*\* Note- The actual panel is inverted from this drawing in the vehicle\*\***



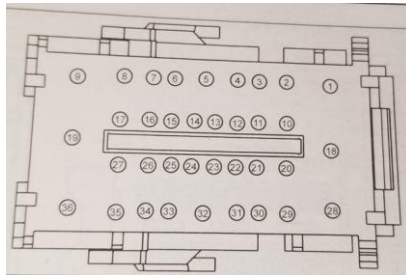
## Wire Harness Mounting Instructions BCM Control Connection Points

(Fuse Panel located in Passenger side foot well on the A-Pillar)

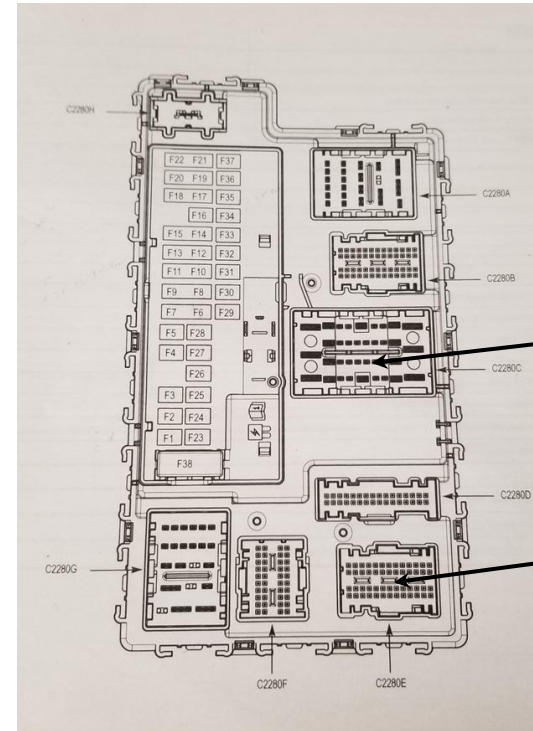
### 2015-2023 F-150

Wire Color	Use	Connector	Pin Number	Ford Wire Color
White	Reverse	C2280C	#11	GN-BN
White with Purple	Left Turn	C2280E	#31	GN-BU
White with Red	Right Turn	C2280E	#44	BU-OG
Purple	Tail / Running Lamp	C2280C	#12	BU-GY

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GN=Green
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VT=Violet
OG=Orange

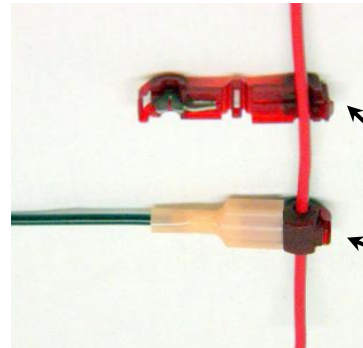


**C2280C Connector**



**C2280C Connection**

**C2280E Connection**



**Step 1-** Locate the correct connector and incoming / outgoing wire and remove the outer wire wrap exposing about 2" of wire to make room for the new Tap connector and so you can see the wire colors.

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**Step 3-** Insert / place the Tap Connector around the wire and squeeze closed.

**Step -4** Connect the correct wire from the supplied harness to the new Tap connector

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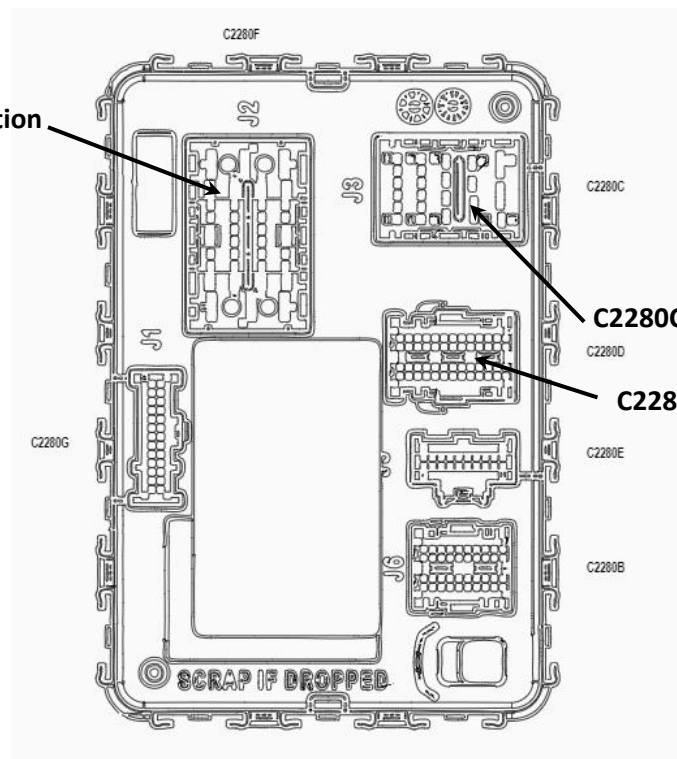
## Wire Harness Mounting Instructions BCM Control Connection Points

(Fuse Panel located in Passenger side foot well on the A-Pillar)

2024 F-150				
Wire Color	Use	Connector	Pin Number	Ford Wire Color
White	Reverse	C2280C	#3	GN-BN
White with Purple	Left Turn	C2280F	#6	BU-GN
White with Red	Right Turn	C2280F	#31	YE-VT
Purple	Tail / Running Lamp	C2280D	#26	GN-OG

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YE= Yellow
VT=Violet
OG=Orange

C2280F Connection



C2280C Connection

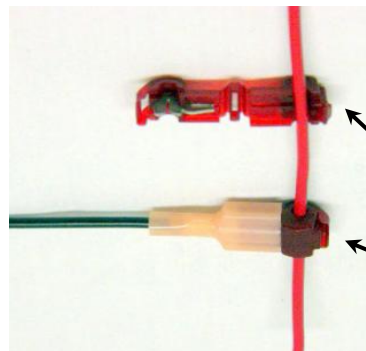
C2280D Connection

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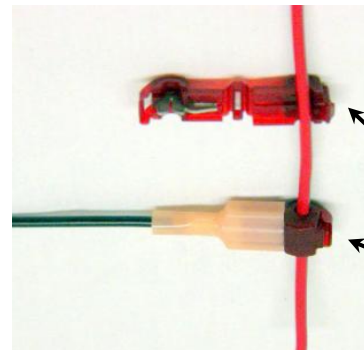
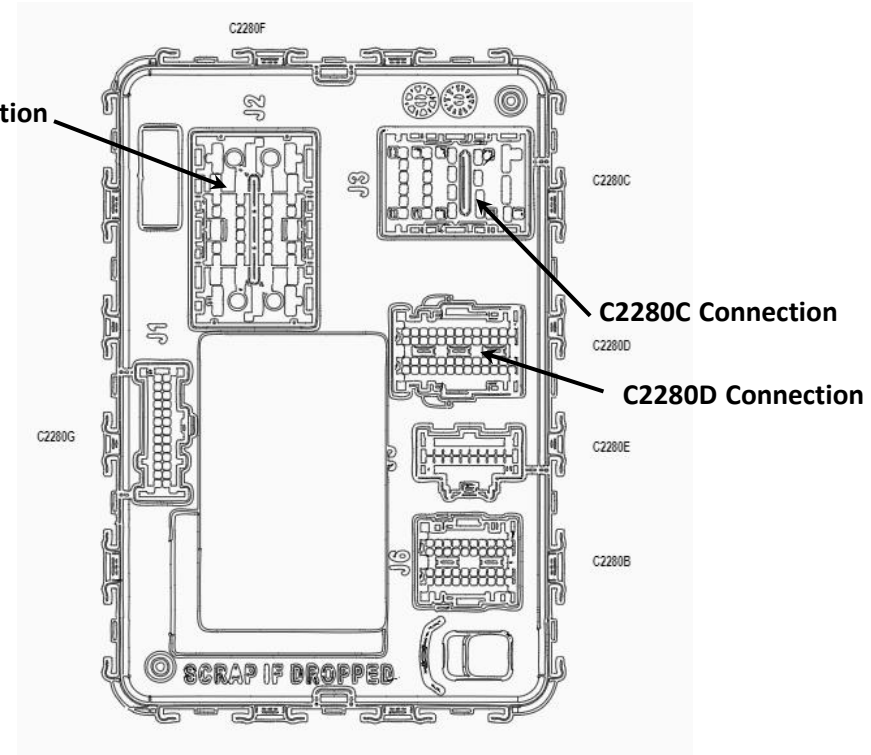
## Wire Harness Mounting Instructions BCM Control Connection Points

(Fuse Panel located in Passenger side foot well on the A-Pillar)

2025 F-150				
Wire Color	Use	Connector	Pin Number	Ford Wire Color
White	Reverse	C2280C	#3	GN-BN
White with Purple	Left Turn	C2280F	#6	BU-GN
White with Red	Right Turn	C2280F	#31	YE-VT
Purple	Tail / Running Lamp	C2280F	#15	WH/VT

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VT=Violet
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C2280F Connection



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**For Questions or Comments Contact**

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**9am – 9pm Central**

**7 days a week**



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