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

Created by Keith Mandoske

# LVJ Motorsports LLC

## Wire Harness Mounting Instructions
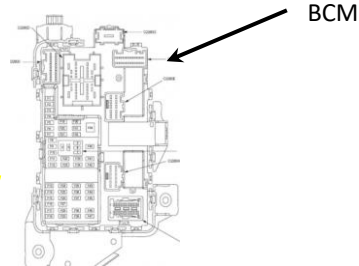### Primary Harness with STOP/ TAIL / TURN with Reverse

See detail on next page for connection points

BCM

(Right-Side Amber)    (Left -Side Amber)    (Cargo Light)

Connector (Typical)

White Wire

(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)

M

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

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



SCAN ME

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## Wire Harness Mounting Instructions
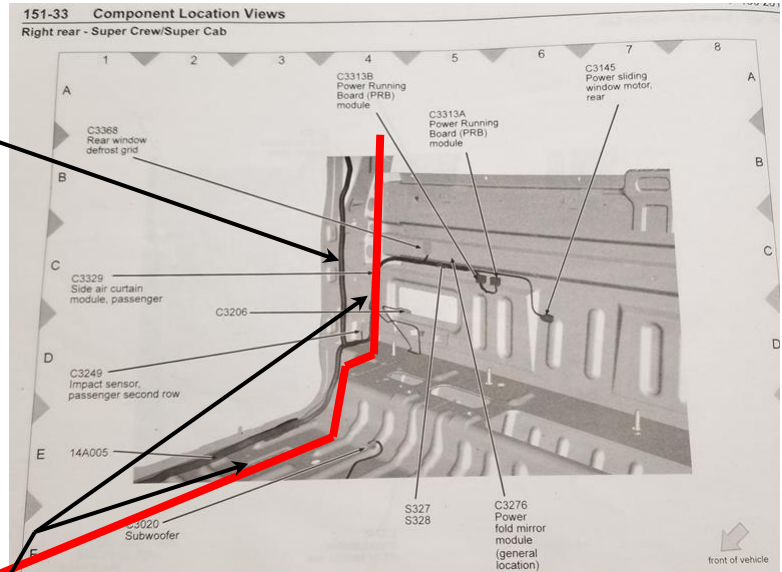**Primary Harness with STOP/ TAIL / TURN with Reverse**

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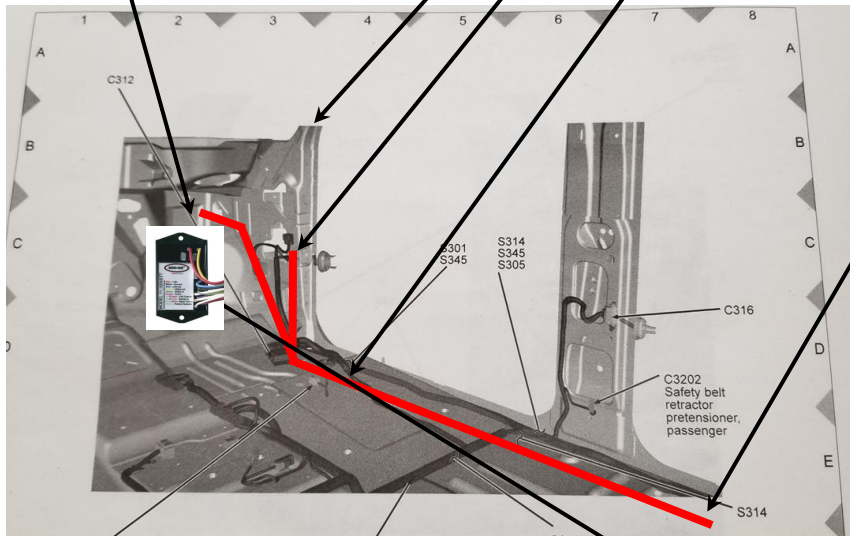
"A" pillar

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

"C" Pillar



151-33    Component Location Views
Right rear - Super Crew/Super Cab

C3368 Rear window defrost grid

C3313B Power Running Board (PRB) module

C3313A Power Running Board (PRB) module

C3145 Power sliding window motor, rear

C3329 Side air curtain module, passenger

C3206

C3249 Impact sensor, passenger second row

14A005

S327 S328

C3276 Power fold mirror module (general location)

C3020 Subwoofer

front of vehicle



C312

C301 S345

S314 S345 S305

C316

C3202 Safety belt retractor pretensioner, passenger

S314

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

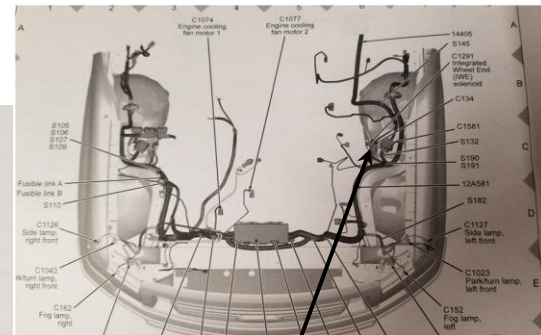Mount Stop / Tail / Turn / Flasher in this area

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# Wire Harness Mounting Instructions

**(Under hood On driver side on wheel well)**



**C134 Connection**

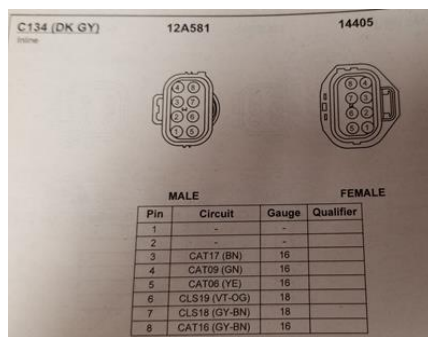**C2280D Connection**

**C2280E Connection**

### 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 |



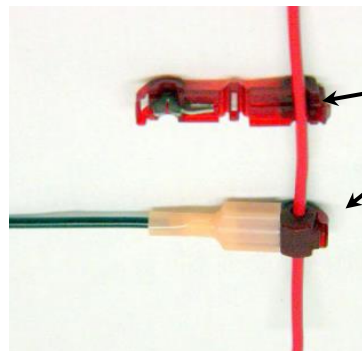| Pin | Circuit | Gauge | Qualifier |
|---|---|---|---|
| 1 | - | - | |
| 2 | - | - | |
| 3 | CAT17 (BN) | 16 | |
| 4 | CAT09 (GN) | 16 | |
| 5 | CAT06 (YE) | 16 | |
| 6 | CLS19 (VT-OG) | 18 | |
| 7 | CLS18 (GY-BN) | 18 | |
| 8 | CAT16 (GY-BN) | 16 | |

**C1345 Connector**

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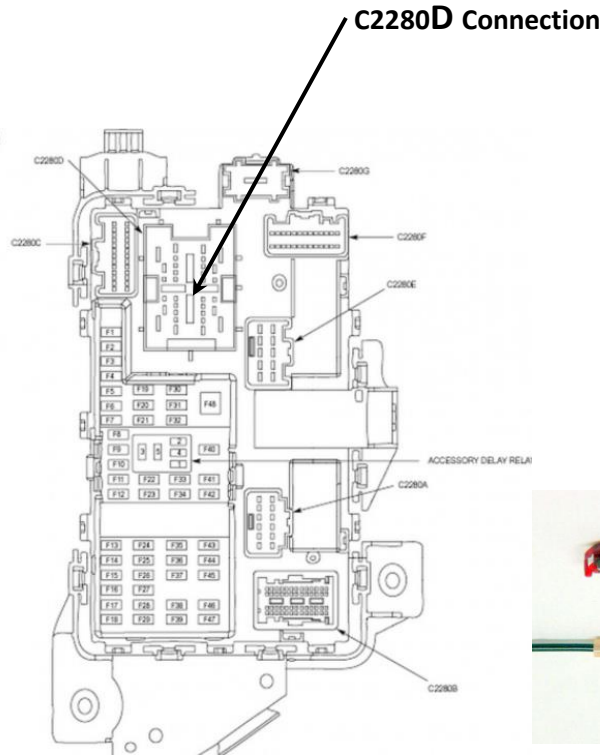
**Step -4** Connect the correct wire from the supplied harness to the new Tap connector

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![LVJ Motorsports LLC logo]

**C2280D Connection**

BODY CONTROL MODULE (BCM)

## Wire Harness Mounting Instructions
## BCM Control Connection Points
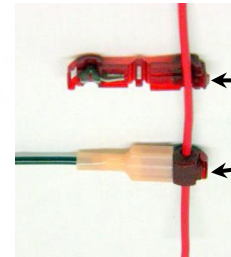**(Fuse Panel located in Passenger side foot well on the A-Pillar)**



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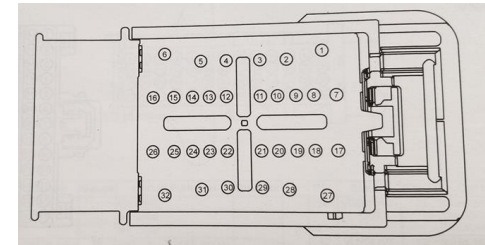
**Step 3-** Insert / place the Tap Connector around the wire and squeeze closed.

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

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

| 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 |

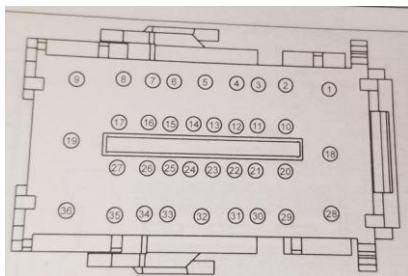Created by Keith Mandoske

**C2280D Connection**

**LVJ Motorsports** llc

# Wire Harness Mounting Instructions
# BCM Control Connection Points

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



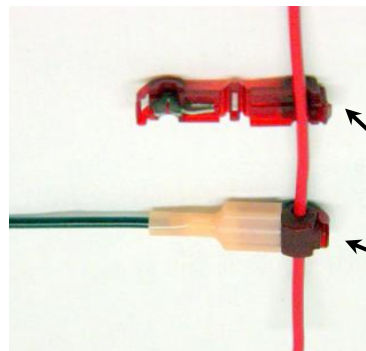**C2280C Connection**

**C2280E Connection**

| 2015-2024 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 |

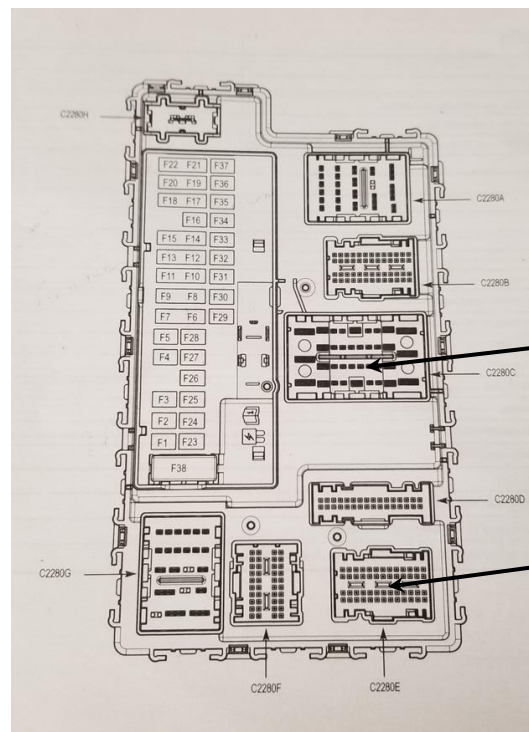| Key |
|---|
| BU=Blue |
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| OG=Orange |



**C2280C Connector**



**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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# LVJ Motorsports LLC

**For Questions or Comments Contact**

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**9am – 9pm Central**

**7 days a week**





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