2015 F150 Blind Spot Information System (BLIS) Installation

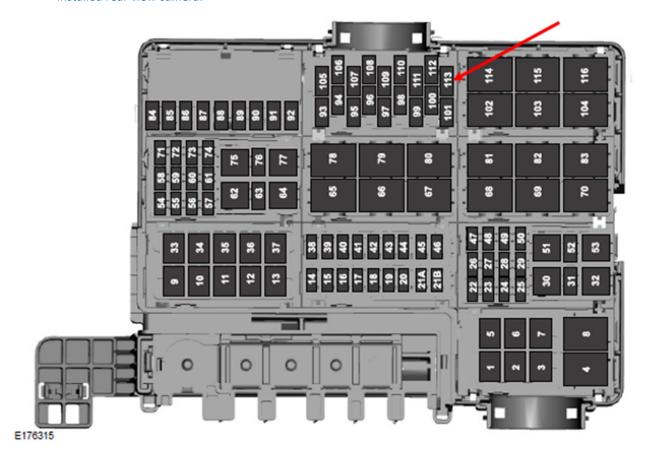
- Note: if using FORScan to program modules, prior to disassembly; save a backup copy of the current Driver's Door Module & Passenger's Door Module (DDM & PDM) As Built programming. This will simplify and expedite programming the replacement DDM & PDM.
- Note: Prior to beginning, using FORScan or equivalent, check for any DTCs that may be present in any modules. Document the DTCs and clear. This step will assist in identifying any DTCs that were/were not created as a result of the following procedure.
- Note: this BLIS installation guide assumes the vehicle has the XLT 302A level trim and already
 has fully functioning Non-King Ranch LED tail lamps (2015-17 HL3Z-13404-D RH/HL3Z-13405-D
 LH or 2018 JL3Z-13404-F RH/JL3Z-13405-F LH).
 - Installing LED tail lamps is most easily accomplished by replacing the 13A409 tail lamp harness with the JL3Z-13A409-G harness. JL3Z-13A409-G harness supports: BLIS, LED Tail/Reverse/Turn & Stop Lamps, LED Bed Lamps, Trailer Assist Lamp, Rear View Camera and Tail Gate Lock Actuator. Requires using FORScan to Disable Rear Lamp Outage: change BCM address 726-27-02 from xxxx xxxx x1xx (1 = Rear Lamp Outage Enabled) to xxxx xxxx x0xx (0 = Rear Lamp Outage Disabled).

Required Hardware:

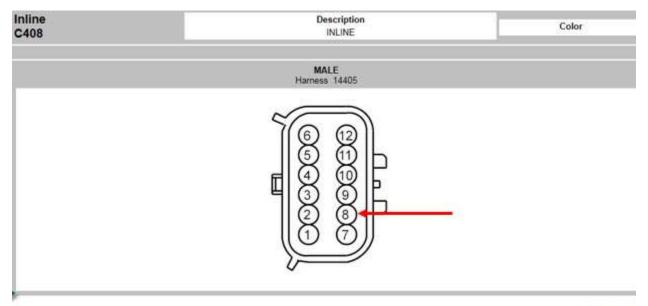
- (1) JL3Z-14D189-A Bracket RH BLIS Module Mounting (Required w/2018 LED Tail Lamps)
- (1) FL3Z-14D189-A Bracket RH BLIS Module Mounting (Required w/2015 2017 LED Tail Lamps)
- (1) JL3Z-14D189-B Bracket LH BLIS Module Mounting (Required w/2018 LED Tail Lamps)
- (1) FL3Z-14D189-B Bracket LH BLIS Module Mounting (Required w/2015 2017 LED Tail Lamps)
- (8) W715133-S900 Screw BLIS Module Mounting Bracket to Tail Lamp Housing
- (2) FL3Z-14C689-A Sensor BLIS Module
- (4) W505564-S450 Screw BLIS Module to BLIS Module Mounting Bracket
- (1) FL3Z-17682-AF Mirror RH (Trailer Tow w/black textured skull cap) or equivalent mirror with BLIS capability
- (1) FL3Z-17683-AF Mirror LH (Trailer Tow w/black textured skull cap) or equivalent mirror with BLIS capability
- (4) EU2Z-14421-CA (Motorcraft part # WT-1013) Terminals C405 Connector. Molex Part # 33000-0003
- (4) DU2Z-14474-DA (Motorcraft part # WT-1003) Terminals C327 Connector. Molex Part # 33012-2003
- (1) DG9Z-14B291-WP LH Door Module vehicles built on 10/20/14 thru 4/7/16
- (1) DG9Z-14B291-WR RH Door Module vehicles built on 10/20/14 thru 4/7/16
- (1) FL3Z-14630-E RH Door Harness (Lariat wo/Tech. Pkg.) required for vehicles with 8 pin mirror connecters
- (1) FL3Z-14631-A LH Door Harness (Lariat wo/Tech. Pkg.) required for vehicles with 8 pin mirror connecters
- (20') 9744 Belden (or equivalent) 4-Conductor (2 twisted pairs x 22 gauge) Wire
- (20') 83-8010 Grote (or equivalent) 3/8" polyethylene split wire loom
- (8) 84-2150 Grote (or equivalent) 18-22 gauge (Red) butt splices w/heat shrink
- (15) 6" black tie straps

Wiring Modifications:

Confirm the presence of 7.5 amp fuse at location # F113 in the Power Distribution Box (Battery Junction Box - BJB).
 This fuse provides 12V+ to the BLIS modules. This fuse should be present if vehicle is equipped with factory installed rear view camera.



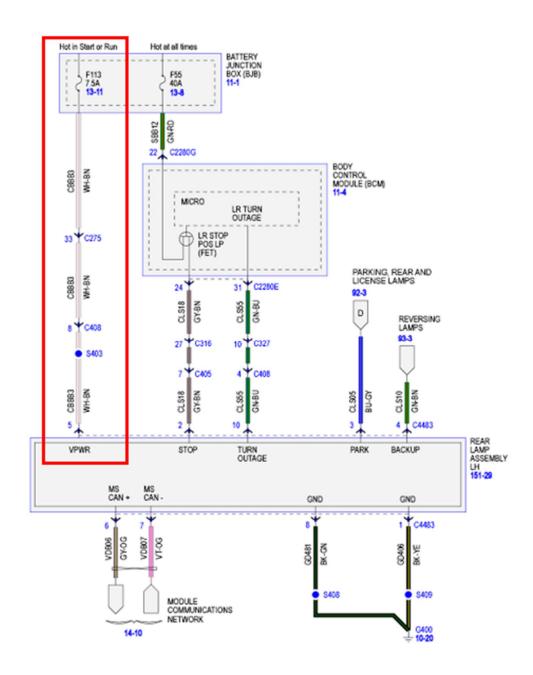
The C408 12 pin inline connector is located at the rear of the LH frame rail. Confirm the presence of WH-BN /
CBBB3 wire at location # 8 of C408 male connector of the 14405 frame harness. This wire provides 12V+ to the
BLIS modules. This wire should be present if vehicle is equipped with factory installed rear view camera.



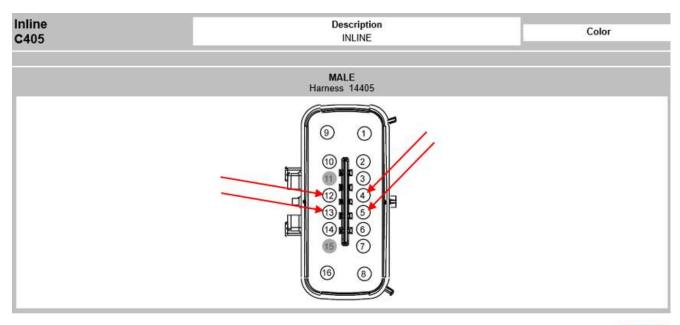
Check for Term

Pin	Circuit	Gauge	Qualifier
1	CPL10 (GN-WH)	16	
2	CPL60 (BN-YE)	22	
3	CLS54 (BU-OG)	22	
4	CLS55 (GN-BU)	22	
5	VPK08 (WH-OG)	22	
6	RPK08 (BN-VT)	22	
7	CLN25 (VT)	22	
8	CBBB3 (WH-BN)	22	
9	VMP24 (WH)	22	
10	RMP19 (BN-VT)	22	
11	VMP19 (WH-GN)	22	
12	DMP19 (BK)	20	

LED WITH BLIS



• The C405 16 pin inline connector is located at the rear of the LH frame rail. Using (4) EU2Z-14421-CA (Motorcraft part # WT-1013) Terminals, the C405 male connector of the 14405 frame harness must have 4 wires added at location #s 4, 5, 12 & 13 for the CAN Bus circuit**.

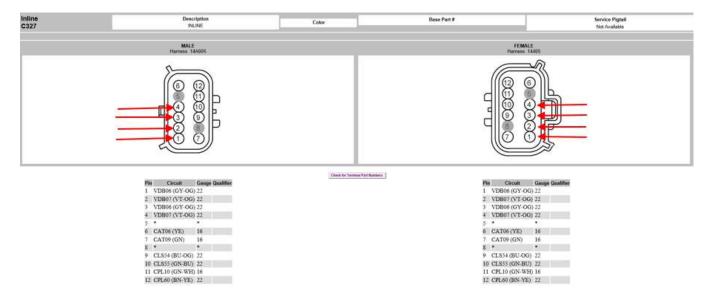


Check for Termi

Pin	Circuit	Gauge	Qualifier
1	CPL11 (GY-BN)	14	
2	CLS10 (GN-BN)	18	
3	CLS05 (BU-GY)	22	
4	VDB06B (GY-OG)	22	
5	VDB06F (GY-OG)	22	
6	CLS19 (VT-OG)	22	
7	CLS18 (GY-BN)	22	
8	CLS23 (GY-OG)	22	
9	CPL13 (BN-GN)	14	
10	CLN13 (WH-BU)	22	
11	*	*	
12	VDB07 (VT-OG)	22	
13	VDB07 (VT-OG)	22	
14	VLN74 (GN-BU)	22	
15	*	*	
16	CLS27 (GN-OG)	22	

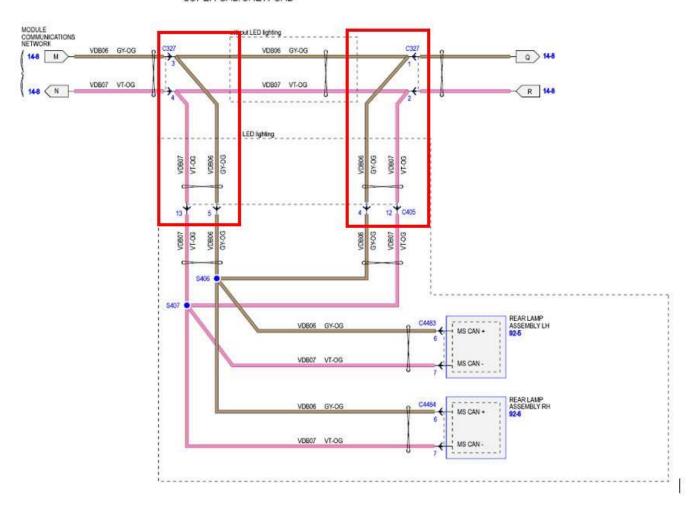
• The 4 wires that were added to the C405 inline 16 pin male connector in the previous step must be routed from the rear of the vehicle along the LH frame rail and connected to the C327 female inline 12 pin connector of the 14405 frame harness using (4) DU2Z-14474-DA (Motorcraft part # WT-) Terminals at location #s 1, 2, 3 & 4 for the CAN Bus circuit**. The C327 12 pin inline connector is located in the engine compartment below the master cylinder on top of the LH fender well. These (4) additional wires will complete the CAN Bus circuit for the BLIS modules. Note: see attached BLIS wiring schematic below. Vehicles with halogen tail lamps wo/BLIS will have (2) short jumper wires installed between terminals # 1 & 3 (GY-OG / VBBB06) and 2 & 4 (VT-OG / VBBB07) at the C327 female connector of the 14405 frame harness. These (2) jumper wires can be extracted from the 14405 frame harness and cut to allow connection of the (4) additional wires to the C327 female connector or (4) DU2Z-14474-DA terminals can be used.

Note: The wiring at locations 1, 2, 3 & 4 (terminals 1 & 3 (GY-OG / VBBB06) and 2 & 4 (VT-OG / VBBB07) for the CAN Bus circuits should already be present at the C327 inline male connector of the 14A005 cab harness.



BLIS Wiring Schematic - CAN Bus Circuit (Module Communications Network - Page 11)



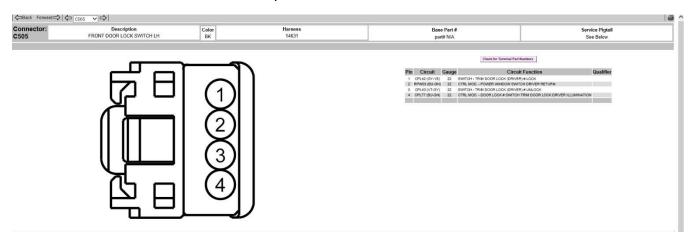


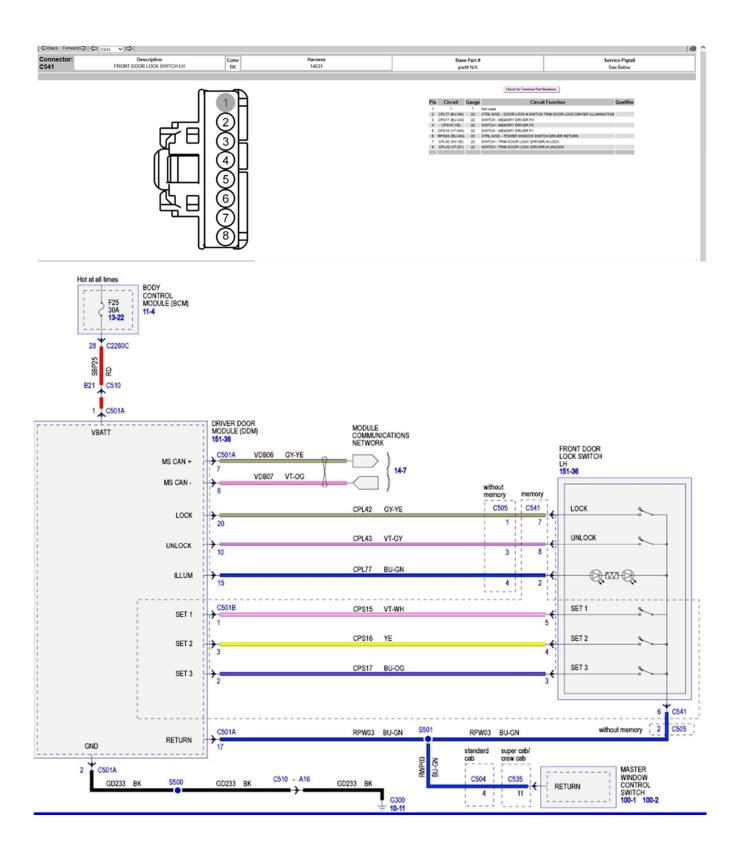
Connector	Terminal	Color	Circuit	Connector	Terminal
C405	4	GY-OG	VDB06	C327	1
C405	12	VT-OG	VDB07	C327	2
C405	5	GY-OG	VDB06	C327	3
C405	13	VT-OG	VDB07	C327	4

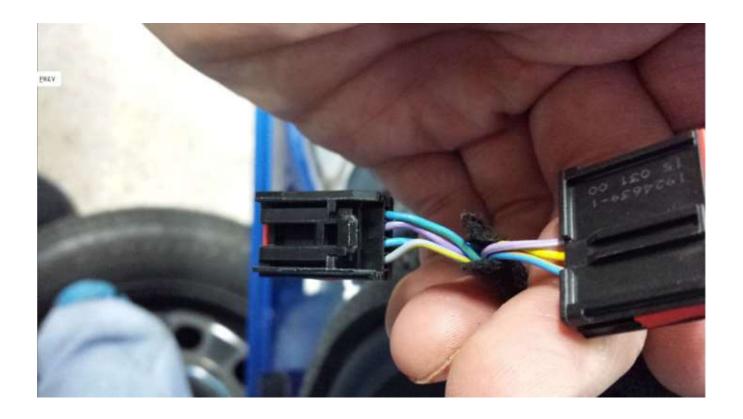
^{**}Note: Circuits 4 & 12 to 1 & 2 and 5 & 13 to 3 & 4 should each be a separate twisted pair of 22 gauge wires.

Hardware Changes:

- Install BLIS sensors & mounting brackets
- Install mirrors with BLIS capability
- Replace DDM & PDM
- Replace both door harnesses: required if vehicle is currently equipped with 8 pin mirror connectors. Suggest using FL3Z-14630-E and FL3Z-14631-A Lariat wo/Technology Package door harnesses which support: power adjust, heat, turn signals, power fold & telescope, memory, auto dimming (driver's side only), spot lamps, LED security approach lamps and BLIS:
 - XLT driver's side door harness has a 4 pin C505 connector at the door lock switch. Lariat driver's side door harness has 8 pin C541 connector at the door lock switch. 4 Wires from terminals #7, 6, 8 and 2 must be removed from C541 connector and transferred respectively to Pins 1, 2, 3 & 4 of C505 connector body. Refer to attached wiring diagrams. C541 8 pin door lock connector (with remaining 3 wires for memory circuit), exterior front door handle switch connectors (C543 & C634) and interior front door handle ambient lighting connectors (C573 & C649) won't be used and should be neatly secured out of harm's way.







Module Programming Using FORScan:

- IPC (Instrument Panel Cluster):
 - o 720-01-01 xxxx xxxx 7xxx (Enables Cross Traffic Alert Check Box in IPC)
 - o 720-03-01 6xxx xxxx (Enables Blind Spot Check Box in IPC)
- DDM & PDM (Driver's Door Module & Passenger's Door Module):
 - o Program new DDM & PDM with original As Built values that were saved prior to disassembly.
 - Make the following changes to DDM & PDM As Built values:
 - 740-04-01 x4xx xx (Driver's Door Module) Enables BLIS
 - 741-04-01 x4xx xx (Passenger's Door Module) Enables BLIS

SODL (Side Object Detection Left):

- o 7C4-01-01 9800 0065
- o 7C4-02-01 5D0A 0000 0035
- o 7C4-02-02 0000 14E3
- o 7C4-03-01 0B09 E3
- o 7C4-04-01 5F0A 39
- o 7C4-05-01 1E0A 0400 00FD
- o 7C4-05-02 2541 38
- o 7C4-06-01 1055 826E 80A7
- o 7C4-07-01 4060 080A 199E
- o 7C4-07-02 0FE3
- o 7C4-08-01 3146 5445 573B VIN # Specific
- o 7C4-08-02 3106 VIN # Specific
- o 7C4-09-01 4546 3946 4B2A VIN # Specific

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    7C4-09-02 441A - VIN # Specific
    7C4-10-01 3133 3337 34DE - VIN # Specific
    7C4-11-01 0046 0A23 0A5A - 2017 only
    7C4-11-02 11EF - 2017 only
    7C4-12-01 0603 E7 - 2017 only
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- SODR (Side Object Detection Right):
 - o 7C6-01-01 9800 0067
 - o 7C6-02-01 5D0A 0000 0037
 - o 7C6-02-02 0000 14E5
 - o 7C6-03-01 0B09 E5
 - o 7C6-04-01 5F0A 3B
 - o 7C6-05-01 1E0A 0400 00FF
 - o 7C6-05-02 2541 3A
 - o 7C6-06-01 1055 826E 80A9
 - o 7C6-07-01 4060 080A 19A0
 - o 7C6-07-02 0FE5
 - o 7C6-08-01 3146 5445 573D VIN # Specific
 - o 7C6-08-02 3108 VIN # Specific
 - o 7C6-09-01 4546 3946 4B2C VIN # Specific
 - o 7C6-09-02 441C VIN # Specific
 - o 7C6-10-01 3133 3337 34E0 VIN # Specific
 - o 7C6-11-01 0046 0A23 0A5C 2017 only
 - o 7C6-11-02 11F1 2017 only
 - o 7C6-12-01 0603 E9 2017 only
- Clear any DTCs that were created during programming of the modules and check for any DTCs that can't be cleared.