

## Rear Vision System – Tailgate Emblem Camera Factory NAV Display 2010-12 Ford F-150 and 2010-12 Super Duty (Kit part number 1008-6510)

### **Kit Contents:**

- Tailgate Emblem Mount with Camera
- Chassis Harness
- 1 bag containing: Ford Emblem
- 1 bag containing
  - 2 Tailgate emblem retainers
  - 2 Mounting Screws
- 1 bag containing:
  - 25 Wire Ties
  - Z-Tech (in a white bottle)
- 1 bag containing:
  - 3 Templates (along with these instructions)

### **Tools Required:**

- T30 Torx Driver
- 7mm, 8mm and 10mm Sockets
- Flat Blade Screwdriver
- Plastic Trim Removal tool
- Drill Bit and small Flat File (if needed)
- 1 inch and 1¾ inch Center Hole Saws
- Soldering Iron
- Small brush
- Round file (if needed)
- Deburring Tool

**NOTE: We strive to provide accurate and up-to-date installation instructions. The latest full color instructions, as well as an installation video by viewing the relevant portions of the full mirror kit (part number 1008-9520) can be accessed at [www.brandmotion.com](http://www.brandmotion.com)**

## PRE-INSTALLATION VEHICLE CHECKLIST

**Before beginning**, determine how the vehicle is equipped and check appropriate boxes:

Determine whether the vehicle has an opening in the center of pickup bed close to opposite of the opening in the bottom of the tailgate.

- Yes, skip Section 2.
- No, tailgate must be removed to drill an opening for the camera harness (refer to Section 2).

Determine whether the vehicle has the required three mounting holes behind the existing tailgate emblem. Refer to Steps 1 & 2 to remove inner tailgate panel, and use supplied 1008-9100-04 template to confirm whether the required holes are present in the panel.

- No, use supplied 1008-9100-04 template to position the holes to drill and/or cut the tailgate. If you do not wish to cut the tailgate, Brandmotion offers tailgate handle camera kits (1008-9505, black handle, and 1008-9506, chrome handle) that do not require cutting.
- Yes, proceed to Section 3.
- Check kit contents are complete against the list above.

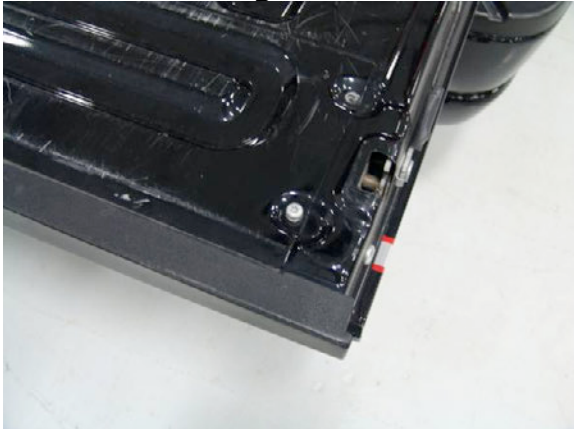
## TABLE OF CONTENTS

	<b>Pages</b>
<b>Section 1: Camera Mount Preparation</b>	<b>3-4</b>
<b>Section 2: Cut Pickup Bed Opening</b> (if required)	<b>4</b>
<b>Section 3: Camera Installation</b>	<b>5</b>
<b>Section 4: Chassis Harness Installation</b>	<b>6-12</b>
<b>Section 5: Wiring for NAV Radio Display</b>	<b>13</b>
<b>Section 6: Programming the NAV Radio Display</b>	<b>14-17</b>
<b>Section 7: Reference</b>	
<b>7A: Supplied Camera and Chassis Harness Pinouts</b>	<b>18</b>
<b>7B: Previous Model Year Ignition &amp; Reverse Locations</b>	<b>19-22</b>

## Section 1: Camera Mount Preparation

1. Lower tailgate and remove upper sheet metal cover by removing the eight screws with a T-30 Torx bit (Figure 1).

**Figure 1**



2. From inside the tailgate, verify whether two square mounting holes and a central opening approximately 1-3/4" inch in diameter are present behind the factory emblem. If not, it will be necessary to drill and square two holes for camera mount retainers and a cut an opening for the camera and harness (Steps 5-7).
3. Raise the tailgate. Taking care not to damage the body panel, insert plastic trim removal tool into the base of existing emblem to pry it off (Figure 2).

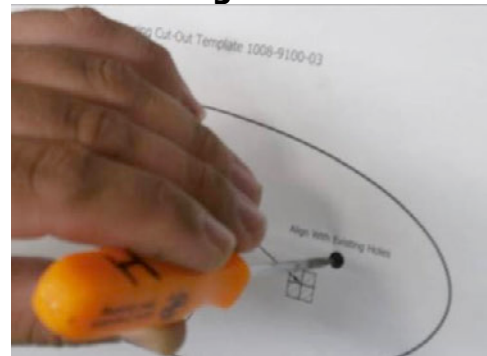
**Figure 2**



4. Remove any adhesive remaining on the tailgate.

5. If camera mounting holes and harness opening were present in the existing tailgate, proceed to Step 8. If not, align the supplied 1008-9100-04 template to the two existing emblem locating holes.
6. Mark and center punch the location for the two retaining clip holes and the camera and harness access opening (Figure 3).

**Figure 3**



7. Drill the two retaining clip holes with a 3/8 inch drill bit. Use a small flat file to square the drilled holes for the retaining clips (recommended method). Alternate method: Drill the two holes with a 1/8 inch drill bit and use sheet metal screws (not supplied in kit) to mount the camera harness. Apply supplied Z-Tech to drilled holes.
8. Insert retaining clips (Figure 4).

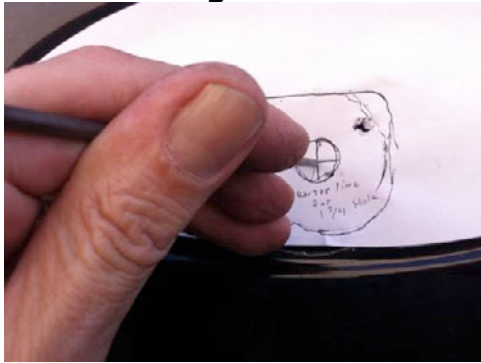
**Figure 4**



**Section 1: Camera Mount Preparation continued**

9. Drill a pilot hole for the camera mount. Using a 1 $\frac{3}{4}$  inch hole saw, cut the camera harness opening. Trial fit camera mount and file opening as necessary. (Figure 5).

**Figure 5**



10. Apply Z-Tech to camera harness opening.

**Section 2: Cut Pickup Bed Opening (if required)**

**Follow Steps 12 through 16 only if the vehicle does not have an opening in the bed above the license plate per Figure 6**

**Figure 6**



12. Prepare a clean, flat work surface for tailgate. Remove tailgate retaining straps. With an assistant, remove the tailgate by lifting away from lower tension pins, and set tailgate aside.
13. Measure 21 inches from the left edge and 1 $\frac{1}{4}$  inches from the top and make a temporary mark on the pickup bed (Figure 7).

**Figure 7**



14. Center punch the mark and drill a pilot hole. Next, cut a 1 inch opening with a hole saw (Figure 8).

**Figure 8**



15. Clean the rough edges of the opening with a deburring tool. Apply supplied Z-Tech with a small brush (Figure 9).

**Figure 9**



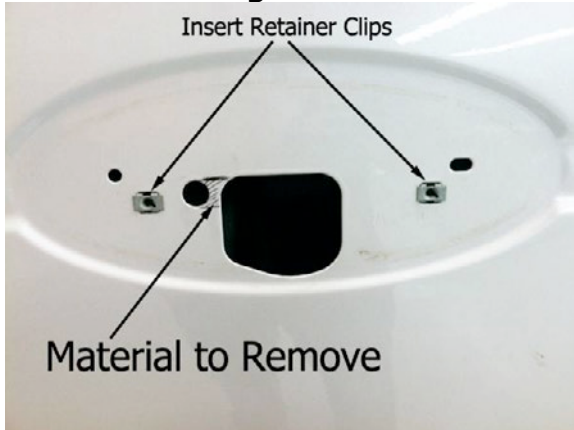
16. With the aid of an assistant, reinstall tailgate on tension pins and reattach straps.

## Section 3: Camera Installation

### 17. Mounting Camera

**17a.** Remove material between camera opening and round hole for harness clearance (apply supplied Z-Tech to any exposed bare metal with a small brush). Insert the two retainer clips (Figure 10).

**Figure 10**



**17b.** Route the camera harness through tailgate opening (Figure 10.5).

**Figure 10.5**



**18.** Run camera harness through opening in base of tailgate and seat grommet in pickup bed (Figure 11).

**Figure 11**



**19.** Using the two supplied 7mm screws, attach camera mount to tailgate. Press the supplied emblem into the camera mount.

## Section 4: Chassis Harness Installation

20. Remove the driver side sill plate with a trim tool (Figure 12).

**Figure 12**



21. Loosen driver side A-pillar molding with hands and then remove the driver side lower kick panel. (Figure 13)

**Figure 13**



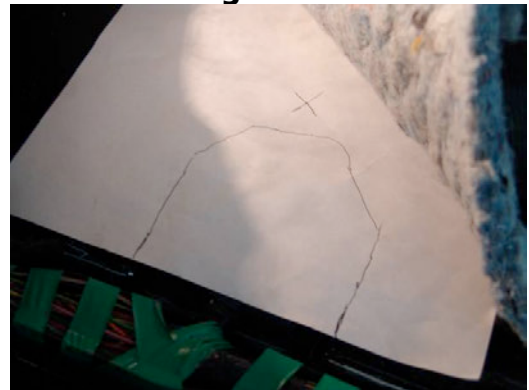
22. Pull back carpet in front of driver's seat. (Figure 14)

**Figure 14**



23. Secure Super Duty template number 1008-9100-01 (Figure 15) or secure F150 template number 1008-9100-02 over opening in front of driver's seat. (Figure 16).

**Figure 15**



**Figure 16**



24. Center punch and drill a pilot hole then drill a 1 inch hole with a hole saw.  
25. Clean hole with a deburring tool (Figure 17).

**Figure 17**



26. Apply supplied Z-Tech with a small brush (Figure 18).

**Figure 18**



27. Route the supplied chassis harness through the drilled opening and seat the grommet from the inside of vehicle (Figure 19).

**Figure 19**



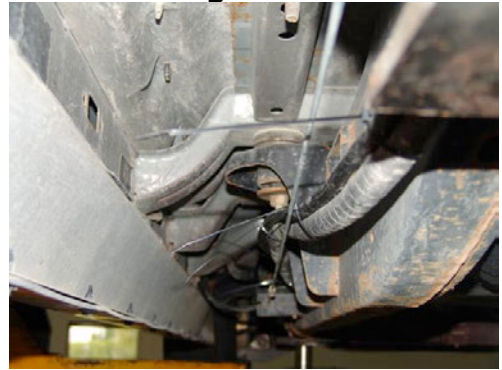
28. Route the exterior portion of the supplied chassis harness along existing vehicle chassis harness and over fuel tank. Using supplied tie wraps, secure the harness to existing wiring at 2 inch intervals (Figures 20 and 21).

**Figure 20**



## INSTALLATION INSTRUCTIONS

**Figure 21**



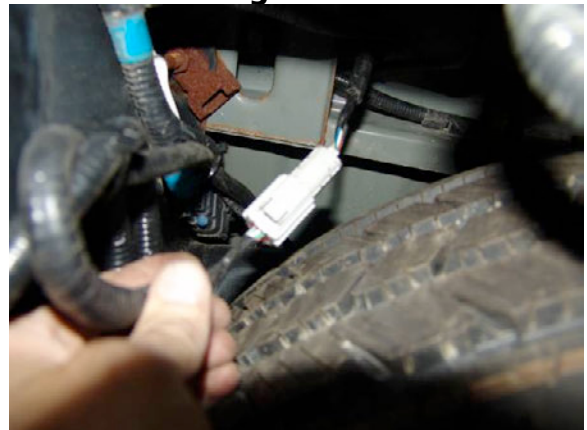
29. Loop any excess from the harness as shown and secure with tie wraps (Figure 22).

**Figure 22**



30. Plug the chassis harness into the camera harness installed earlier under the pickup bed (Figure 23).

**Figure 23**



- 31.** Remove the passenger side door sill plate with a trim tool and remove passenger side kick panel with hands, just disengaging the two clips from the sheet metal (Figure 24).

**Figure 24**



- 32.** Route the supplied chassis harness green, red, and black wires along the vehicle cross dash harness as shown in figure 25. Secure using wire ties wherever possible at 2 inch intervals.
- 33.** Splice the green reverse wire from the supplied chassis harness to the wire listed in Diagram A, on the next page, depending on your vehicle model. Solder and cover the connection with tape or heat shrink tubing.

## INSTALLATION INSTRUCTIONS

- 34.** Attach the black ground wire eyelet from the supplied chassis harness to sheet metal in the passenger side kick panel with a screw using an 8mm socket (Figure 25).

**Figure 25**



- 35.** Splice the red ignition wire from the supplied chassis harness to the wire listed in Diagram A, on the next page, depending on your vehicle model. Solder and cover the connection with heat shrink tubing.



## Section 4: Chassis Harness Installation continued

**Diagram A**

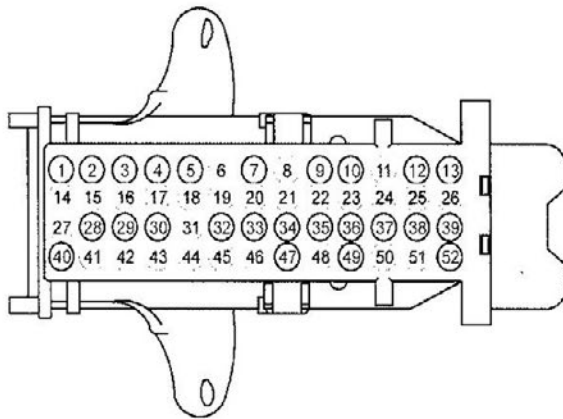
Chassis Harness Ignition & Reverse Locations								Supplied Chassis Harness
Model	Year(s)	Function	Connector	Dia. Page	Location	Pin	Color	Color
<b>F150</b>	<b>2012</b> (late production)	Ignition	C2280B	12	Right Kick (BCM)	35	Violet/Green	Red
		Reverse	C2280D	13	Right Kick (BCM)	13	Blue/White	Green
<b>Super Duty</b>	<b>2012</b> (late production)	Ignition	C2280B	14	Right Kick (BCM)	35	Violet/Green(Gas) Yellow/Orange (Diesel)	Red
		Reverse	C2280D	13	Right Kick (BCM)	13	Blue/White	Green

**NOTE:** For previous years pinouts, please refer to Section 7B.

## Section 4: Chassis Harness Installation continued

### Ignition Connector C2280B – 2012 late production F150

Connector:	Description	Color	Harness	Base Part #	Service Pigtail
<b>C2280B</b>	BODY CONTROL MODULE (BCM)	BK	14401	14B207	Not Available

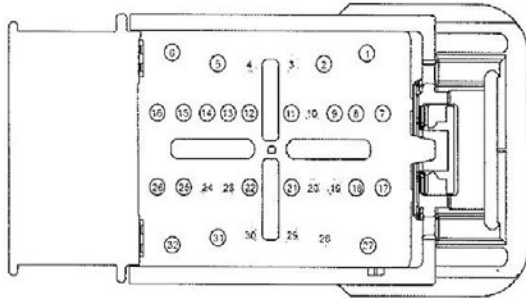


Pin	Circuit	Gauge	Circuit Function	Qualifier
1	SBP09 (RD)	22	FUSE - 9 OR CIRCUIT BREAKER	
2	CBP34 (VT-BN)	22	FUSE - 34 OR CIRCUIT BREAKER	
3	CBP41 (BU)	22	FUSE - 41 OR CIRCUIT BREAKER	SVT Raptor
3	CBP41 (BU)	22	FUSE - 41 OR CIRCUIT BREAKER	
4	CBP31 (BU-OG)	20	FUSE - 31 OR CIRCUIT BREAKER	
5	CBP42 (GN)	26	FUSE - 42 OR CIRCUIT BREAKER	
6	*	*	Not Used	
7	CBP35 (YE-GY)	22	FUSE - 35 OR CIRCUIT BREAKER	
8	*	*	Not Used	
9	CBP36 (BU-BN)	20	FUSE - 36 OR CIRCUIT BREAKER	
10	CBP37 (WH)	22	FUSE - 37 OR CIRCUIT BREAKER	
11	*	*	Not Used	
12	SBP26 (YE-RD)	22	FUSE - 26 OR CIRCUIT BREAKER	
13	CBP38 (GY-BU)	22	FUSE - 38 OR CIRCUIT BREAKER	
14	*	*	Not Used	
15	*	*	Not Used	
16	*	*	Not Used	
17	*	*	Not Used	
18	*	*	Not Used	
19	*	*	Not Used	
20	*	*	Not Used	
21	*	*	Not Used	
22	*	*	Not Used	
23	*	*	Not Used	
24	*	*	Not Used	
25	*	*	Not Used	
26	*	*	Not Used	
27	*	*	Not Used	
28	CCB08 (VT-WH)	22	SWITCH - BRAKE PEDAL POSITION (BPP) NORMAL OPEN	
29	CDC34 (WH-OG)	20	SWITCH - IGNITION # RUN; START	
30	VLF14 (BU-BN)	22	SENSOR - AUTOLAMP DAY/NIGHT	
30	VLF14 (BU)	26	SENSOR - AUTOLAMP DAY/NIGHT	with automatic A/C
31	*	*	Not Used	
32	CLS32 (BN)	26	SWITCH - HAZARD	
33	CRH04 (VT)	26	CTRL MOD. - RELAY HORN	
34	CDC30 (BU-GY)	22	SWITCH - IGNITION # KEY IN	
35	CDC33 (VT-GN)	22	SWITCH - IGNITION # RUN; ACCESSORY	
36	VRT23 (VT-GY)	22	TRANSCEIVER - PASSIVE ANTI THEFT (IMMOBILIZER) # RX DATA (RX_IN)	
37	VRT24 (YE-OG)	22	TRANSCEIVER - PASSIVE ANTI THEFT (IMMOBILIZER) # TX CNTRL	
38	VDB06 (GY-OG)	22	CONNECTOR - DIAGNOSTIC # CAN BUS MEDIUM SPEED HIGH	
39	VDB07 (VT-OG)	22	CONNECTOR - DIAGNOSTIC # CAN BUS MEDIUM SPEED LOW	
40	VLN04 (VT-GY)	22	CTRL MOD. - IP/SWITCH ILLUMINATION	
41	*	*	Not Used	
42	*	*	Not Used	
43	*	*	Not Used	
44	*	*	Not Used	
45	*	*	Not Used	
46	*	*	Not Used	
47	CDC35 (BU-WH)	22	SWITCH - IGNITION # START	
48	*	*	Not Used	
49	CET53 (BU-OG)	20	CTRL MOD. - POWERTRAIN # BRAKE SHIFT INTERLOCK	
50	*	*	Not Used	
51	*	*	Not Used	
52	VDN01 (BU-WH)	20	CTRL MOD. - LIN BUS # SPDJB 1	
52	VDN01 (BU-WH)	22	CTRL MOD. - LIN BUS # SPDJB 1	with inverter module

## Section 4: Chassis Harness Installation continued

### Reverse Connector C2280D – 2012 late production F150 and Super Duty

Connector:	Description	Color	Harness	Base Part #	Service Pigtail
<b>C2280D</b>	BODY CONTROL MODULE (BCM)	BK	14A005	14B207	Not Available

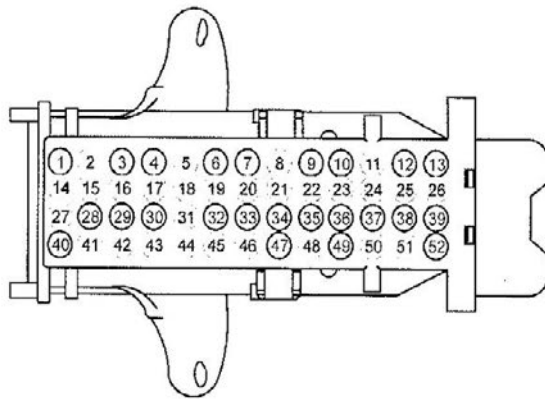


Pin	Circuit	Gauge	Circuit Function	Qualifier
1	SBP03 (BU-RD)	14	FUSE - 3 OR CIRCUIT BREAKER	
2	SBP05 (GY-RD)	16	FUSE - 5 OR CIRCUIT BREAKER	w/memory
3	*	*	Not Used	
4	*	*	Not Used	
5	SBP02 (YE-RD)	18	FUSE - 2 OR CIRCUIT BREAKER	
6	SBP01 (RD)	14	FUSE - 1 OR CIRCUIT BREAKER	
7	CBP33 (WH-BN)	20	FUSE - 33 OR CIRCUIT BREAKER	heated seats
7	CBP33 (WH-BN)	22	FUSE - 33 OR CIRCUIT BREAKER	rear heated seats
8	CBP34 (VT-BN)	22	FUSE - 34 OR CIRCUIT BREAKER	
9	SBP21 (GY-RD)	18	FUSE - 21 OR CIRCUIT BREAKER	ambient lighting
10	*	*	Not Used	
11	SBP07 (WH-RD)	22	FUSE - 7 OR CIRCUIT BREAKER	offline
11	SBP07 (WH-RD)	20	FUSE - 7 OR CIRCUIT BREAKER	online
12	CLS18 (GY-BN)	20	CTRL MOD. - STOP/TURN LEFT (INBOARD)	
13	CLS28 (BU-WH)	18	CTRL MOD. - RELAY REVERSE LAMP CONTROL (RLC)	
14	CLS52 (BN)	20	CTRL MOD. - STOP/TURN RIGHT MIDDLE	
15	CLS19 (VT-OG)	18	CTRL MOD. - STOP/TURN RIGHT (INBOARD)	
16	GD139 (BK-YE)	16	GROUND - COWL SIDE/PILLAR A RIGHT # 2ND POINT (6L2T)	
17	CBP32 (GN-VT)	18	FUSE - 32 OR CIRCUIT BREAKER	
18	CBP40 (YE-GN)	18	FUSE - 40 OR CIRCUIT BREAKER	
19	*	*	Not Used	
20	*	*	Not Used	
21	CPL51 (BU-GN)	18	CTRL MOD. - DOOR LOCK # DRIVER UNLOCK	
22	CLN09 (YE-GN)	22	RELAY - BATTERY SAVER (E.G SWITCH OFF INTERIOR LIGHTING)	
23	*	*	Not Used	
24	*	*	Not Used	
25	GD139 (BK-YE)	20	GROUND - COWL SIDE/PILLAR A RIGHT # 2ND POINT (6L2T)	
26	CPL11 (GY-BN)	16	CTRL MOD. - DOOR LOCK # ALL LOCK	
27	CBP01 (BU)	12	FUSE - 48 OR CIRCUIT BREAKER	
28	*	*	Not Used	
29	*	*	Not Used	
30	*	*	Not Used	
31	CPL52 (VT-GY)	18	CTRL MOD. - DOOR LOCK # PASSENGER DOORS UNLOCK (ALL EXCLUDING DRIVER)	
31	CPL52 (VT-GY)	16	CTRL MOD. - DOOR LOCK # PASSENGER DOORS UNLOCK (ALL EXCLUDING DRIVER)	Super Crew
32	SBP19 (BU-RD)	14	FUSE - 19 OR CIRCUIT BREAKER	SONY sound

## Section 4: Chassis Harness Installation continued

### Ignition Connector C2280B – 2012 late production Super Duty

Connector:	Description	Color	Harness	Base Part #	Service Pigtail
<b>C2280B</b>	BODY CONTROL MODULE (BCM)	BK	14401	15604	Not Available

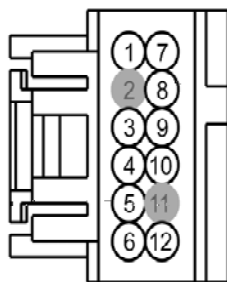


Pin	Circuit	Gauge	Circuit Function	Qualifier
1	SBP09 (RD)	20	FUSE - 9 OR CIRCUIT BREAKER	
2	*	*	Not Used	
3	CBP41 (BU)	22	FUSE - 41 OR CIRCUIT BREAKER	
4	CBP31 (BU-OG)	22	FUSE - 31 OR CIRCUIT BREAKER	
5	*	*	Not Used	
6	CBP44 (VT)	22	FUSE - 44 OR CIRCUIT BREAKER	
7	CBP35 (YE-GY)	22	FUSE - 35 OR CIRCUIT BREAKER	
8	*	*	Not Used	
9	CBP36 (BU-BN)	20	FUSE - 36 OR CIRCUIT BREAKER	
10	CBP37 (WH)	22	FUSE - 37 OR CIRCUIT BREAKER	
11	*	*	Not Used	
12	SBP26 (YE-RD)	22	FUSE - 26 OR CIRCUIT BREAKER	
13	CBP38 (GY-BU)	22	FUSE - 38 OR CIRCUIT BREAKER	with single CD / base audio
14	*	*	Not Used	
15	*	*	Not Used	
16	*	*	Not Used	
17	*	*	Not Used	
18	*	*	Not Used	
19	*	*	Not Used	
20	*	*	Not Used	
21	*	*	Not Used	
22	*	*	Not Used	
23	*	*	Not Used	
24	*	*	Not Used	
25	*	*	Not Used	
26	*	*	Not Used	
27	*	*	Not Used	
28	CCB08 (VT-WH)	22	SWITCH - BRAKE PEDAL POSITION (BPP) NORMAL OPEN	
29	CDC62 (WH-VT)	22	CTRL MOD. - IGNITION ACCESSORY SHUTDOWN # B+	diesel
29	CDC34 (WH-OG)	18	SWITCH - IGNITION # RUN; START	gasoline
30	VL14 (BU-BN)	22	SENSOR - AUTOLAMP DAY/NIGHT	manual a/c
30	VL14 (BU-BN)	20	SENSOR - AUTOLAMP DAY/NIGHT	automatic a/c
31	*	*	Not Used	
32	CLS32 (BN-YE)	22	SWITCH - HAZARD	
33	CRH04 (VT-GN)	22	CTRL MOD. - RELAY HORN	
34	CDC30 (BU-GY)	22	SWITCH - IGNITION # KEY IN	
35	CDC63 (YE-OG)	22	CTRL MOD. - IGNITION ACCESSORY SHUTDOWN # RUN	diesel
35	CDC33 (VT-GN)	22	SWITCH - IGNITION # RUN; ACCESSORY	gasoline
36	VRT24 (YE-OG)	22	TRANSCEIVER - PASSIVE ANTI THEFT (IMMOBILIZER) # TX CNTRL	
37	VRT23 (VT-GY)	22	TRANSCEIVER - PASSIVE ANTI THEFT (IMMOBILIZER) # RX DATA (RX_IN)	
38	VDB06 (GY-OG)	22	CONNECTOR - DIAGNOSTIC # CAN BUS MEDIUM SPEED HIGH	
39	VDB07 (VT-OG)	22	CONNECTOR - DIAGNOSTIC # CAN BUS MEDIUM SPEED LOW	
40	VLN04 (VT-GY)	22	CTRL MOD. - IP/SWITCH ILLUMINATION	
41	*	*	Not Used	
42	*	*	Not Used	
43	*	*	Not Used	
44	*	*	Not Used	
44	*	*	Not Used	
45	*	*	Not Used	
46	*	*	Not Used	
47	CDC35 (BU-WH)	22	SWITCH - IGNITION # START	
48	*	*	Not Used	
49	CET53 (BU-OG)	22	CTRL MOD. - POWERTRAIN # BRAKE SHIFT INTERLOCK	
50	*	*	Not Used	
51	*	*	Not Used	
52	VDN01 (BU-WH)	22	CTRL MOD. - LIN BUS # SPDJB 1	

## Section 5: Wiring for NAV Radio Display

- 36. Gain access to radio display LCD by disassembling center dash area.
- 37. Route pinned brown and white wires to the radio display LCD connector.
- 38. For F-150, insert White (Video +) into LCD connector C2123 cavity 3. Insert Brown (Video -) into LCD connector C2123 Cavity 9 (see diagram below). If wires exist in either cavity, remove and isolate.

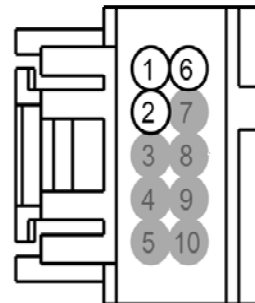
**F-150 Pinout  
Connector C2123**



Pin	Circuit	Gauge	Circuit Function	Qualifier
1	SBP09 (RD)	22	FUSE - 9 OR CIRCUIT BREAKER	with navigation
2	*	*	Not Used	
3	VMP19 (WH-GN)	20	CAMERA - PARKING AID REAR VIDEO	with reverse camera and navigation
4	CMN26 (BU-OG)	22	DISPLAY - NAVIGATION # RECEIVE	with navigation
4	VDB06 (GY-OG)	20	CONNECTOR - DIAGNOSTIC # CAN BUS MEDIUM SPEED HIGH	without navigation
5	VDB07 (VT-OG)	20	CONNECTOR - DIAGNOSTIC # CAN BUS MEDIUM SPEED LOW	without navigation
5	CMN23 (WH-BU)	22	CTRL MOD. - NAVIGATION # DISPLAY ENABLE	with navigation
6	VMN20 (BN-VT)	20	CTRL MOD. - DVD VIDEO +	with navigation
7	GD114 (BK-BU)	20	GROUND - CROSS CAR BEAM	with navigation
8	GD133 (BK)	20	GROUND - PILLAR A LEFT	without navigation
9	RMP19 (BN-VT)	20	CAMERA - PARKING AID REAR VIDEO	with reverse camera and navigation
10	CMN24 (GY-VT)	22	CTRL MOD. - NAVIGATION # DISPLAY TRANSMIT	with navigation
11	*	*	Not Used	
12	RMN20 (WH-GN)	20	CTRL MOD. - DVD VIDEO -	with navigation
12	SBP09 (RD)	22	FUSE - 9 OR CIRCUIT BREAKER	without navigation

- 39. For Super Duty, insert White (Video +) into radio connector C240B cavity 1. Insert Brown (Video -) into radio connector C240B Cavity 6 (see diagram below). If wires exist in either cavity, remove and isolate.

**Super Duty Pinout  
Connector C240B**



Pin	Circuit	Gauge	Circuit Function	Qualifier
1	VMP19 (WH-GN)	22	CAMERA - PARKING AID REAR VIDEO +	video camera with navigation
2	DMP19 (*)	20	CAMERA - PARKING AID REAR VIDEO	video camera with navigation
3	*	*	Not Used	
4	*	*	Not Used	
5	*	*	Not Used	
6	RMP19 (BN-VT)	22	CAMERA - PARKING AID REAR VIDEO -	video camera with navigation
7	*	*	Not Used	
8	*	*	Not Used	
9	*	*	Not Used	
10	*	*	Not Used	

- 40. Re-install radio and reassemble radio cavity area.

## Section 6: Programming the NAV Radio Display

41. Turn on rear monitor input using a Ford IDS tool as well as As-Built Data.
42. Connect the IDS and identify the vehicle as normal.
43. From Toolbox icon, select Module Programming and press the check mark.
44. Select Programmable Module Installation.
45. Select ACM.
46. Follow the on-screen instructions, turn the ignition key to the OFF position, and press the check mark and enter As-Built Data corresponding to vehicle with exact options (see relevant data sheets on the page and pages 17, 18, or 19 depending on your vehicle year and model). Do not enter the VIN number of the truck you are working on.
47. The IDS downloads the data into the new module and displays Module Configuration Complete.
48. Start vehicle with foot on brake and shift into reverse to check camera operation. If all of the connections are correct, you will see an image on the NAV display.
49. Shut off vehicle. Reinstall all previously removed interior and exterior parts.

### 2010 F-150 Options

#### BODY STYLE: 2010 F-150 4X2 AND 4X4

#### Lariat

ACM	<b>727-01-01</b>	A120	8CA5	91B3
ACM	<b>727-01-02</b>	2080	D1	
ACM	<b>727-02-01</b>	5B8C		
ACM	<b>727-03-01</b>	1446		
ACM	<b>727-04-01</b>	0000	270C	1F85
ACM	<b>727-04-02</b>	062D	67	
ACM	<b>727-05-01</b>	0034		
ACM	<b>727-06-01</b>	073C		
ACM	<b>727-07-01</b>	0007	2F57	5B1E
ACM	<b>727-07-02</b>	76AD		
ACM	<b>727-08-01</b>	000A	3335	5C05
ACM	<b>727-08-02</b>	649C		
ACM	<b>727-09-01</b>	000A	3335	5C06
ACM	<b>727-09-02</b>	649D		
ACM	<b>727-10-01</b>	080E	3C01	16A8
ACM	<b>727-10-02</b>	1F01	161F	4BE0
ACM	<b>727-10-03</b>	090D	090D	33A0
ACM	<b>727-10-04</b>	7308	0ECB	

**Section 6: Programming the NAV Radio Display continued**

**2011 F-150 Options**

**BODY STYLE: F-150 SUPERCREW 4X4 Lariat**  
**RADIO: AM/FM STRO/CD/DVD/NAV SYSTEM**  
**SYNC VERSION: V3**

ACM	<b>727-01-01</b>	A120	CEA5	51B5	<a href="#">Inst</a>
ACM	<b>727-01-02</b>	29BC	8096		
ACM	<b>727-02-01</b>	5B8C			
ACM	<b>727-03-01</b>	1446			
ACM	<b>727-04-01</b>	0000	270C	1F85	
ACM	<b>727-04-02</b>	062D	67		
ACM	<b>727-05-01</b>	0034			
ACM	<b>727-06-01</b>	073C			
ACM	<b>727-07-01</b>	0007	2F57	5B1E	
ACM	<b>727-07-02</b>	76AD			
ACM	<b>727-08-01</b>	000A	3335	5C05	
ACM	<b>727-08-02</b>	649C			
ACM	<b>727-09-01</b>	000A	3335	5C06	
ACM	<b>727-09-02</b>	649D			
ACM	<b>727-10-01</b>	080E	3C01	16A8	
ACM	<b>727-10-02</b>	1F01	161F	4BE0	
ACM	<b>727-10-03</b>	090D	090D	33A0	
ACM	<b>727-10-04</b>	7308	0ECB		

**BODY STYLE: F-150 SUPERCREW 4X2 Platinum**  
**RADIO: AM/FM STRO/CD/DVD/NAV SYSTEM**  
**SYNC VERSION: V3**

ACM	<b>727-01-01</b>	A120	CEA5	51B5	<a href="#">Inst</a>
ACM	<b>727-01-02</b>	29BC	8096		
ACM	<b>727-02-01</b>	5B8C			
ACM	<b>727-03-01</b>	1446			
ACM	<b>727-04-01</b>	0000	270C	1F85	
ACM	<b>727-04-02</b>	062D	67		
ACM	<b>727-05-01</b>	0034			
ACM	<b>727-06-01</b>	073C			
ACM	<b>727-07-01</b>	0007	2F57	5B1E	
ACM	<b>727-07-02</b>	76AD			
ACM	<b>727-08-01</b>	000A	3335	5C05	
ACM	<b>727-08-02</b>	649C			
ACM	<b>727-09-01</b>	000A	3335	5C06	
ACM	<b>727-09-02</b>	649D			
ACM	<b>727-10-01</b>	080E	3C01	16A8	
ACM	<b>727-10-02</b>	1F01	161F	4BE0	
ACM	<b>727-10-03</b>	090D	090D	33A0	
ACM	<b>727-10-04</b>	7308	0ECB		

**Section 6: Programming the NAV Radio Display continued**

**2011 F-150 Options continued**

**BODY STYLE: F-150 SUPERCREW 4X2**

**Harley Davidson**

**RADIO: AM/FM STRO/CD/DVD/NAV SYSTEM**

**SYNC VERSION: V3**

ACM	<b>727-01-01</b>	A120	CEA5	51B5		<a href="#">Inst</a>
ACM	<b>727-01-02</b>	29BC	8096			
ACM	<b>727-02-01</b>	5B8C				
ACM	<b>727-03-01</b>	1446				
ACM	<b>727-04-01</b>	0000	270C	1F85		
ACM	<b>727-04-02</b>	062D	67			
ACM	<b>727-05-01</b>	0034				
ACM	<b>727-06-01</b>	0A3F				
ACM	<b>727-07-01</b>	0007	2F57	5B1E		
ACM	<b>727-07-02</b>	76AD				
ACM	<b>727-08-01</b>	000A	3335	5C05		
ACM	<b>727-08-02</b>	649C				
ACM	<b>727-09-01</b>	000A	3335	5C06		
ACM	<b>727-09-02</b>	649D				
ACM	<b>727-10-01</b>	081A	3C02	16B5		
ACM	<b>727-10-02</b>	1F02	161F	4BE1		
ACM	<b>727-10-03</b>	0913	0913	33AC		
ACM	<b>727-10-04</b>	7308	1AD7			

**BODY STYLE: F-150 SUPERCREW 4X4 RAPTOR**

**RADIO: AM/FM STRO/CD/DVD/NAV SYSTEM**

**SYNC VERSION: V3**

ACM	<b>727-01-01</b>	A120	CE25	5135		<a href="#">Inst</a>
ACM	<b>727-01-02</b>	29BC	8096			
ACM	<b>727-02-01</b>	5B8C				
ACM	<b>727-03-01</b>	1446				
ACM	<b>727-04-01</b>	0000	270C	1F85		
ACM	<b>727-04-02</b>	062D	67			
ACM	<b>727-05-01</b>	0034				
ACM	<b>727-06-01</b>	0439				
ACM	<b>727-07-01</b>	0007	2F57	5B1E		
ACM	<b>727-07-02</b>	76AD				
ACM	<b>727-08-01</b>	000A	3335	5C05		
ACM	<b>727-08-02</b>	649C				
ACM	<b>727-09-01</b>	000A	3335	5C06		
ACM	<b>727-09-02</b>	649D				
ACM	<b>727-10-01</b>	080E	3C01	16A8		
ACM	<b>727-10-02</b>	1F01	161F	4BE0		
ACM	<b>727-10-03</b>	090D	090D	33A0		
ACM	<b>727-10-04</b>	7308	0ECB			



## Section 6: Programming the NAV Radio Display continued

### 2011 Super Duty Options

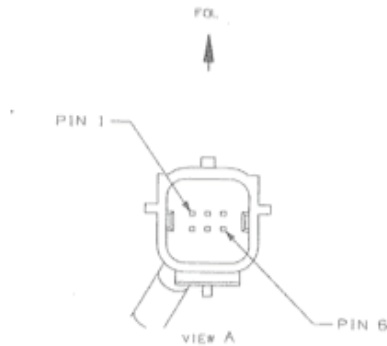
BODY STYLE: F-250 CREW CAB 4X4  
RADIO: HD AM/FM DVD SDARS W/VA NAVGTN  
SYNC VERSION: V3

ACM	<b>727-01-01</b>	2140	CEA8	565D	<a href="#">Inst</a>
ACM	<b>727-01-02</b>	0DB8	00F6		
ACM	<b>727-02-01</b>	2E5F			
ACM	<b>727-03-01</b>	1446			
ACM	<b>727-04-01</b>	0000	230C	2183	
ACM	<b>727-04-02</b>	062D	67		
ACM	<b>727-05-01</b>	063A			
ACM	<b>727-06-01</b>	0C41			
ACM	<b>727-07-01</b>	0007	2F57	5B1E	
ACM	<b>727-07-02</b>	76AD			
ACM	<b>727-08-01</b>	000A	3335	5C05	
ACM	<b>727-08-02</b>	649C			
ACM	<b>727-09-01</b>	000A	3335	5C06	
ACM	<b>727-09-02</b>	649D			
ACM	<b>727-10-01</b>	080E	3C01	16A8	
ACM	<b>727-10-02</b>	1F01	161F	4BE0	
ACM	<b>727-10-03</b>	090D	090D	33A0	
ACM	<b>727-10-04</b>	7308	0ECB		

BODY STYLE: F-350 CREW CAB 4X4 Lariat  
RADIO: HD AM/FM DVD SDARS W/VA NAVGTN  
SYNC VERSION: V3

ACM	<b>727-01-01</b>	2140	CEA8	565D	<a href="#">Inst</a>
ACM	<b>727-01-02</b>	0DB8	F6		
ACM	<b>727-02-01</b>	2E5F			
ACM	<b>727-03-01</b>	1446			
ACM	<b>727-04-01</b>	0000	230C	2183	
ACM	<b>727-04-02</b>	062D	67		
ACM	<b>727-05-01</b>	063A			
ACM	<b>727-06-01</b>	0C41			
ACM	<b>727-07-01</b>	0007	2F57	5B1E	
ACM	<b>727-07-02</b>	76AD			
ACM	<b>727-08-01</b>	000A	3335	5C05	
ACM	<b>727-08-02</b>	649C			
ACM	<b>727-09-01</b>	000A	3335	5C06	
ACM	<b>727-09-02</b>	649D			
ACM	<b>727-10-01</b>	080E	3C01	16A8	
ACM	<b>727-10-02</b>	1F01	161F	4BE0	
ACM	<b>727-10-03</b>	090D	090D	33A0	
ACM	<b>727-10-04</b>	7308	0ECB		

## Section 7A: Reference – Supplied Camera & Chassis Harness Pinouts



PIN #	FUNCTION	CAMERA HARNESS COLOR	CHASSIS HARNESS COLOR
1	Video (+)	White	White
2	Shield	Blue	Blue
3	Reverse	Green	Green
4	Video (-)	Brown	Brown
5	Ground	Black	Black
6	Ignition	Red	Red

### Loose wires provided in the Supplied Chassis Harness

Function	Wire color
Ground (-)	Black
Reverse signal 12V	Green
Ignition 12V	Red

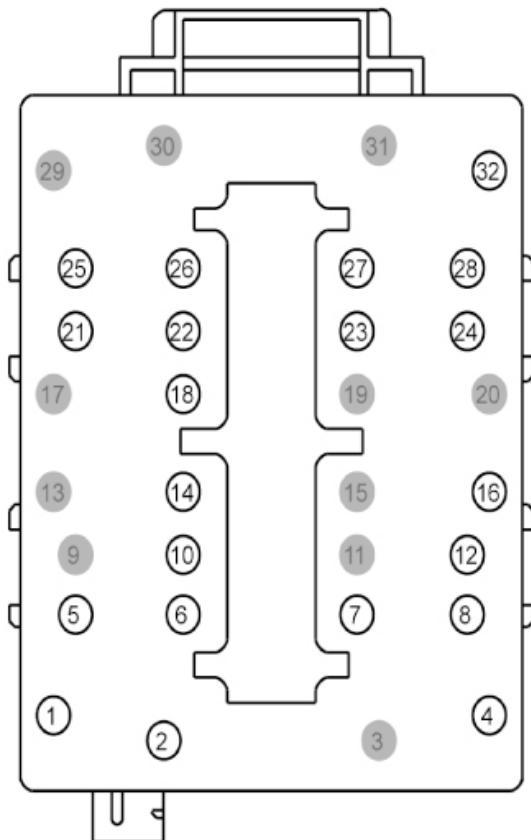
## Section 7B: Reference – Previous Model Year Ignition & Reverse Locations

								Supplied Chassis Harness
Model	Year	Function	Connector	Dia. Page	Location	Pin	Color	Color
<b>F150</b>	<b>2010-2012</b> (early production)	Ignition	C2280D	25	Right Kick	16	Blue or Blue/Red	Red
		Reverse	C215	26	Right Kick	6	Blue	Green
		Reverse	C264	27	Right Kick SJB	12	Black / Pink	Green
<b>Super Duty</b>	<b>2010-2012</b> (early production)	Ignition	C264	28	Right Kick	2	Blue	Red
		Reverse	C264	28	Right Kick	10	Green/Blue	Green

## Section 7B: Reference – Previous Model Year Ignition & Reverse Locations continued

### Ignition Connector C2280D – 2010-2012 (early production) F150

Connector:	Description	Color	Harness	Base Part #	Service Pigtail
<b>C2280D</b>	SMART JUNCTION BOX (SJB)	BK	14A005	14B207	



Pin	Circuit	Gauge	Circuit Function	Qualifier
1	SBP01 (RD)	16	FUSE - 1 OR CIRCUIT BREAKER	
2	SBP18 (YE-RD)	16	FUSE - 18 OR CIRCUIT BREAKER	
3	*	*	Not Used	
4	SBP38 (BN-RD)	16	FUSE - 38 OR CIRCUIT BREAKER	
5	CBP32 (GN-VT)	20	FUSE - 32 OR CIRCUIT BREAKER	
6	CPL11 (GY-BN)	16	CTRL MOD. - DOOR LOCK # ALL LOCK	
7	GD139 (BK-YE)	16	GROUND - PILLAR A RIGHT # 2ND STUD	
8	GD139 (BK-YE)	20	GROUND - PILLAR A RIGHT # 2ND STUD	
9	*	*	Not Used	
10	SBP13 (GY-RD)	20	FUSE - 13 OR CIRCUIT BREAKER	
11	*	*	Not Used	
12	GD139 (BK-YE)	20	GROUND - PILLAR A RIGHT # 2ND STUD	
13	*	*	Not Used	
14	CBP46 (WH-BU)	20	FUSE - 46 OR CIRCUIT BREAKER	
15	*	*	Not Used	
16	CBP41 (BU)	18	FUSE - 41 OR CIRCUIT BREAKER	
17	*	*	Not Used	
18	SBP12 (GN-RD)	18	FUSE - 12 OR CIRCUIT BREAKER	All others
18	SBP12 (GN-RD)	20	FUSE - 12 OR CIRCUIT BREAKER	If equipped
19	*	*	Not Used	
20	*	*	Not Used	
21	CLN09 (YE-GN)	18	RELAY - BATTERY SAVER (E.G. SWITCH OFF INTERIOR LIGHTING)	
22	CBP43 (GY)	20	FUSE - 43 OR CIRCUIT BREAKER	
23	CBP35 (YE-BU)	20	FUSE - 35 OR CIRCUIT BREAKER	
24	GD139 (BK-YE)	20	GROUND - PILLAR A RIGHT # 2ND STUD	
25	CLS18 (GY-BN)	16	CTRL MOD. - STOP/TURN LEFT	
26	CLS19 (VT-OG)	16	CTRL MOD. - STOP/TURN RIGHT	
27	CPL52 (VT-GY)	16	CTRL MOD. - DOOR LOCK # PASSENGER DOORS UNLOCK (ALL EXCLUDING DRIVER)	
28	CPL51 (BU-GN)	18	CTRL MOD. - DOOR LOCK # DRIVER UNLOCK	
29	*	*	Not Used	
30	*	*	Not Used	
31	*	*	Not Used	
32	CBP47 (GN-BU)	12	FUSE - 47 OR CIRCUIT BREAKER	

## Section 7B: Reference – Previous Model Year Ignition & Reverse Locations continued

### Reverse Connector C215 – 2010-2012 (early production) F150

**Inline  
C215**

**Description**  
Inline

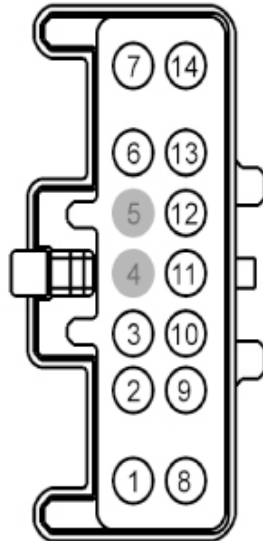
**Color**  
GY

**Base Part #**

**Service Pigtail**

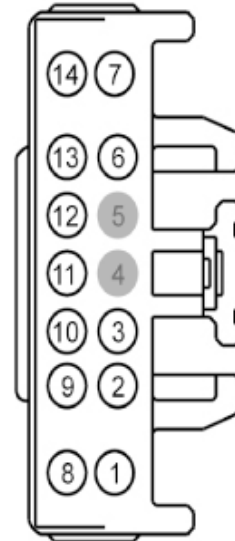
**MALE**

Harness 14A005



**FEMALE**

Harness 12A581



Pin	Circuit	Gauge	Qualifier
1	SBB11 (BU-RD)	12	
2	CLS19 (VT-OG)	16	
3	SBB72 (VT-RD)	16	
4	*	*	
5	*	*	
6	CET47 (BU)	20	
7	SBB14 (BN-RD)	14	
8	SBB69 (GY-RD)	12	14A005
8	SBB69 (GY-RD)	14	12A581
9	CMC25 (WH-VT)	20	12A581
9	CMC25 (WH-VT)	22	14A005
10	VCA23 (BU-WH)	20	
11	VCA24 (GN-OG)	20	
12	CLS25 (YE-VT)	18	14A005
12	CLS25 (YE-VT)	18	12A581 - Early production
12	CLS25 (YE-VT)	20	12A581 - Late production
13	CLS18 (GY-BN)	16	
14	CRD06 (BN-YE)	12	

## Section 7B: Reference – Previous Model Year Ignition & Reverse Locations continued

### Ignition and Reverse Connector C264 – 2010-2012 (early production) Super Duty

**Inline  
C264**

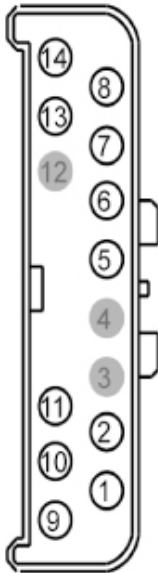
**Description**  
Inline

**Color**  
BK

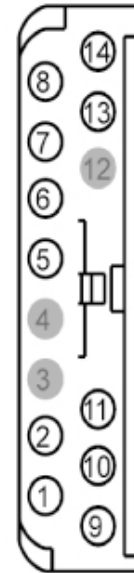
**Base Part #**

**Service Pigtail**

**MALE**  
Harness 14A005



**FEMALE**  
Harness 17K745



Pin	Circuit	Gauge	Qualifier
1	DMP19 (BK)	20	With Video Camera
2	CBP41 (BU)	20	
3	*	*	
4	*	*	
5	VMC30 (BU-GY)	20	
6	VMC31 (GY-BU)	20	
7	VMP19 (WH-GN)	20	With Video Camera
8	RMP19 (BN-VT)	20	With Video Camera
9	RMM13 (BU)	20	MIC
10	CLS10 (GN-BN)	18	MIC
11	VMM13 (YE-GN)	20	
12	*	*	
13	DMM13 (BK)	18	
14	GD133 (BK)	20	