

Rear Vision System – Tailgate Emblem Camera Aftermarket Display 2009-Current Ford F-150 and 2010-Current Super Duty (Kit part number 1008-6509)

Kit Contents:

Tailgate Emblem Mount with Camera Chassis Harness with RCA (Note: In some cases a RCA extension may be required to connect to your aftermarket display.) 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 Head Screwdriver Plastic Trim Removal tool Drill Bit and small Flat File (if needed) 1 inch and 1³/₄ 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 <u>www.brandmotion.com</u>





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.

- \Box Yes, skip Section 2.
- \Box 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 (1008-6501, black handle, and 1008-6502, chrome handle) that do not require cutting.
- \Box Yes, proceed to Section 3.
- $\hfill\square$ Check kit contents are complete against the list on previous page.

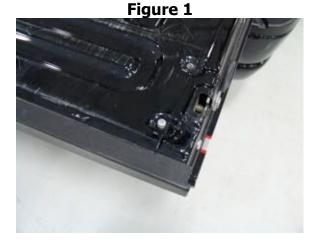
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Section 1: Camera Mount Preparation

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



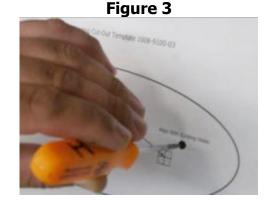
- 2. From the inside of the tailgate, verify whether two square mounting holes and a central opening approximately 1-3/4" inch in diameter are present behind the factory emblem. If not, it will be necessary to drill and square two holes for camera mount retainers and a cut an opening for the camera and 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).





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).



- 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 Z-tech to drilled holes.
- **8.** Insert supplied retaining clips (Figure 4).

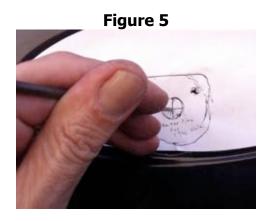


Figure 4



Section 1: Camera Mount Preparation continued

9. Drill a pilot hole for the camera mount. Using a 1³/₄ inch hole saw, cut the camera harness opening. Trial fit camera mount and file opening as necessary (Figure 5).

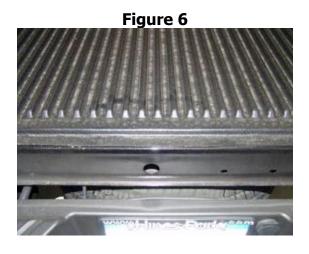


10. Apply Z-tech to camera harness opening.





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



IDMOT

seamless vehicle personalization

- 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 1¼ 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).



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





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

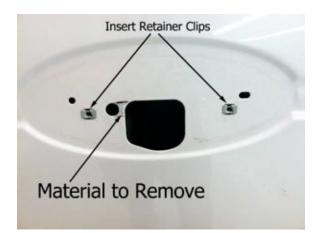


Section 3: Camera Installation

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 the base of the tailgate and seat grommet in pickup bed (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



Section 4: Chassis Harness Installation continued

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

Figure 17

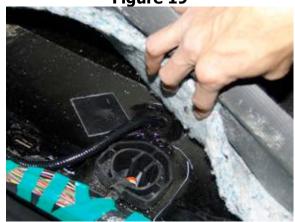


26. Apply supplied Z-tech with a small brush (Figure 18).



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

Figure 19



Section 4: Chassis Harness Installation continued

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 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



Section 5: Ignition, Reverse and Ground Locations

- **31.** If needed, install aftermarket display or navigation display per instructions.
- **32.** 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



- **33.** Route the supplied chassis harness green, red, and black wires along the vehicle cross dash harness as shown. Secure using wire ties wherever possible at 2 inch intervals.
- **34.** Splice the green reverse wire from the supplied chassis harness to the wire listed in Diagram A on page 11 depending on your vehicle model. Solder and cover the connection with tape or heat shrink tubing.
- **35.** 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



- **36.** Splice the red ignition wire from the supplied chassis harness to the wire listed in Diagram A, Page 11. Solder and cover the connection with tape or heat shrink tubing.
- **37.** Connect the male RCA from the chassis harness to the camera IN on the aftermarket display or navigation display. In some cases a RCA extension may be required.
- **38.** Start the vehicle and shift into reverse. If all of the connections are correct an image will appear on the aftermarket display or navigation display.
- **39.** Reinstall all previously removed interior and exterior parts.

Section 5: Ignition, Reverse and Ground Locations continued

Diagram A								
Chassis Harness Ignition & Reverse Locations						Supplied Chassis Harness		
Model	Year(s)	Function	Connector	Dia. Page	Location	Pin	Color	Color
5450	2012	Ignition	C2280B	12	Right Kick (BCM)	35	Violet/Green	Red
F150	(late production)	Reverse	C2280D	13	Right Kick (BCM)	13	Blue/White	Green
Super	2012	Ignition	C2280B	14	Right Kick (BCM)	35	Violet/Green(Gas) Yellow/Orange (Diesel)	Red
Duty	(late production)	Reverse	C2280D	13	Right Kick (BCM)	13	Blue/White	Green

NOTE: For previous years pinouts, please refer to Section 6B.

Section 5: Ignition, Reverse and Ground Locations continued

Ignition Connector C2280B – 2012 late production F150

Connector: C2280B

Description BODY CONTROL

BK MODULE (BCM)

Color

Harness Base Part # 14401 148207

Pin Circuit Gauge Circuit Function

Service Pigtail Not Available

Qualifier

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	PIN	Circuit	Gauge	Circuit Function	Qualifier
	1	\$8P09 (RD)	22	FUSE - 9 OR CIRCUIT BREAKER	
	2	CBP34 (VT-BN)	22	FUSE - 34 OR CIRCUIT BREAKER	
2	3	CHIP41 (BL)	22	FUSE - 41 OR CIRCUIT BREAKER	SVT Raptor
J	3	CBPN11 (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 - 35 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	(GY-BU)		FUSE + 38 OR CIRCUIT BREAKER	
	. 14	1.2	÷.	Not Used	
	15		*	Not Used	
	16	1.1		Not Used	
	17	1	*	Not Used	
	18		•	Not Used	
	19		•	Not Used	
	20			Not Used	
	21	1.1	ं	Not Used	
	22			Not Used	
	23			Not Used	
	24 25			Not Used	
	26			Not Used	
	27			Not Used	
	28	COB08 (VT-WH)	22	SWITCH - BRAKE PEDAL POSITION (BPP) NORMAL OPEN	
	29	CDC34 (WH-OG)		SWITCH - IGNITION # RUN; START	
	30	VLF14 (BU-BN)	22	SENSOR - AUTOLAMP DAY/NIGHT	
	30	(BLI)	26	SENSOR - AUTOLAMP DAY/NIGHT	with automatic AIC
	31			Not Used	
		CL832 (BN)	26	SWITCH - HAZARD	
	33	CRIH04 (VT)	28	CTRL MOD RELAY HORN	
	34	(BU-GY)	22	SWITCH - IGNITION # KEY IN	
	38	CDC33	22	SWITCH - IGNITION # RUN;	
		(VT-GN)		ACCESSORY	

36	VRT23 (VT-GY)	22	TRANSCEIVER - PASSIVE ANT: THEFT (MMONLIZER) # RX DATA (RX_IN)		
37	VRT24 (YE-OG)	22	TRANSCEIVER - PASSIVE ANTI THEFT (IMMOBILIZER) # TX ONTRL		
35	VDB06 (GY-OG)	22	CONNECTOR - DUAGNOSTIC # CAN BUS MEDIUM SPEED HIGH		
39	VD807 (VT-OG)	22	CONNECTOR - DIAGNOSTIC # CAN BUS MEDIUM SPEED LOW		
40	VLNO4 (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		
62	VEN01 (BU-WH)	20	CTRL MOD LIN BUB # SPDJII 1		
52	VDN01	22	CTRL MOD LIN BUS # with inventor		

SPDJB 1

module.

(BU-WH)

Section 5: Ignition, Reverse and Ground Locations continued Reverse Connector C2280D – 2012 late production F150 and Super Duty

Connector:	
C2280D	

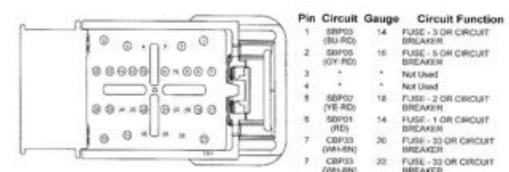
Description BODY CONTROL MODULE (BCM)

Color

BK ,

Harness 14A005 Base Part # 148207 Service Pigtail Not Available

Qualifier



14

1 SBP03 14 FUSE - S OR CRCUIT 2 SBP03 15 FUSE - S OR CRCUIT winemory 3 - Not Used - Not Used 4 - Not Used - Not Used 5 SBP02 16 FUSE - 2 OR CRCUIT winemory 6 SBP01 14 FUSE - 3 OR CRCUIT heated 7 CBP33 20 FUSE - 3 OR CRCUIT winemody 7 CBP33 22 FUSE - 3 OR CRCUIT water heated 8 SBP01 14 FUSE - 3 OR CRCUIT water heated 9 CBP33 22 FUSE - 3 OR CRCUIT water heated 16 CRP34 2 FUSE - 3 OR CRCUIT water heated 17 SPR07 2 FUSE - 3 OR CRCUIT water 18 SBP07 2 FUSE - 3 OR CRCUIT water 19 CLS16 20 CTRL MOD - STOPTURN Rest MER 10 * Not Used CT	Pin	Circuit	Gauge	Circuit Function	Qualifier
(GY RD) BREAKER 3 * Not Used 4 * Not Used 5 SBPC0 16 FUSE - 2 OR CRCUIT BREAKER 6 SBPC0 18 FUSE - 30 OR CRCUIT BREAKER nearboard 7 CBP33 20 FUSE - 33 OR CRCUIT BREAKER nearboard 8 CBP34 22 FUSE - 33 OR CRCUIT BREAKER nearboard 8 CBP34 22 FUSE - 34 OR CRCUIT BREAKER nearboard 8 SBPC1 18 FUSE - 21 OR CRCUIT BREAKER nearboard 10 * Not Used nearboard nearboard 11 SBPC1 22 FUSE - 7 OR CRCUIT (WHRD) nearboard 12 CLS18 20 CTRL MOD - STOPTURN REVERSE LAWP CONTROL nearboard 13 SBPC1 21 CTRL MOD - STOPTURN REVERSE Not Used 14 CLS28 18 CTRL MOD - STOPTURN REVERSE Not Used 15 CLS19 18 CRCNOL - STOPTURN REVERSE Not Used <	1		14		
3 -* Not Used 4 - Not Used 5 S0PO1 18 PLSE - 2 OR CROUT 6 S0PO1 14 FUSE - 2 OR CROUT 7 C0P33 20 PLSE - 33 OR CROUT Instructure 7 C0P33 20 PLSE - 33 OR CROUT Instructure 8 C8P34 21 FUSE - 35 OR CROUT Instructure 9 C8P34 22 FUSE - 35 OR CROUT Instructure 9 C8P34 21 FUSE - 36 OR CROUT Instructure 10 CROVERD REAXER Instructure Instructure 11 SBPO1 15 FUSE - 7 OR CROUT Instructure 12 CUS14 20 FUSE - 7 OR CROUT Instructure 13 SBPO1 22 FUSE - 7 OR CROUT Instructure 14 CUS14 20 CTRL MOD - STOPTURN Instructure 15 CUS14 20 CTRL MOD - STOPTURN Instructure 16	2	SINPOS	16	FUSE - 5 OR CIRCUIT	whenory
4 * Not Used 5 SBPO2 18 FUSE - 2 OR CROUT 6 SDP01 14 FUSE - 1 OR CROUT Inschware 7 CBP33 20 FUSE - 33 OR CROUT Inschware 7 CBP33 22 FUSE - 33 OR CROUT Inschware 8 CBP34 22 FUSE - 33 OR CROUT Inschware 8 CBP34 22 FUSE - 31 OR CROUT Inschware 8 CBP34 22 FUSE - 21 OR CROUT Inschware 9 SBP07 22 FUSE - 7 OR CROUT Inschware 10 * Not Used Interviewed Interviewed 11 SBP07 22 FUSE - 7 OR CROUT Interviewed 11 SBP07 22 FUSE - 7 OR CROUT Interviewed 11 SBP07 22 FUSE - 7 OR CROUT Interviewed 12 OLS18 20 CTRLINCO - STOPTURN (WH-400) REVIEWED REVIEWED REVIEWED	3				
(YE-RD) BREAKER 8 SDPD1 14 FUSE-1 OR CIRCUIT BREAKER Instruction 7 CDP33 20 FUSE-33 OR CIRCUIT BREAKER Instruction 8 C3P34 22 FUSE-33 OR CIRCUIT BREAKER Instruction 8 SHP21 18 FUSE-24 OR CIRCUIT BREAKER Instruction 9 SHP21 18 FUSE-24 OR CIRCUIT BREAKER Instruction 10 * Not Used Instruction Instruction 11 SBP07 22 FUSE-7 OR CIRCUIT BREAKER Instruction 12 CLS16 20 CTRL MOD - STORTURN (WHRD) Inter (MOCARD) 13 CLS28 18 CTRL MOD - STORTURN (BU-WH) Inter (MOCARD) 14 CLS22 20 CTRL MOD - STORTURN (BU-WH) Inter (MOCARD) 15 CLS28 18 CTRL MOD - STORTURN (BU-WH) Inter (MOCARD) 15 CLS29 18 CTRL MOD - DOOR LOCK # DROWN (BU-TORN) Inter (MOCARD) 16 GOT09 18 CIRL MOD - DOOR LOCK					
(RD) BREARER Fuller 33 OR CRICUIT Heated years 7 CBP33 28 FUSE - 33 OR CRICUIT Heated years 8 CBP34 28 FUSE - 33 OR CRICUIT Heat heated years 8 CBP34 28 FUSE - 21 OR CRICUIT Heat heated years 8 SBP21 18 FUSE - 21 OR CRICUIT writient 10 * Not Used Highing 11 SBP07 22 FUSE - 7 OR CRICUIT writient 11 SBP07 20 FUSE - 7 OR CRICUIT oritike 12 CLS16 20 CTRL MOD - STOPTURN (CMMR), (ST4M) REVIEWER LAWP CONTROL, PSC 13 CLS28 18 CTRL MOD - STOPTURN ROL (ST0M) REGIT (MDDARD) 14 CLS22 20 CTRL MOD - STOPTURN ROL (ST0M) REGIT (MDDARD) 14 CLS28 18 CTRL MOD - STOPTURN ROL (ST0M) REGIT (MDDARD) 15 CLS19 18 CTRL MOD - STOPTURN ROL (ST0M) REGIT (MDDARD) 16 GB109 18	1		18		
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(BU-WH) REVERSE LAMP CONTROL (IN) 14 CL552 20 CTRL MOD - STOPYTURN REGIT MIDDLE 15 OL519 18 CTRL MOD - STOPYTURN REGIT (MBOARD) 16 G0139 18 CROUND - COVA SDPHLLAR A REGIT # 2ND POINT (8L21) 17 CBP30 18 FUSE - 32 OR DIRCUIT (SN-VT) 18 CBP40 18 FUSE - 32 OR DIRCUIT (RE-GN) 18 CBP40 18 FUSE - 32 OR DIRCUIT (RE-GN) 19 * * Net Used 20 * * Net Used 21 CPL51 18 CTRL MOD - DOOR LOCK # (RE-GN) 22 CLN09 22 RELAY - BATTERY SAVER (E-G. SWITCH OFF INTERDOR LIGHTING) 23 * Net Used 24 * Net Used 25 GD138 26 GRUND - DOOR LOCK # NET USED 26 CPL11 16 CTRL MOD - DOOR LOCK # ALL LOCK 27 CBP01 12 FUSE - 48 OR CIRCUIT (DL) 28 * * Net Used 29 * * Net Used	12		20		
(0N) FIGHT MEDDLE 15 CLS19 18 CTRL MCC - STORYTURN RIGHT (MBCARD) 16 G0139 18 CTRL MCC - STORYTURN RIGHT (MBCARD) 16 G0139 18 CREWAD, COWA SIDERFILLAR A RIGHT # 2ND POINT (SL31) 17 CBP30 18 FUSE - 32 OR CHRCUIT BREAKER 18 CBP40 18 FUSE - 40 OR CHRCUIT BREAKER 19 * * Net Used 20 * * Net Used 21 GPL51 18 CTRL MCO - DOOR LOCK # DERVER URLOCK 22 CLNC9 22 RELAY - BATTERY SAVER (FE-ON) 23 * Net Used 24 * Net Used 25 GD138 26 GROUND - COWL SIDEPELLAR A RIGHT # 2ND POINT (SL37) 26 CPL11 16 CTRL MOD - DOOR LOCK # ALL LOCK 27 CRP01 12 FUSE - 48 OR CIRCUIT DERSAKER 28 * Net Used - ALL LOCK 29 * Net Used - NET Used 30 *	13		18	REVERSE LAMP CONTROL	
(VT-OG) RIGHT (NBOARD) 16 GD139 15 OROUND - COVAL SIDEPFILLAR A RIGHT # 2ND PORT (3L31) 17 CBP10 18 FUSE - 32 OR DIRCUIT (SN-VT) RREAKER 18 CBP40 18 FUSE - 40 OR DIRCUIT (FE-GN) RREAKER 19 * * Net Used IF 20 * * Net Used IF 21 GPL51 18 CTRL MOD - DOOR LOOK # IF 22 CINC9 22 REAY - BATTERY SAVER (FE-G.SWITCH OFF INTERDOR LIGHTING) IF 23 * Net Used IF Net Used 24 * Net Used IF IF 25 GD139 26 GROUND - COWL SIDEPELLAR A RIGHT # 2ND POINT (SU2T) 26 CPL11 18 CTRL MOD - DOOR LOOK # 27 CBP01 12 FUSE - 48 OR CIRCUIT 30 * Net Used IF 27 CBPL1 12 FUSE - 48 OR CIRCUIT 30 * Net Used	14		20		
(D6-NE) SIDEPILLAR A RIGHT # 2ND PONT (8,21) 17 CBP(0) 18 FUSE - 32 OR DIRCUIT IRREAKER 18 CBP40 18 FUSE - 40 OR DIRCUIT IRREAKER 19 * * Net Used 20 * * Net Used 21 CPL51 18 CTRL MOD - DOOR LOCK # DREVER UNLOCK 22 CLNC9 22 RELAY - BATTERY SAVER (E.G. SWITCH OFF INTERIOR LIGHTING) 23 * * Net Used 24 * Net Used 25 GD138 26 CROUND - COVAL SEDEPILLAR A RIGHT # 2ND POINT (SL27) 26 CPL11 16 CTRL MOD - DOOR LOCK # ALL LOCK 27 CR01 12 FUSE A4ER 28 * Net Used * 29 * Net Used * 29 * Net Used * 29 * Net Used * 30 * Net Used * 31 CPL52 18 CTRL MOD -	15		18		
(SN-VT) BREAKER 16 CBP40 18 FUBI-40 OR CIRCUIT 19 * Net Used 20 * Net Used 21 GPL51 15 CTRL MOD - DOOR LOCK # 22 CLND9 22 RELAY- BATTERY SAVER (EG. SWITCH OFF INTERIOR LIGENTING) 23 * * Net Used 24 * * Net Used 25 GD138 35 GROUND - COWL 26 GD138 35 GROUND - COWL 27 * * Net Used 28 * * Net Used 29 GD138 SE GROUNT (SL2T) 20 GPL11 16 CTRL MOD - DOOR LOCK # 20 * * Net Used 21 (BU BESAKER BUNECK (ALL EXCLUDING 22 * * Net Used 23 * * Net Used 24 * </td <td>16</td> <td></td> <td>16</td> <td>SIDE/FILLAR A RIGHT # 2ND</td> <td></td>	16		16	SIDE/FILLAR A RIGHT # 2ND	
(YE-GN) BREAKER 19 * Net Used 20 * Net Used 21 CPL51 15 CTRL MOD - DOOR LOCK # DEPENDENT UNLOCK 22 CLN09 22 RELAY - BATTERY SWATER (E.G. SWITCH OFF INTERDOR LIGENTING) 23 * * Net Used 24 * * Net Used 25 GD138 35 GROUND - COWL SEDEPELLAR A RECHT # 2ND POINT (SL2T) 26 CPL11 16 CTRL MOD - DOOR LOCK # ALL LOCK 27 CRP01 12 FUSE - 48 OR CIRCUIT (DL) 28 * Net Used 29 * Net Used 30 * Net Used 31 OPL52 18 CTRL MOD - DOOR LOOK # NATURED 31 OPL52 18 CTRL MOD - DOOR LOOK # NATURED 31 OPL52 18 CTRL MOD - DOOR LOOK # NATURED 31 OPL52 19 CTRL MOD - DOOR LOOK # SUNLOCK (ALL EXCLUDING DRIVER) 32 SBP19 14 FUSE - 19 OR CIRCUIT SUP sound <td>+7</td> <td></td> <td>18</td> <td></td> <td></td>	+7		18		
20 * NRL Used 21 GPL51 18 CTRL MOD - DOOR LOCK # DRIVER UNLOCK 22 CLNC9 22 RELAY - BATTERY SAVUR (E.G. SWITCH OFF INTERIOR LIGHTING) 23 * * Net Used 24 * * Net Used 25 GD138 35 GROUND - COWL SEDPLLAR A RIGHT # 2ND POINT (SL2T) 26 GPL11 16 CTRL MOD - DOOR LOCK # ALL LOCK 27 CRPO1 12 FUSE - 48 OR CIRCUIT DRSAKER 28 * Net Used 30 * Net Used 31 CPL52 18 CTRL MOD - DOOR LOCK # NASSENGER DOORS UNLOCK (ALL EXCLUDING DRSAKER 31 CPL52 19 CTRL MOD - DOOR LOCK # Super Crew PASSENGER DORS UNLOCK (ALL EXCLUDING DRVER) 31 CPL52 19 CTRL MOD - DOOR LOCK # Super Crew PASSENGER DORS 31 CPL52 19 CTRL MOD - DOOR LOCK # Super Crew PASSENGER DORS 32 SBP19 14 FUSE - 19 OR CIRCUIT SONY sound	18		18		
21 GPL51 18 CTRL MOD - DOOR LOCK # 22 GPL51 18 CTRL MOD - DOOR LOCK # 22 CLNC9 22 RELAY - BATTERY SAVER (FE-G SWITCH GFF INTERIOR LIGHTING) 23 * * Not Used 24 * * Not Used 25 GD138 36 GROUNCH - COWL SIDEPILLAR A RIGHT # 2ND POINT (SL2T) 26 CPL11 16 CTRL MOD - DOOR LOCK # ALL LOCK 27 CRP01 12 FUSE - 48 OR CIRCUIT IDESAKER 28 * Net Used 29 * Net Used 30 * Net Used 31 CPL52 18 CTRL MOD - DOOR LOCK # NATURED 31 CPL52 19 CTRL MOD - DOOR LOCK # NET Used 31 CPL52 18 CTRL MOD - DOOR LOCK # NATURED 31 CPL52 19 CTRL MOD - DOOR LOCK # Super Crew PASSENGER DOORS UNLOCK (ALL EXCLUDING DRVER) 32 SBP19 14 FUSE - 19 OR CIRCUIT SONY sound				Not Uned	
(RU-GN) DRIVER UNLOCK 22 CLNC9 22 RELAY - BATTERY SAVER (FG SWITCH OFF INTERDOR LIGHTING) 23 * * Not Used 24 * * Not Used 25 GD138 36 CROUND - COVAL SEDEPILLAR A RIGHT # 2ND PORT (SLT) 26 CPL11 16 CTRL MOD - DOOR LOCK # ALL LOCK 27 CRP01 12 FUSE - 48 OR CIRCUIT BRSAKER 28 * * Not Used 29 * * Not Used 29 * * Not Used 30 * * Not Used 31 CPL52 18 CTRL MOD - DOOR LOCK # NULDOK (ALL EXCLUDING UNLOCK (ALL EXCLUDING UNLOCK (ALL EXCLUDING UNLOCK (ALL EXCLUDING UNLOCK (ALL EXCLUDING 31 CPL52 19 CTRL MOD - DOOR LOCK # Super Crew PASSENGER DOORS UNLOCK (ALL EXCLUDING UNLOCK (ALL EXCLUDING 32 SBP19 14 FUSE - 19 OR CIRCUIT SONY sound					
(YE-GN) (E.G. SWITCH OFF INTERIOR LIGHTING) 23 * * 24 * Not Used 25 GD138 36 GROUND - COWL SIDEPILLAR A RIGHT # 2ND POINT (SUT) 26 CPL11 16 CTRL MOD - DOOR LOCK # ALL LOCK 27 CRP01 12 FUSE - 48 OR CIRCUIT (BU) 28 * * 29 * Net Used 29 * * 29 * * 29 * * 29 * * 29 * * 29 * * 29 * * 29 * * 29 * * 20 * * 21 CPL52 18 22 * * 23 * * 24 CTRL MOD - DOOR LOCK # 25 CPL12 * 26 CTRL MOD - D	_	(8U-CN)		DRIVER UNLOCK	
24 * Net Used 25 GD139 35 GROUND - COWL SIDEPELLAR A RIGHT # 2ND POINT (SU2T) 26 CPL11 16 CTRL MOD - DOOR LOOK # ALL LOCK 27 CBP01 12 FUSE - 48 OR CIRCUIT (BU) 28 * Net Used 29 * Net Used 30 * Net Used 30 * Net Used 31 CPL92 18 CTRL MOD - DOOR LOCK # NRUVER 31 OPL92 19 CTRL MOD - DOOR LOCK # NUN_DOK (ALL EXCLUDING DRIVER) 31 OPL92 16 CTRL MOD - DOOR LOCK # Super Crow PASSENGER DOORS UNLOCK (ALL EXCLUDING DRIVER) 32 SBP19 14 FUSE - 19 OR CIRCUIT SONY sound	22			(E.G. SWITCH OFF	
Inc. State Inc. State 25 GD138 36 GROUND - COWL SIDEPILLAR A RIGHT # 2ND POINT (SL2T) 26 CPL11 16 CTRL MOD - DOOR LOCK # ALL LOCK 27 C6P01 12 FUSE - 46 OR CIRCUIT DREAKER 28 * * Net Used 30 * * Net Used 30 * * Net Used 31 CPL52 18 CTRL MOD - DOOR LOCK # NASSENGER DOORS UNLOCK (ALL EXCLUDING DRIVER) 31 CPL52 15 CTRL MOD - DOOR LOCK # Super Crew PASSENGER DOORS UNLOCK (ALL EXCLUDING DRIVER) 31 CPL52 15 CTRL MOD - DOOR LOCK # Super Crew PASSENGER DOORS UNLOCK (ALL EXCLUDING DRIVER) 32 SBP19 14 FUSE - 19 OR CIRCUIT SONY sound	22			Not Used	
(BK-YE) SDDPPLLAR A RIGHT # 2ND POINT (SU2T) 26 CPL11 16 (GY-BN) 16 CTRL MOD - DOOR LOCK # ALL LOCK 27 CRP01 12 (BL) DREAKER 28 * Net Used 30 * Net Used 31 CPL12 18 (VT-GY) 19 CTRL MOD - DOOR LOCK # Net Used 31 OPL52 18 (VT-GY) PASSENGER DOORS UNLOCK (ALL EXCLUDING DRIVER) 31 OPL12 (VT-GY) 16 CTRL MOD - DOOR LOCK # PASSENGER DOORS UNLOCK (ALL EXCLUDING DRIVER) 32 SBP19 14	-				
(GY-BN) ALL LOCK 27 CRP01 12 FUSE - 48 OR CIRCUIT (BU) DREAKER 28 * Net Used 30 * Net Used 31 CPL52 18 CTRL MOD - DOOR LOCK # (VT-GY) PASSENGER DOORS UNLOCK (ALL EXCLUDING DRIVER) 31 OPL52 16 CTRL MOD - DOOR LOCK # Super Crew PASSENGER DOORS UNLOCK (ALL EXCLUDING DRIVER) 32 SBP19 14 FUSE - 19 OR CIRCUIT SONY sound	25		36	SIDE/PILLAR A RIGHT # 2ND	
(DLI) DREAKER 28 * * Net Used 29 * * Net Used 30 * * Net Used 31 CPL52 18 CTRL MOD - DOOR LOOK # (VT-GY) PASSENGER DOORS UNLOCK (ALL EXCLUDING DRIVER) 31 CPL52 16 CTRL MOD - DOOR LOCK # Super Crew PASSENGER DOORS UNLOCK (ALL EXCLUDING DRIVER) 32 SBP19 14 FUSE - 19 OR CIRCUIT SONY sound	26		16		
29 * Not Used 30 * Not Used 31 OPL52 18 CTRL MOD - DOOR LOCK # (VT-GY) PASSENGER DOORS UNLOCK (ALL EXCLUDING DRIVER) Saper Crew PASSENGER DOORS UNLOCK (ALL EXCLUDING DRIVER) 31 OPL12 (VT-GY) 16 CTRL MOD - DOOR LOCK # Saper Crew PASSENGER DOORS UNLOCK (ALL EXCLUDING DRIVER) 32 SBP19 14 FUSE - 19 OR CIRCUIT SONY sound	27		12		
S0 * Not Used 30 * Not Used 31 OPL52 18 CTRL MOD - DOOR LOOK # (VT-GY) PASSENGER DOORS UNLOCK (ALL EXCLUDING DRVER) Super Crew PASSENGER DOORS UNLOCK (ALL EXCLUDING DRVER) 31 OPL52 16 CTRL MOD - DOOR LOCK # Super Crew PASSENGER DOORS UNLOCK (ALL EXCLUDING DRVER) 32 SBP19 14 FUSE - 19 OR CIRCUIT SONY sound				Net Used	
OF Microsoft 31 OPL52 18 CTRL MOD - DOOR LOCK # (VT-GY) PASSENGER DOORS UNLOCK (ALL EXCLUDING DRVER) 21 31 OPL52 16 CTRL MOD - DOOR LOCK # 31 OPL52 16 CTRL MOD - DOOR LOCK # 31 OPL52 16 CTRL MOD - DOOR LOCK # 31 OPL52 16 CTRL MOD - DOOR LOCK # SUNLOCK (ALL EXCLUDING DR/VER) Super Crew FASSENGER DOORS UNLOCK (ALL EXCLUDING DR/VER) Super Crew FASSENGER DOORS 32 SBP19 14 FUSE - 19 OR CIRCUIT SONY sound	1000				
(VT-GY) PASSENGER DOORS UNLDCK JALL EXCLUDING DRIVER) 31 OPLS2 16 CTRL MOD - DOOR LOCK # Super Crew PASSENGER DOORS UNLOCK JALL EXCLUDING DRIVER) 32 SBP19 14 FUSE - 19 OR CIRCUIT SONY sound					
UNLOCK (ALL EXCLUDING DRIVER) 31 OPUS2 (VT-GY) 16 CTRLMOD - DOOR LOCK # Super Crow PASSENGER DOORS UNLOCK (ALL EXCLUDING DRIVER) 32 SBP19 14 FUSE - 19 OR CIRCUIT SONY sound	-	UN12	18	CTHL MOD - DOOR LOCK #	
(VT-GY) PASSENGER DOORS UNLOCK (ALL EXCLUOING DRIVER) 32 SBP19 14 FUSE - 19 OR CIRCUIT SONY science		(V1-GY)		UNLOCK (ALL EXCLUDING	
32 58P19 14 FUSE - 19 OR CIRCUIT SONY sound	31		16	PASSENGER DOORS UNLOCK (ALL EXCLUOING	
	32		14	FUSE - 19 OR CIRCUIT	SONY sound

Section 5: Ignition, Reverse and Ground Locations continued

Ignition Connector C2280B – 2012 late production Super Duty

Connector: C2280B Description BODY CONTROL MODULE (BCM)

Color Hamess

Base Part # Service Pigtail 15604 Not Available

Qualifier

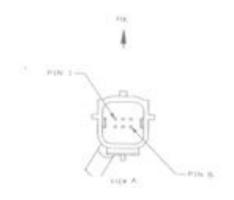
Pin Circuit Gauge Circuit Function

$\int O$	
	-

1	SBP09 (RD)	20	FUSE - 9 OR CIRCUIT IRREAKER	
2			Not Used	
3	CBP41 (01/)	22	FUSE - 41 OR GROUIT BREAKER	
4	CBP31 (BU-OG)	22	FUSE - 31 OR GROUIT BREAKER	
8			Not Used	
	CBP44 (VT)	22	FUSE - 44 OR CIRCUIT BREAKER	
7	CBP35 (YE-GY)	22	FUSE - 35 OR CIRCUIT IRREAKER	
ð			Not Used	
9	CBP36 (BU-BN)	29	FUSE - 38 OR CIRCUIT BREAKER	
10	CBP37 (WH)	22	FUSE - 37 OR CIRCUIT BREAKER	
11	+		Not Used	
12	80P26 (YE-RD)	22	FUSE - 25 OR CIRCUIT BREAKER	
13	CBP38 (GY-BU)	22	FUSE - 38 OR CIRCUIT BREAKER	with single CD / base autic
14			Not Used	222
15			Not Used	
16			Not Used	
17			Not Used	
18	*		Not Used	
19			Not Used	
210		•	Not Used	
31	:	*	Not Used	
22			Not Used	
23	- C		Not Used	
24		2	Not Used	
25			Not Used	
27			Not Used Not Used	
28	CCEOS (VT.WH)	22	SWITCH - BRAKE PEDAL POSITION (DPP) NORMAL OPEN	
29	(WH-VT)	22	CTRL MOD - IGNITION ACCESSORY SHUTDOWN #D+	desci
25	CDC34 (WH-OC)	18	SWITCH - IGNETION # PUN; START	gasoine
30	VLF54 (BUHBN)	22	SENSOR - AUTOLAMP DAY/NGHT	manual alt
30	VLF14 (BUHBN)	20	SENSOR - AUTOLAMP DAY/NIGHT	automatic are
31	1*:		Not Used	
32	GL832 (BN-YE)	22	SWITCH - HAZARD	
33	(VT-GN)	22	CTRL MOD RELAY HORN	
34	(BU-GY)	22	SWITCH - IGNITION # KEY IN	
35	COO63	22	CTRL MOD KINITION	diesol
	(ME-DG)		ACCESSORY SHUTDOWN # RUN	
35	(VT-GN)	-22	SWITCH - IGNITION # RUN; ACCESSORY	gasoline
	(VT-GN)		ACCESSORY	-

35	VRT24 (YE-OG)	22	TRANSCEIVER - PASSIVE ANTI THEFT (MIMOBILIZER) # TX CNTRL
37	VRT23 (VT-GY)	22	TRANSCEIVER - PASSIVE ANTI THEFT (IMMOBILIZER) # RX DATA (RX, IN)
38	VD805 (GY-OG)	22	CONNECTOR - DIAGNOSTIC # CAN BUS MEDIUM SPEED HIGH
39	VD807 (VT-0G)	22	CONNECTOR - DIAGNOSTIC # CAN BUS MEDRUM SPIEID LOW
40	VLNOA (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	CÉT53 (BU-OG)	22	CTRL MOD · POWERTRAIN # BRAKE SHIFT INTERLOCK
50	- 11 - 1		Not Used
61			No: Used
52	VDN01 (BUHWH)	22	CTRL MOD LIN BUS # SPOJB 1

Section 6A: 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 6B: Reference – Previous Model Year Ignition and Reverse Locations

				Dia.				Supplied Chassis Harness
Model	Year	Function	Connector	Dia. Page	Location	Pin	Color	Color
F150	2004	Ignition	C270J	17	Right Kick	2	White / L. Blue	Red
F 150	50 2004	Reverse	C270E	18	Right Kick	20	Black / Pink	Green
F150	2005-	Ignition	C270J	17	Right Kick	2	White / L. Blue	Red
F150	2008	Reverse	C270B	19	Right Kick	12	Green/ Yellow	Green
F150	2009- 2012	Ignition	C2280D	20	Right Kick	16	Blue or Blue/ Red	Red
	(early production)	Reverse	C215	21	Right Kick	6	Blue	Green
Super	0000	Ignition	C264	22	Right Kick SJB	10	Red / Yellow	Red
Duty	2008	Reverse	C264	22	Right Kick SJB	12	Black / Pink	Green
Super	2009- 2012	Ignition	C264	23	Right Kick	2	Blue	Red
Duty	(early production)	Reverse	C264	23	Right Kick	10	Green/ Blue	Green

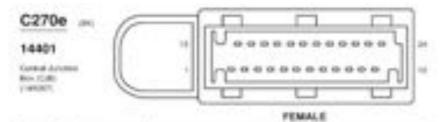
Section 6B: Reference – Previous Model Year Ignition & Reverse Locations continued

Connector: C270J	Description CENTRAL JUNCTION BOX (CJB)	Color BK	Harnes 14A005			e Part # IA067	Service	Pigtail
				Circuit			unction	Qualifier
1.1			1	59 (DG- VT)	20	Rear window de output	shoet relay	
f	11111		5	254 (WH- LB)	20	Voltage supplier Run (overload p		
2	r 11		3	-		Not Used		
ŕ			4			Not Used		
	(2)		5	- 51		Not Used		
	S (1) E	כ	6	958 (OG- LO)	20	Not Used Voltage supplier overload protect		
I	4 3		8	9(1.0-00)	16	Left rear stop-tu feed		
					-	Not Used		
	6		10			Not Used		
I	o (5)		55	720 (RD- YE)	50	Voltage supplier overload protect		
	(8)		12			Not Used		
	ି ଜା		13	937 (RD- 1WH)	20	Voltage supplier Run (overload p	wotected)	
- 1	10		- 54	5 (05-L8)		Right rear stop- signal feed		
I	(9)		15	705 (LG- OG)	18	Battery saver re	lay output	
			16	64 (DG)	16	Right rear stop- signal feed	tum lamps	
	0 0	כ						

Ignition Connector C270J – 2004 – 2008 F-150

Section 6B: Reference – Previous Model Year Ignition & Reverse Locations continued

Reverse Connector C270E – 2004 F150



Pin	Circuit	Circuit function
!	1039 (84(VE)	Votage supplied in Start and Run (overload protected)
2	14(04)	Hot in Park or Head
3	414141	not used
4	# # #	not used
5	1.1.1	-tot used
.6	4.4.4.1	mpt used
P	4(4,4)	nor used
8		Mot used
9	481 (00)	Provi blower motor relay control
10	1005 (V7-00)	Battery saver reley control
11	4.4.4.1	not used
12	1.(00)	Hom wise control
12	54 (L0/YE)	Accessary delay teray switched power
14	1003 (QY/YE)	Votage supplied in Start and Run (control protected)
15	9 (LG/OO)	Cert rear upgeturn lange signal feed
18	729 (RO/8H)	Voltage supplied at all times (overload protocled)
47	1266-(RD-YE)	Voltage supplied in Slart and Run (overload protected)
18	6 (DG/LR)	Right rear stop-turn lamps signal feed
19	2.4.4	not used
20	140 (BKPK)	Trader tow neary, reveniing ramp switched power
21	1332-LB1	Accessory delay ninay control
22	0000 (274,000)	Rear window defrost relay control
25	296 (885/575)	Voltage supplied in Start and Run (overload protected)
24	1000 (PO-6H)	Voltage supplied in Start (overload protected)

Section 6B: Reference – **Previous Model Year Ignition & Reverse Locations continued**

	Reverse	e Connect	or C270B	- 2005	-2008	F150		
Connector: C270B	Description CENTRAL JUNCTION BOX (CJB)	Color BK	Harnes 12A581	5.00		e Part # IA067		e Pigtail IA484-KA
,			Pin	Circuit	Gauge	Circuit	Function	Qualifier
1			1	295-(LB- PK)	18	Voltage suppli Run (overload	ed in Start and protected)	
4	IHHH		2	1856 (GY- DG)	20		ed in Start and	Late production
	4		3	533 (TN- RD)	18	Voltage suppli Run (overload	ed in Start and protected)	
Щ	ліц		4	1683 (DG)	20	Voltage suppli- (overload prot	ed at all times ected)	
	ର		5	160 (DB- VIH)	18	Headlamps low switched power	w beam	
	e n		6	65 (DG)	20	Votage in Rui (overload prot	n or Accessory ected)	
			7	603 (PK- LB)	16	Voltage suppli (overload prot	ed at all times ected)	
	4 0 1				1.1	Not Used		
	- (3)		9	161 (DG- OG)	18	Headlamps lov switched power		
			10			Not Used		
	6)		11			Not Used		
	5		12	1043 (DG- YE)	20	Trailer tow relation		
	8 G							

9

Section 6B: Reference -**Previous Model Year Ignition & Reverse Locations continued**

Ignition Connector C2280D – 2009-2012 (early production) F150

Connector:	
C2280D	ş

Description SMART JUNCTION BOX (SJB)

Harness 14A005

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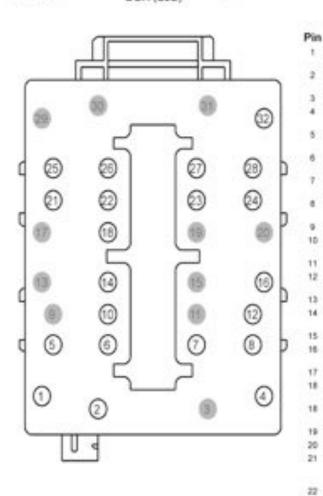
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Color

BK

Base Part # Service Pigtail

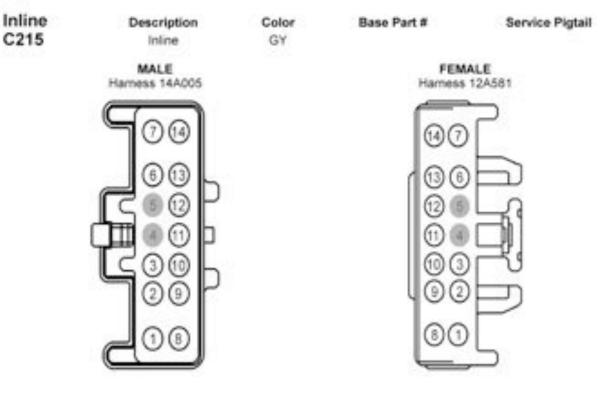
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			123 231023	
١	Circuit			Qualifier
	88P01 (RD)	16	FUSE - 1 OR CIRCUIT BREAKER	
	58P18 (YE-RD)	16	FUSE - 18 OR CIRCUIT BREAKER	
			Not Used	
	58P38 (BN-RD)	16	PUSE - 38 OR CIRCUIT BREAKER	
	CBP92 (GN-VT)	20	FUSE - 32 OR CIRCUIT BREAKER	
	CPL11 (GY-8N)	16	CTRL MOD DOOR LOCK # ALL LOCK	
	GD139 (BK-YE)	10	GROUND - PILLAR A RIGHT # 2ND STUD	
	GD139 (BK-YE)	20	GROUND - PILLAR A RIGHT # 2ND STUD	
		- 33 - 3	Not Used	
	(GY-RD)	20	FUSE - 13 OR CIRCUIT BREAKER	
			Not Used	
	(BK-YE)	20	GROUND - PILLAR & RIGHT # 2ND STUD	
			Not Used	
	C8P48 (MM+BC)	20	FUSE - 46 OR CIRCUIT BREAKER	
			Not Used	
	(Bu)	18	FUSE - 41 OR CIRCUIT BREAKER	
			Not Used	
	(GN-RD)	18	PUSE - 12 OR CIRCUIT BREAKER	All others
	68P12 (GN-RD)	50	FUSE - 12 OR CIRCUIT BREAKER	if equipped
		1.1	Not Used	
			Not Used	
	(YE-GN)	18	RELAY - BATTERY SAVER (E.G. SWITCH OFF INTERIOR LIGHTING)	
	C8P43 (GY)	20	FUSE - 43 OR CIRCUIT BREAKER	
	CBP35 (YE-BU)	20	FUSE - 35 OR CIRCUIT BREAKER	
	GD139 (BK-YE)	20	GROUND - PILLAR & RIGHT # 2ND STUD	
	CLS18 (GY-BN)	16	CTRL MOD STOP/TURN LEFT	
	CL519 (VT-00)	16	CTRL MOD STOP/TURN RIGHT	
	CPL52 (17-01)	16	CTRL MOD - DOOR LOCK # PASSENGER DOORS UNLOCK (ALL EXCLUDING DRIVER)	
	CPL51 (BU-GN)	18	CTRL MOD DOOR LOCK # DRIVER UNLOCK	
			Not Used	
			Not Used	
			Not Used	
	CBP47 (GN-8U)	12	FUSE - 47 OR CIRCUIT BREAKER	

Section 6B: Reference – Previous Model Year Ignition & Reverse Locations continued

Reverse Connector C215 – 2009-2012 (early production) F150



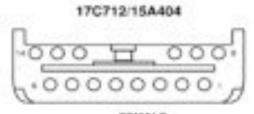
Pin	Circuit	Gauge	Qualifier
1	58811 (BU-RD)	12	
2	CL519 (VT-OG)	16	
3	56672 (VT-RD)	16	
4			
5			
. 6	CET47 (BU)	20	
7	\$8814 (8N-RD)	.14	
8	SBBI9 (SY-RO)	12	14A005
. 8	SBB69 (GY-RD)	14	12A581
	CMC25 (WH-VT)	20	12A581
	CMC25 (WH-VT)	22	14A005
10	VCA23 (BU-WH)	20	
11	VCA24 (GN-OG)	20	
12	CL525 (YE-VT)	18	14A005
12	CL825 (YE-VT)	18	12A581 - Early production
12	CL525 (YE-VT)	20	12A581 - Late production
13	CL518 (GY-BN)	18	
54	CRIDOB (BN-YE)	12	

Section 6B: Reference – Previous Model Year Ignition & Reverse Locations continued

Ignition and Reverse Connector C264 – 2008 Super Duty



170	Q.	181	"15 (8N1,8)
(20)	~*ENE (PROD0)	101	**19 (LB/RO)
(2)		(19)	HIRRO (RD YE)
140	"14 (BN6	1110	14.5,5/YE)
(5)	57 (BH)	(12)	111140 (840/990)
(8)	1963 (Sec. 19	(13)	***753 (WHOG)
(7)	~402 (J.B/8K)	(34)	-702 WHERE



PEMALE

(1)	-	(4)	1153 (8411.8)
(2)	THEN PRICE	00	116 (LB/RD)
18		(10)	111640 (R0/VE)
141	*14 (SN)	0.03	SH (LG/YE)
- 64	57 (BH)	(12)	***140 (BK/FR)
.01		(53)	***708 (WH/OG)
(7)	**400 (LB/8K)	(94)	****702 (MH489K)

Section 6B: Reference – Previous Model Year Ignition & Reverse Locations continued

Ignition and Reverse Connector C264 – 2009-2012 (early production) Super Duty

Inline C264	Description Inline	Color BK	Base Part #	Service Pigtail
	MALE Hamess 14A005		FEM Harness	ALE 17K745
	10		6	@P
			Ø	0
	© b		6	ĩ
			6	ÞQ
	00			0
	000		0	0
	Ð		G	٥L

Pin	Circuit	Gauge	Qualifier
۹.	DMP19 (BK)	20	With Video Cameta
2	CBP41 (BU)	20	
3	× .		
4	× .		
5	VMC30 (BU-GY)	20	
. 6	VMC31 (GY-BU)	20	
7	VMP19 (WH-GN)	20	With Video Camera
	RMPTH (EN-VT)	20	With Video Camera
	RMM13 (BU)	20	MIC
10	CLS10 (GN-BN)	18	MIC
tt	VMM13 (YE-GN)	20	
12	*		
10	DMM13 (BK)	16	
14	GD133 (BK)	20	





Rear Vision System – Liftgate Emblem Camera for Aftermarket Display 2009-2012 Ford Flex (Kit part number 1008-6509)

Kit Contents:

Liftgate Emblem Mount with Camera Chassis Harness with RCA (Note: In some cases a RCA extension may be required to connect to your aftermarket display.)

1 bag containing: Ford Emblem

1 bag containing:

2 Liftgate emblem retainers

2 Mounting Screws

1 bag containing:

- 25 Wire Ties (short)
- Z-Tech (in a white bottle)

1 bag containing:

1 Template (along with these instructions)

Tools Required:

5.5mm, 7mm, 8mm, and 10mm Sockets Phillips Screwdriver Plastic Trim Removal tool Pliers Razor Knife or scissors Wire Cutters Soldering Iron Small Brush

Addtional Tools:

Drill Bit 1¾ inch Center Hole Saw Flat Metal File Round File or Deburring Tool

NOTE: We strive to provide accurate and up-to-date installation instructions. For the latest full color instructions, as well as an installation video (use relevant portions of 1008-9520), please visit www.brandmotion.com





PRE-INSTALLATION VEHICLE CHECKLIST

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

Determine whether the vehicle has the required two mounting holes and a camera harness opening behind the existing liftgate emblem. Refer to Steps 2-4 to remove inner liftgate panel, and use supplied 1008-9100-04 template to confirm whether the required holes are present in the panel.

- \Box No, use supplied 1008-9100-04 template to position the holes to drill and/or cut the liftgate.
- \Box Yes, proceed to Section 2.
- $\hfill\square$ Check kit contents are complete against the list above.

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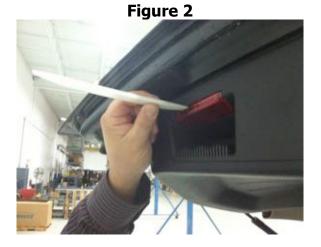


Section 1: Camera Mount Preparation

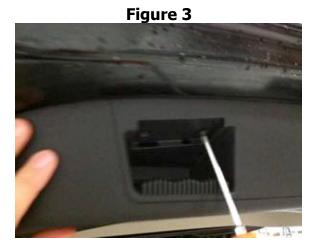
1. Remove grommets from the supplied chassis harness and camera harness. Remove tape and, taking care not to cut the supplied wiring, cut grommets off with a razor knife, scissors, or wire cutters (Figure 1). Discard grommets.



2. Raise liftgate. Using a plastic trim removal tool, pry off the two red plastic reflectors in the lower edge of the liftgate to expose four retaining screws (Figure 2).



3. Unfasten the four screws with a Phillips screwdriver and pry up on the edges of the liftgate lower trim panel to release it from the liftgate. Remove liftgate lower trim panel and set aside (Figure 3).



4. Remove upper liftgate trim and set aside.

5. If equipped with power liftgate opener, remove the top end of the power gas strut by prying off the bolt cover with a plastic trim tool to access one 10mm bolt. Use a 10mm socket to remove and push free end of strut aside.

6. From the inside of the liftgate, verify whether two square mounting holes and a central camera pass through opening 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 10 & 11).

7. Close the liftgate. Taking care not to damage the body panel, insert plastic trim removal tool into the base of existing emblem to pry it off (Figure 4).

Figure 4



Figure 1

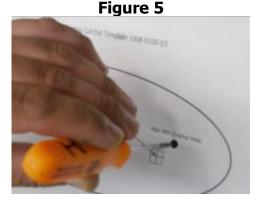


Section 1: Camera Mount Preparation continued

8. Remove any adhesive remaining on the liftgate.

9. If two camera mounting holes and a camera harness opening were present in the existing liftgate, proceed to Section 2. If not, align the supplied 1008-9100-04 template to the two existing emblem locating holes and camera harness opening.

10. Mark and center punch the location for the two retaining clip holes (Figure 5).

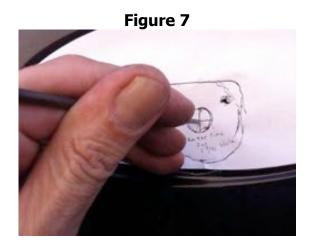


11. Drill the two retaining clip holes with a 3/8 inch drill bit. Use a small flat file to square the drilled holes for the retaining clips (recommended method). Alternate method: Drill the two holes with a 1/8 inch drill bit and use sheet metal screws (not supplied in kit) to secure the camera mount.

12. Apply supplied Z-tech to exposed bare metal with a small brush, and insert supplied retaining clips (Figure 6).



13. Mark, center punch, and drill a pilot hole for the camera mount harness opening (Figure 7). Using a 1³/₄ inch hole saw, cut the camera harness opening. Trial fit camera mount and file opening as necessary.



14. Clean the rough edges of the opening with a round file or deburring tool.



Section 2: Camera Installation

15. Test fit the camera mount in the factory tailgate opening. If the camera mount does not fit flush, determine where the mount is contacting the edges of the opening and use a flat metal file to enlarge it. Work slowly, checking often for fit.

16. Clean the rough edges of the enlarged opening with a deburring tool or round file.

17. Apply supplied Z-tech to any exposed bare metal with a small brush (Figure 8).



Figure 8

18. Route the camera harness through liftgate opening.

19. Using the two supplied 7mm screws, attach camera mount to liftgate (Figure 9).



20. Route the light gray connector end of the camera harness along the inner liftgate structure toward the driver side of the liftgate opening.





Section 3: Chassis Harness Installation

21. Using a plastic trim removal tool, loosen two access covers in the D-pillar trim panel to expose two 7mm bolts (Figure 10)

Figure 10

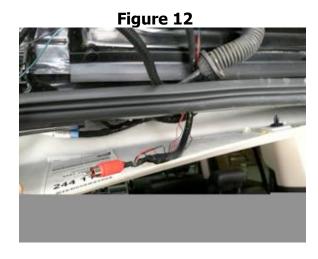


22. Remove the two bolts with a 7mm socket, and loosen the driver side upper D-pillar trim panel by peeling back weather stripping slightly and releasing the retaining clips (Figure 11).



23. If necessary, use a razor knife to cut a small slit in the liftgate wiring grommet to assist in the routing of the chassis harness wiring trough the grommet.

24. Run the RCA connector end of the chassis harness through the opening you cut in the grommet and out through the other open end of the grommet. A pair of pliers may be required to pull the connector and harness through the opening (Figure 12).



25. Route the light gray chassis harness camera connector end of the chassis harness toward the light gray connector on the camera harness and connect (Figure 13).

Figure 13





Section 3: Chassis Harness Installation continued

26. Pull down rear edge of headliner slightly to route chassis harness inside and towards the driver side D-pillar.

27. Remove driver side C-pillar trim panel with a trim removal tool (Figure 14).



28. Partially unclip driver side lower quarter panel trim.

29. Route chassis harness forward taking care not to bind the cable when replacing the trim.

30. Remove the driver side rear door sill plate with a trim tool.

31. Loosen driver side rear door weather strip.

32. Remove 5.5mm screw and loosen driver side lower C-pillar trim.

33. Loosen driver side lower B-pillar trim panel with hands.

34. Continue routing chassis harness forward, taking care not to pinch wiring between trim pieces.

35. Remove the driver side front door sill plate with a trim tool.

36. Route remainder of chassis harness towards dash.

Section 4: Ignition, Reverse and Ground Locations

- **37.** If needed, install aftermarket display or navigation display per instructions.
- **38.** Remove driver side kick panel.
- **39.** Splice the green reverse wire from the supplied chassis harness to the wire listed in Connector C925 diagram on page 8. Solder and cover the connection with tape or heat shrink tubing.
- **40.** Attach the black ground wire eyelet from the supplied chassis harness to sheet metal with an existing screw using an 8mm socket (Figure 15).



- **41.** Splice the red ignition wire from the supplied chassis harness to the wire listed in Connector C925 diagram on page 8. Solder and cover the connection with tape or heat shrink tubing.
- **42.** Connect the male RCA from the chassis harness to the camera IN on the aftermarket display or navigation display. In some cases a RCA extension may be required.

43. Coil and secure any excess chassis harness with remaining wire ties (Figure 16)



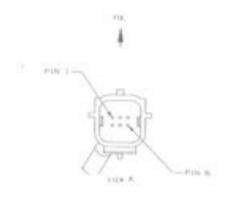


- **44.** Start the vehicle and shift into reverse. If all of the connections are correct an image will appear on the aftermarket display or navigation display.
- **45.** Reinstall all previously removed interior and exterior parts.
- **46.** Press the supplied emblem into the liftgate camera mount.

Section 4: Ignition, Reverse and Ground Locations continued

nline C925	Description Inline	Color GY	Base P	Part # Service Pigtail Not Available	
	MALE Harness 14A005			FEMALE Harness 14334	
	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Pin Circuit	Gauge Qualifie	Pin Circuit Function	Supplied Chassis Harness Color
		4 5 6 VMC31 (GY-E 7 VMM13 (YE-C 6 CLS10 (GN-B 9 VLN33 (GY-V 10	* * * N) 22 N) 22 N) 20 - T) 20 *	8 Relay – Reverse Lamps	Green
		11 * GD133 (BK 12 GD133 (BK 13 GBP41 (BU 14 * 15 * 15 * 15 * 15 * 15 * 15 * 15 *) 20 · · · · · · · · · · · · ·	12 Ground – A Pillar Left 13 Fuse – 41 or Circuit Breaker	Black Red (12V + Ignition
		22 CLN09 (YE-0 22 CLN09 (YE-0			

Section 5: 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	provic	led	in the
Supp	lied Ch	assis	Ha	rness
				-

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

Template number 1008-9100-02 dated 8-31-10 (F-150)



