



LED Warning Strobes by SoundOff Signal

Make your truck more visible with 360
degree dual beacons

**F-150 (2014-2022)
DUAL BEACON 360 DEGREE LIGHTING KIT**

ETBCLK10zzzB1

zzz represents the LED and Lens color of the beacon(s)

1.9" Beacons

- AAL = Amber LED with Amber Lens x2
- AAC = Amber LED with Clear Lens x2
- BBL = Blue LED with Blue Lens x2
- BBC = Blue LED with Clear Lens x2
- GGL = Green LED with Green Lens x2
- GGC = Green LED with Clear Lens x2
- RRC = Red LED with Clear Lens x2
- WWC = White LED with Clear Lens x2
- AWC = Amber and White LED, both with Clear Lens
- ABC = Amber and Blue LED, both with Clear Lens
- ARC = Amber and Red LED, both with Clear Lens
- AGC = Amber and Green LED, both with Clear Lens
- RWC = Red and White LED, both with Clear Lens
- RBC = Red and Blue LED, both with Clear Lens

3.5" Beacons

- ETBCHK10AACB1 = Amber LED with Clear Lens x2



1.9" Beacon

3.5" Beacon



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Product





IMPORTANT NOTICE TO INSTALLER: Make sure to read and understand all instructions and warnings before proceeding with the installation of this product. Proper installation of the lights requires the installer to have a thorough knowledge of automotive electronics, systems, and procedures. The LED lights provide an essential function of an effective visual warning system. The use of the light assemblies does not insure that all drivers can or will abide by or react to an emergency warning signal, especially at high rates of speeds or long distances. The operator of the vehicle must never take the right of way for granted and it is the operator's responsibility to proceed safely. The effectiveness of the light assemblies are highly dependent on the correct mounting and wiring. The installer must read and follow the manufacturer's installation instructions and warnings in the manual. The vehicle operator should verify daily that the lights are securely fastened to the vehicle and properly functioning before operating vehicle. It is the user's responsibility to ensure they understand and operate the emergency warning devices in compliance with the applicable city, state and federal laws and regulations. SoundOff Signal assumes no liability for any loss resulting from the use of this warning device.



DUAL BEACON LED WARNING LIGHT LIMITED WARRANTY

All Ford part numbers provided by SoundOff Signal are warranted to be free from defects in materials or workmanship on products properly installed per the installation instructions provided with the product. This warranty period covers repair or replacement of any defective product at no charge during the applicable warranty period listed below. Labor for replacement or service of defective product is not paid or reimbursed by SoundOff Signal.

WARRANTY PERIOD

	USA	Outside USA
Product which appears on the New Vehicle Monroney Label (window sticker)	3 years or 36 000 miles whichever comes first	3 years or 60 000 kilometers whichever comes first
Part purchased and installed during or after the original vehicle warranty	Whichever of the following two options is greater: 1) 2 years/unlimited mileage, or 2) The remainder of the new vehicle warranty	Whichever of the following two options is greater: 1) 2 years/unlimited kilometers, or 2) The remainder of the new vehicle warranty

This limited warranty does not cover any damage, defect or malfunction caused by misuse, abuse, accident, improper installation, modification, or improper or lack of maintenance. Incidental and consequential damages are not recoverable under this warranty. This warranty offers you specific legal rights. You may have additional or other rights as which vary from state to state or province to province.

If you experience a warranty issue with this product, please visit your Ford Dealer. If the repair is covered by the warranty above and completed by the dealership, labor is also covered -Ford Warranty and Policy -- Section 3. Please note that SoundOff Signal has replacement component parts available to assist consumers and dealers to resolve warranty and non-warranty issues as quickly as possible.

Note to dealer

Ford dealers should contact SoundOff Signal by phone at 800.338.7337 or by email to: techservices@soundoffsignal.com.











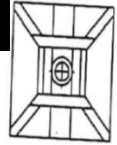



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Tools Required

- Ratchet & Sockets (7, 10 & 13mm & 7/32")
- Wire cutter
- 3/32" Allen Wrench
- Auto Trim panel removal tool set
- Nm Torque wrench
- Torx bit T20
- Torx bit T50 (Regular Cab Only)

Contents

<p>A</p>  <p>CHMSL MOUNTING SCREW 4x</p>	<p>B</p>  <p>BASE MOUNTING SCREW 4x</p>	<p>C</p>  <p>BEACON MOUNTING SCREW 6x</p>	<p>D</p>  <p>MOUNTING BRACKET 4x</p>	<p>E1</p>  <p>SIDE PANEL LABEL 1x</p>	<p>E2</p>  <p>HOLE LABEL SEAL 2x</p>
<p>F</p>  <p>MOUNTING PLATE 2x</p>	<p>G</p>  <p>ZIP TIES 10x</p>	<p>H</p>  <p>ACETONE WIPE 1x</p>	<p>I</p>  <p>FOAM PAD 2x</p>	<p>J</p>  <p>ZIPTIE ANCHOR 4x</p>	<p>K</p>  <p>WARNING CARD 1x</p>

L



BEACON (in a box) 2x

M




BEACON BASE WITH GASKET 1x

N



BEACON HOUSING 1x

O



SIDE PANEL WITH SWITCH 1x
HARNESS - 'O'

P

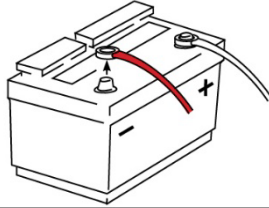


HARNESS - 'P' 1x



Read and understand all instructions before starting

1



IMPORTANT:
REMOVE NEGATIVE
CABLE FROM BATTERY
USING 10MM SOCKET

FOR DUAL BATTERIES, REMOVE TERMINALS ON BOTH BATTERIES

IMPORTANT

THE INSTALLATION OF THIS STROBE KIT WILL INCREASE THE OVERALL HEIGHT OF YOUR VEHICLE. PAY ATTENTION TO YOUR SURROUNDINGS SO AS TO NOT CAUSE DAMAGE TO THE STROBES OR YOUR VEHICLE.

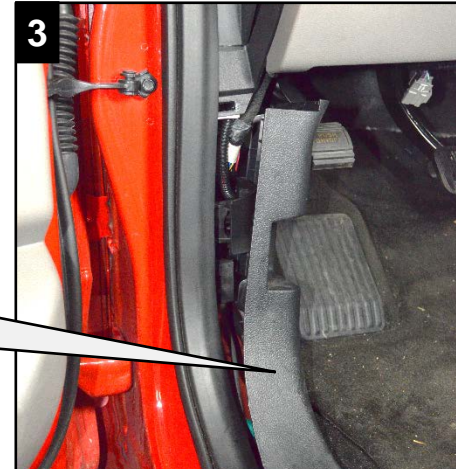
2



REMOVE
ROCKER TRIM
PANEL

REMOVE ROCKER PANEL FROM FRONT AND REAR DRIVER SIDE

3



REMOVE
SIDE TRIM
PANEL

REMOVE SIDE TRIM PANEL
LOCATED BY EMERGENCY-BRAKE



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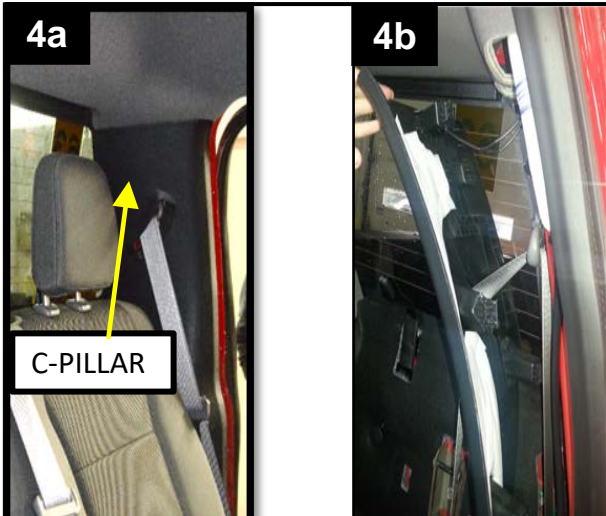
LED CHMSL
REFER TO SUPPLEMENT STEPS A-G FOR
ASSISTANCE CONNECTING AND
RECONNECTING AN LED WIRE HARNESS

IMPORTANT

DISCARD SCREWS ONCE REMOVED, THEY
WILL NOT BE USED AGAIN
(THEY WILL BE REPLACED WITH SCREW 'A')

IMPORTANT

REMOVE AND DISCARD THE
FOUR PLASTIC SCREW ANCHORS



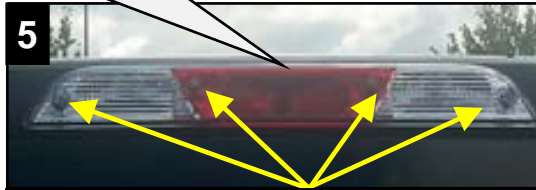
4a

4b

C-PILLAR

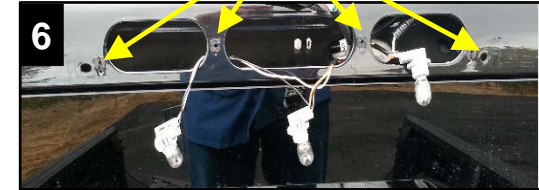
AT TOP OF C-PILLAR, GENTLY UNCLIP TRIM FROM
CAB ALLOWING ACCESS TO ROUTE HARNESS.
TRIM ONLY NEEDS TO BE UN-CLIPPED.

****DO NOT REMOVE PANEL FULLY**
*****DO NOT REMOVE PANEL TETHER.**



5

REMOVE CHMSL SCREWS (4)
[Torx T-20 or 7mm SOCKET]



6

DISCONNECT BULBS (3) AND REMOVE
PLASTIC SCREW ANCHORS (4)



7

USE 6' OF FISH TAPE TO ROUTE HARNESS 'P'
DOWN THROUGH CENTER CAB ACCESS HOLE & TOWARD
DRIVER SIDE C-PILLAR

ROUTE HARNESS 'P'
SINGLE CONNECTOR SIDE
THROUGH CENTER CAB
ACCESS HOLE, LEAVING
THE TWO CONNECTORS
ACCESSIBLE

IMPORTANT
ONLY FEED HARNESS 'P'
ENOUGH SO IT CAN BE
ACCESSED BY THE DRIVER SIDE
C-PILLAR. DO NOT PULL TIGHT
YET AS SLACK IS NEEDED TO
FINISH INSTALL BY THE CHMSL.

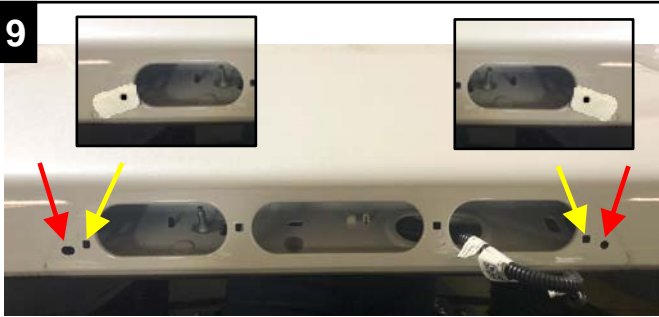
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9



REMOVE EACH LABEL "E2" FROM THE LINER AND ADHERE TO THE VEHICLE, BY ALIGNING THE LABEL HOLE WITH THE INSIDE VEHICLE HOLE AND COMPLETELY COVERING THE OUTSIDE VEHICLE HOLE

11



THE ACETONE WIPE WILL REMOVE ANY SILICONE WAX AND WILL ALLOW PROPER ADHESION

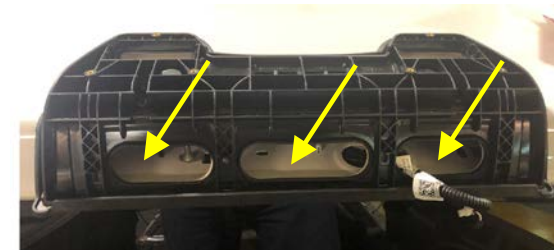
MAKE NOTE OF WHERE THE CUTOUTS ARE ON THE TOP OF THE CAB. REMOVE THE BEACON BASE AND WIPE IN THE NOTED LOCATIONS WITH THE ACETONE WIPE, 'H'.

8



CLEAN THE ENTIRE SURFACE AROUND THE CHMSL USING A STANDARD CLEANING SOLUTION

10



PLACE THE BEACON BASE WITH GASKET, 'M', ON THE VEHICLE, ALIGNING THE THREE OVAL CUTOUTS

11A



AFTER THE ACETONE HAS DRIED, PLACE THE BEACON BASE BACK ON THE VEHICLE

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12 THE BEACON BASE WILL NOW BE CLAMPED TO THE VEHICLE

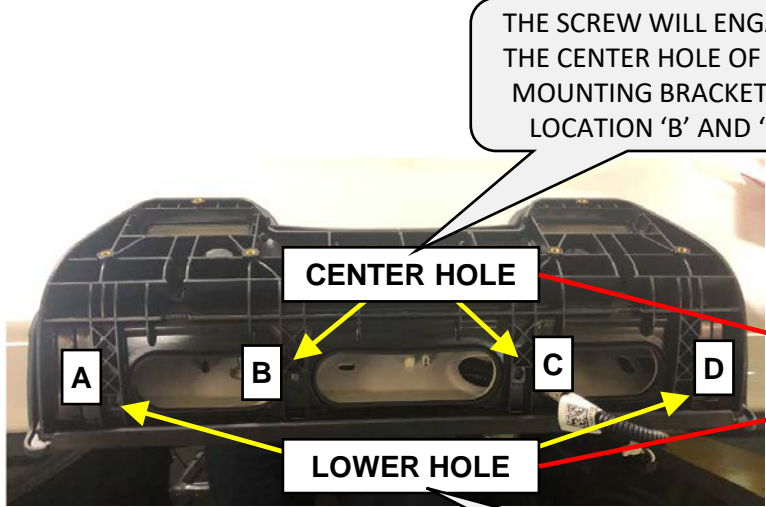


13 PUT YOUR FINGER THROUGH THE BACK OF A MOUNTING BRACKET, 'D', AND POSITION IT AT ONE OF THE LOCATIONS A, B, C, OR D



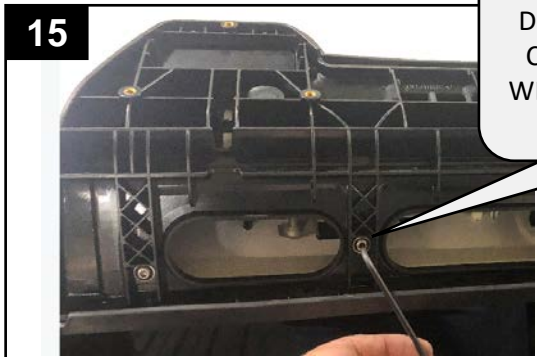
14 USING SCREW 'B', PUSH IT THROUGH THE BEACON BASE HOLE UNTIL IT ENGAGES WITH THE MOUNTING BRACKET. HAND TIGHTEN UNTIL THE MOUNTING BRACKET IS HELD IN PLACE

IMPORTANT THE SCREW WILL PINCH YOUR FINGER, SO ONLY HAND TIGHTEN UNTIL YOUR FINGER IS REMOVED



THE SCREW WILL ENGAGE THE CENTER HOLE OF THE MOUNTING BRACKET AT LOCATION 'B' AND 'C'

THE SCREW WILL ENGAGE THE LOWER HOLE OF THE MOUNTING BRACKET AT LOCATION 'A' AND 'D'



15 REMOVE YOUR FINGER AND TIGHTEN UNTIL SNUG WITH T-20 Torx OR 7mm SOCKET

IMPORTANT DO NOT TORQUE DOWN COMPLETELY YET. THIS WILL BE DONE AT A LATER STEP



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DRIVER SIDE	PASSENGER SIDE
AMBER	WHITE
AMBER	GREEN
AMBER	RED
AMBER	BLUE
RED	WHITE
RED	BLUE

WHEN INSTALLING BEACONS OF DIFFERENT COLOR, REFER TO THIS TABLE FOR PLACEMENT



THE LED COLOR OF THE BEACON IS LISTED ON THE FLAG LABEL ATTACHED TO THE HARNESS

20



FEED THE WIRE HARNESS OF EACH BEACON, 'L' THROUGH ITS RESPECTIVE SIDE ON THE BEACON HOUSING 'N'

21



ALIGN THE GASKET NOTCH WITH THE NOTCH ON THE HOUSING

22



PULL THE BEACON HARNESS THROUGH THE HOUSING AS YOU ALIGN THE NOTCH IN THE BEACON WITH THE OTHER NOTCHES

THE BEACONS ARE NOT TO BE SCREWED DOWN YET, THAT WILL BE IN STEP 25

IMPORTANT

IF WAITING TO REMOVE THE PROTECTIVE FILM ON THE BEACON, ENSURE IT DOES NOT GET TRAPPED DURING INSTALLATION



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23



PLACE THE BEACON HOUSING OVER
THE BEACON BASE

IMPORTANT

PULL ON THE BEACON HARNESS, WHILE
ROUTING, TO ELIMINATE THE SLACK

24



AS THE HOUSING IS LOWERED ONTO THE
BASE, ENSURE THE BEACON HARNESSES ARE
IN THE DESIGNED CHANNEL SO AS TO AVOID
PINCHING ANYTHING

25



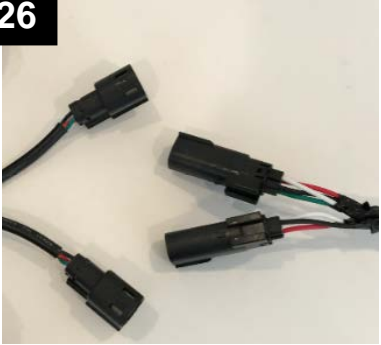
TORQUE ALL THREE SCREWS, 'C', ON
EACH BEACON TO $1.2 \pm .05$ NM USING A
3/32" ALLEN WRENCH

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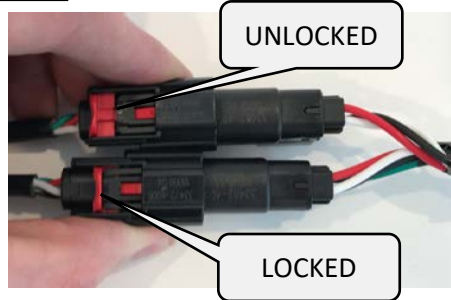
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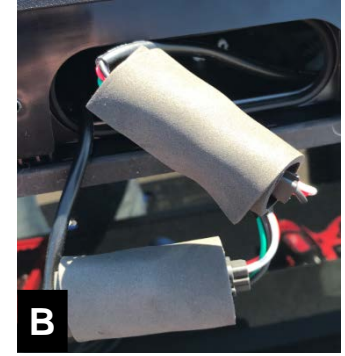
ATTACH THE TWO BEACON CONNECTORS TO HARNESS 'P'

27



SLIDE BOTH RED TABS TO LOCK CONNECTORS

28



WRAP CONNECTORS IN FOAM, 'I', AND THEN TUCK INTO THE CAB

29



PULLING HARNESS 'P' FROM THE DRIVER SIDE C-PILLAR, REMOVE THE SLACK TO THE POINT WHERE THE WRAPPED CONNECTORS ARE STILL ACCESESIBLE IN CASE OF FUTURE USE NEEDS



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30



RECONNECT BULBS

31



ENSURE UNIFORM ALIGNMENT, HOLD WITH HAND PRESSURE COMPRESSING FOAM TO **PREVENT WATER LEAKS** & INSERT SCREWS 'A' AND TORQUE TO 2.0 ± 0.3 NM with T-20 Torx or 7 mm socket

32

AIRBAG



MOUNT ZIP TIE ANCHORS IN THE FOUR LOCATIONS SHOWN WITH THE ARROWS

IMPORTANT

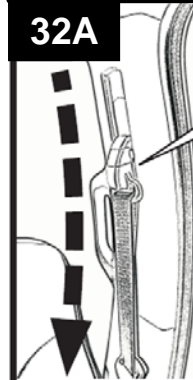
DO NOT REMOVE PANEL TETHER FROM AIR BAG OPERATION. MAKE SURE WIRE HARNESS IS ROUTED BEHIND SEAT BELT AND DOES NOT INTERFERE WITH AIR BAG AND SEAT BELT OPERATION

Regular Cab (only)

32A

IMPORTANT:

TORQUE SEATBELT CLIP TO 40 Nm +/- 6 Nm WHEN RE-ASSEMBLING



NOTE:

PLACE ANY EXTRA WIRE FROM 14 FOOT HARNESS ROLLED UP BEHIND BOTTOM OF 'D' PILLAR. ON EXTENDED CABS PLACE ADDITIONAL WIRE BEHIND KICKPANEL ON DRIVER'S SIDE.

NOTE: REGULAR CABS ONLY

MAKE SURE SEAT BELT IS ADJUSTED TO TOP AND WIRE DOES NOT CAUSE RESTRICTION TO SEAT BELT ADJUSTER.

NOTE: EXTENDED CABS ONLY

REMOVE SEAT BACK PRIOR TO REMOVING TRIM PANEL

A. REMOVE SEAT BELT AND SIDE PANEL USING A T-50 TORX BIT.

IMPORTANT

DO NOT REUSE THE FACTORY SCREWS THAT WERE REMOVED IN STEP #5. USE THE PROVIDED SCREWS 'A'



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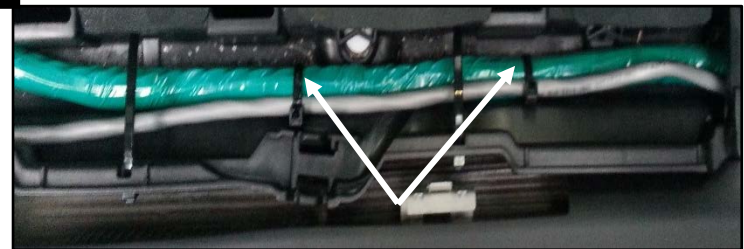
ROUTE HARNESS 'P' ALONG THE
EXISTING HARNESS, ZIP TIEING TO THE
FOUR ANCHORS

34



CONTINUE TO ROUTE HARNESS 'P' THROUGH THE RAIN GUTTER,
NEXT TO EXISTING VEHICLE HARNESS, ALL THE WAY TO THE
DRIVER SIDE TRIM PANEL THAT WAS REMOVED IN STEP 3

35



ZIP TIE HARNESS 'P' TO EXISTING STOCK HARNESS
IN THE FOLLOWING PLACES.



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36



REMOVE FACTORY TRIM PANEL

37



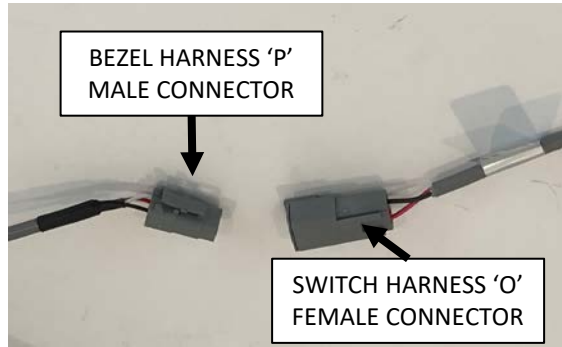
AFTER REMOVAL OF FACTORY TRIM PANEL, REPLACE WITH TRIM PANEL WITH SWITCH. RUN HARNESS 'O' DOWN TOWARD HARNESS 'P' CONNECTOR



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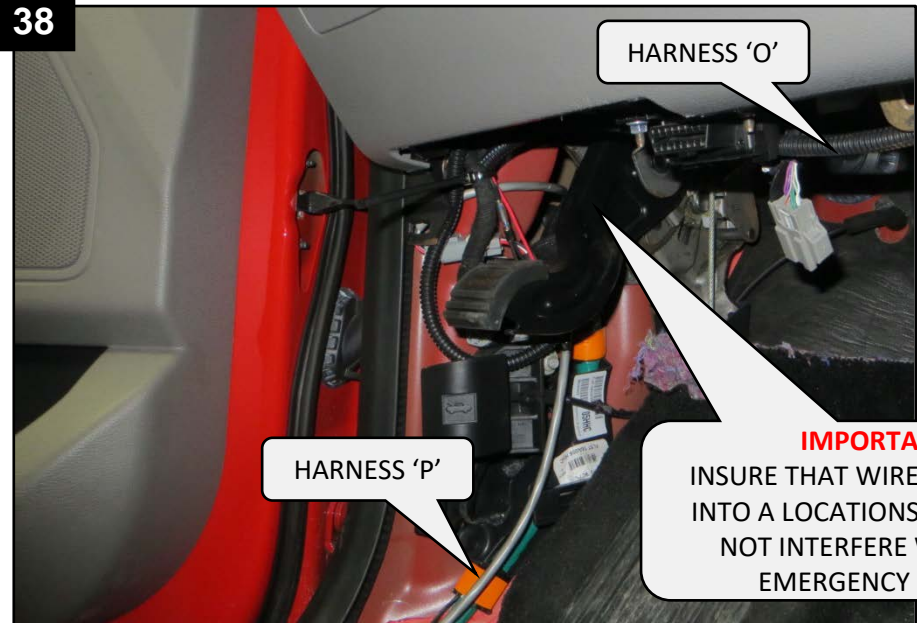
38A



BEZEL HARNESS 'P'
MALE CONNECTOR

SWITCH HARNESS 'O'
FEMALE CONNECTOR

38



HARNESS 'O'

HARNESS 'P'

IMPORTANT

INSURE THAT WIRE IS SECURED
INTO A LOCATIONS THAT DOES
NOT INTERFERE WITH THE
EMERGENCY BRAKE

PUSH HARNESS 'P' MALE CONNECTOR INTO
HARNESS 'O' FEMALE CONNECTOR UNTIL THEY LOCK

39



ZIPTIE HARNESS 'O' UNDER STEERING WHEEL

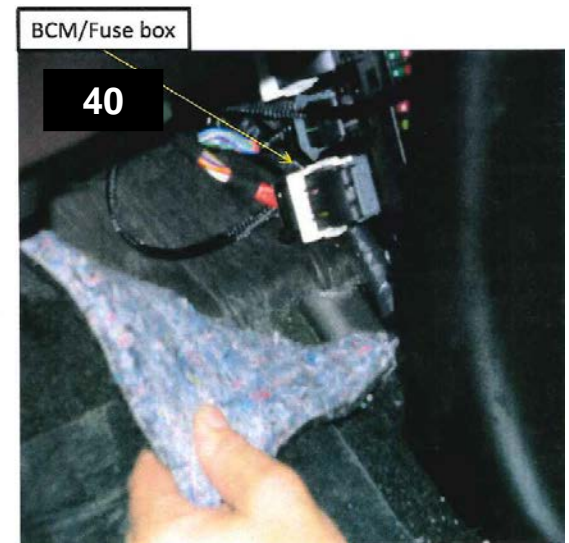
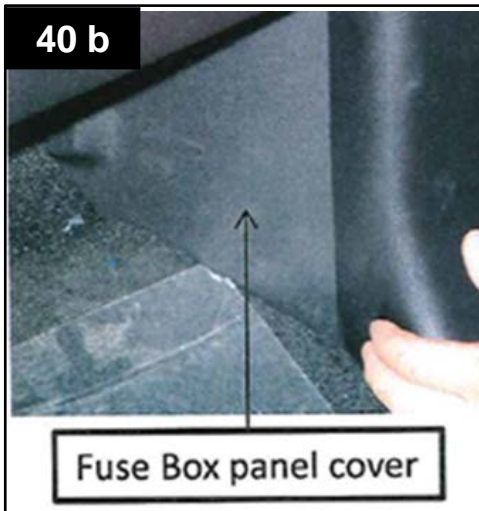
ROUTE POWER & GROUND HARNESS 'O' THROUGH CENTER
CONSOLE TO FUSE BOX LOCATED ON PASSENGER SIDE OF VEHICLE.
SECURE WIRE HARNESS WITH ZIP TIES. FISH TAPE CAN BE USED AS
AN AID TO PULL HARENESS THROUGH CENTER CONSOLE.

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RUN-START WIRE/CONTACT INSTALLATION

1. REMOVE FUSE BOX PANEL COVER.
2. PULL BACK UPPER RIGHT CORNER OF CARPETING NEXT TO BCM/FUSE BOX AS SHOWN BELOW.
3. THIS ALLOWS ACCESS TO BCM/FUSE BOX.

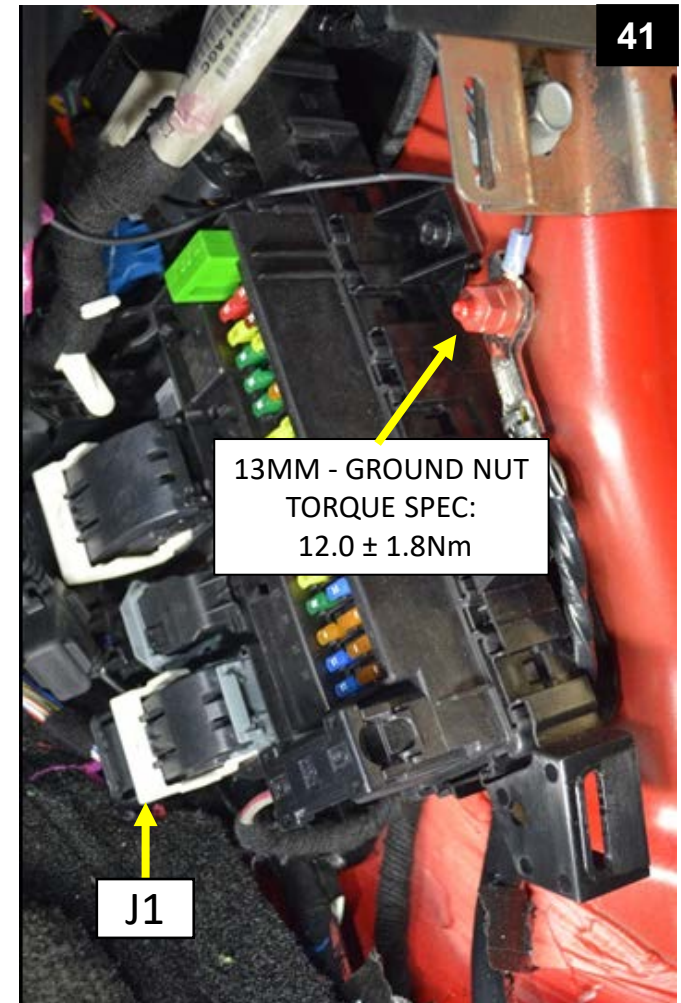
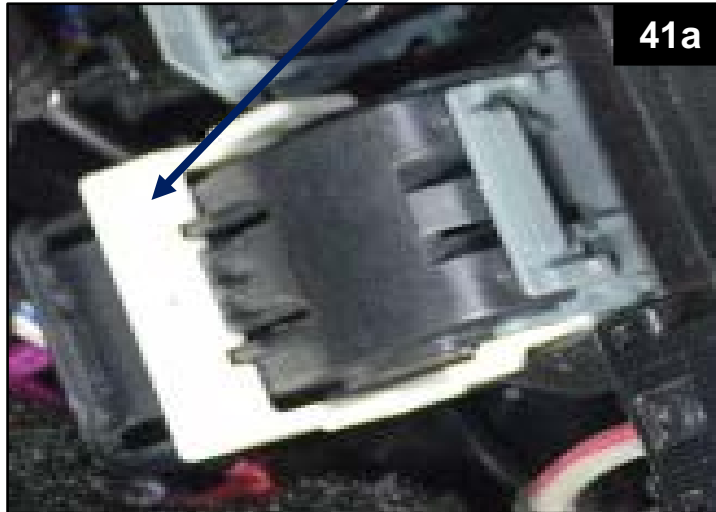




(continued) RUN-START WIRE/CONTACT INSTALLATION

1. LOCATE BCM/FUSE BOX IN PASSENGER FOOT WELL
2. IDENTIFY J1 IN THE BCM.
3. LEVELER LOCKS J1 IN PLACE, PUSH IN LOCK RELEASING LEVELER.
4. ROTATE LEVELER TO RELEASE & REMOVE J1 FROM THE BCM.

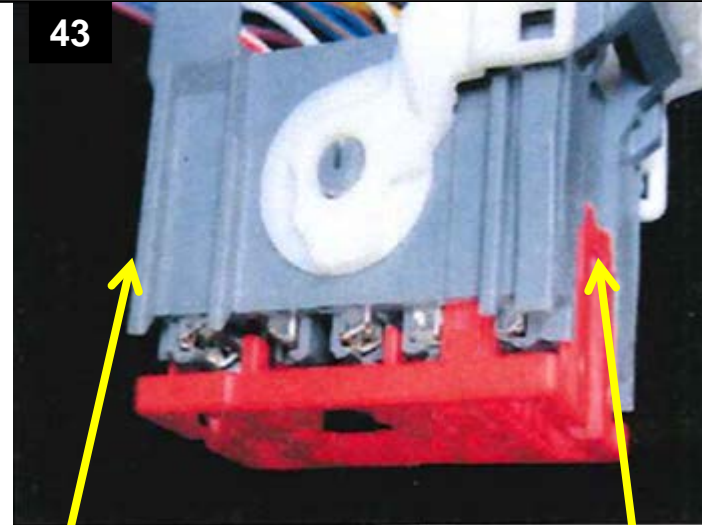
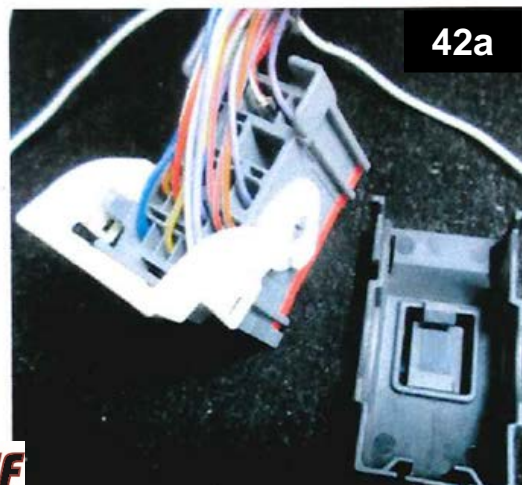
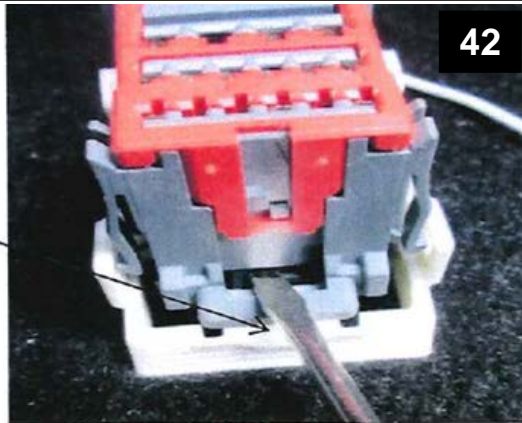
Push in lock to release



(continued) RUN-START WIRE/CONTACT INSTALLATION

- REMOVE J1 DARK GRAY DRESS COVER & RELEASE THE RED WEDGE

RELEASE DARK GRAY DRESS COVER BY CUTTING ZIP-TIE & USING A SMALL FLAT HEAD TOOL THEN CAREFULLY LIFT OFF COVER.



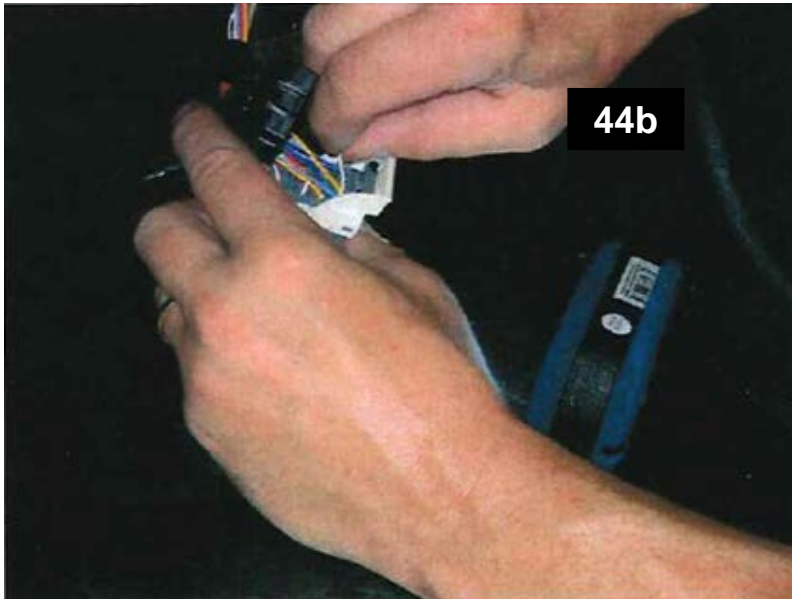
WITH SLIGHT PRESSURE, GENTLY PRY RED END TABS ON BOTH SIDES ONLY TO CLEAR THE 2ND STEP FEATURE ON CONNECTOR TO RELEASE MECHANISM. RED WEDGE WILL ONLY MOVE ABOUT $\frac{1}{4}$ " BEFORE STOPPING.

IMPORTANT: TABS WILL BREAK IF PRIED EXCESSIVELY.

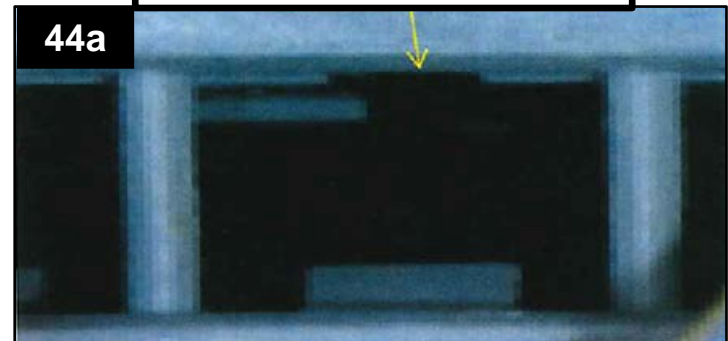


(continued) RUN-START WIRE/CONTACT INSTALLATION

1. LOCATE J1 TERMINAL 2. NOTE CHANNEL IN OPENNING.
2. CHECK RUN-START WIRE IS RUN AS CLOSE TO BCM BEHIND VEHICLE HARNESS WITH A CLEAR PATH TO J1.
3. INSERT THE RUN-START CONTACT INTO J1-2 ALINGNING THE CONTACT LOCKING TAB IN THE CHANNEL.
4. PUSH IN CONTACT USING "PUSH CLICK PUSH" METHOD.



CHANNEL IN OPENING

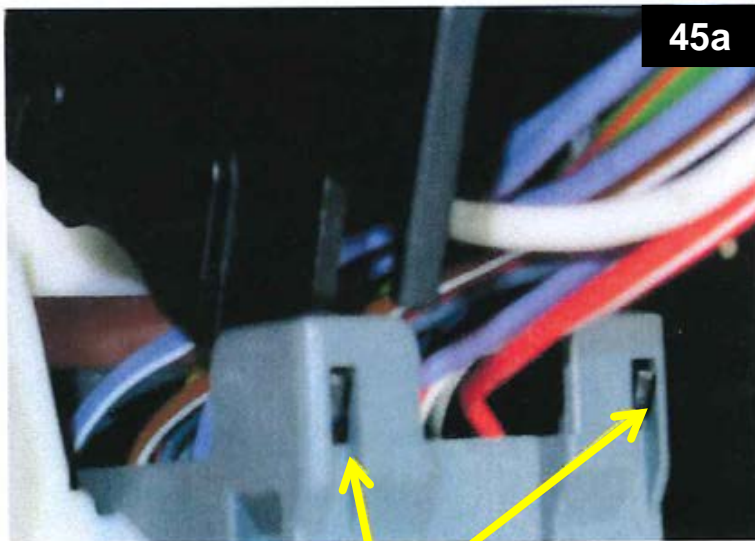




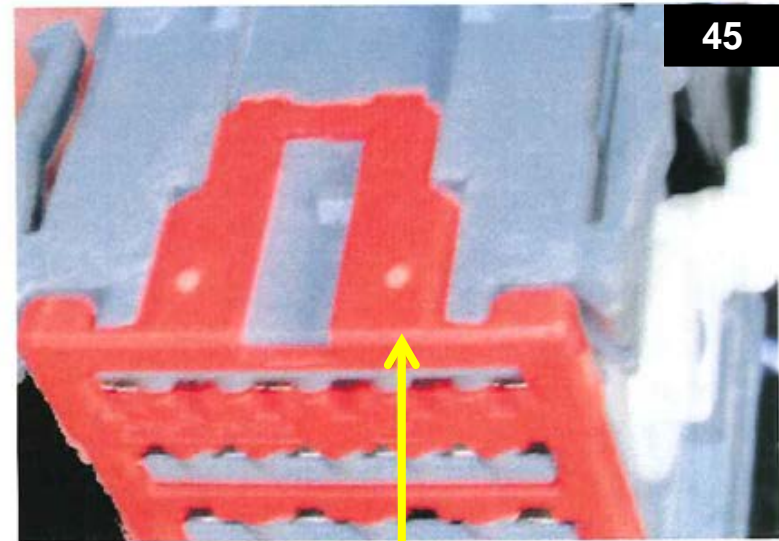
(continued) RUN-START WIRE/CONTACT INSTALLATION

REASSEMBLE J1 IN REVERSE ORDER

1. INSERT DRESS COVER HINGE TABS INTO J1 CONNECTOR HOUSING & LATCH COVER.
2. RESEAT J1 RED WEDGE.



Dress cover hinge tabs



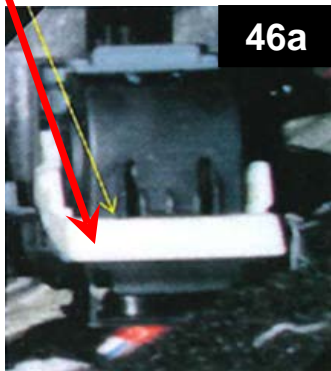
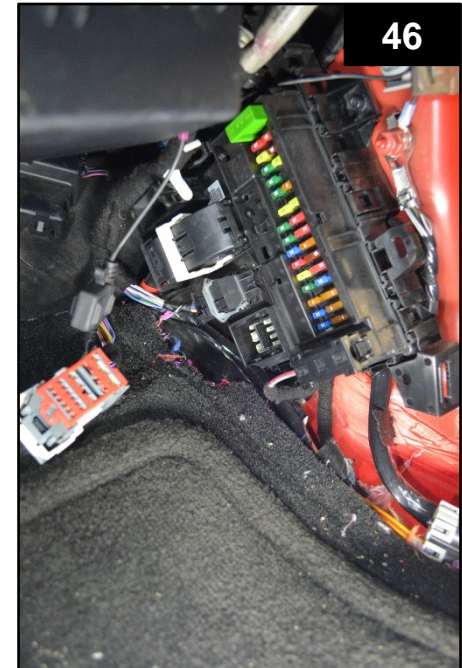
Red Wedge

(continued) RUN-START WIRE/CONTACT INSTALLATION

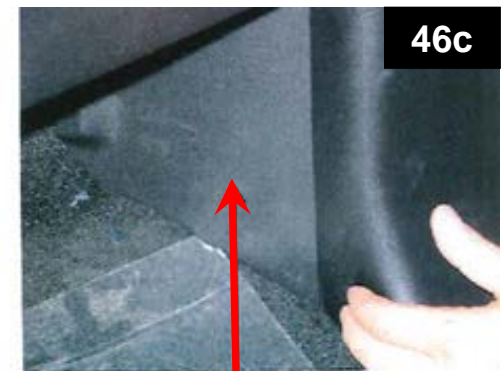
1. RE-INSERT J1 INTO BCM – PUSH IN ON CRESS COVER TO SEAT CONNECTOR, THE LOCKING LEVELER WILL ROTATE INTO CLOSED POSITION.
2. ENSURE J1 IS FULLY SEATED & PUSH LOCKING LEVELER INTO ORIGINAL POSITION TO LOCK J1 CONNECTOR.

IMPORTANT: DO NOT APPLY PRESSURE TO LOCKING LEVELER OR IT WILL BREAK.

3. SECURE RUN-START TO BCM J1 HARNESS USING BLACK TAPE.
4. RE-INSTALL FUSE BOX PANEL COVER & RESET CARPET.



Run-start secured to BCM J1 harness



Fuse Box panel cover



INSTALL SIDE PANEL LABEL 'E1'
(IF DESIRED)



INSTALL WARNING CARD,
'K', IN GLOVE BOX

1. PLACE APPLICABLE LABELS IN THE NOTED LOCATIONS ABOVE
2. REINSTALL ALL TRIM PIECES THAT WERE REMOVED FOR THIS INSTALLATION.
3. RECONNECT BATTERY

OPERATION

- WITH THE VEHICLE KEY IN ACCESSORY OR IN THE ON POSITION, FLIPPING THE SWITCH WILL CAUSE THE BEACONS TO START ALTERNATELY FLASHING
- UPON STARTUP, IT MAY TAKE THE BEACONS A FEW SECONDS TO SYNC BEFORE THEY PROPERLY ALTERNATELY FLASH
- THE LED ON THE SWITCH WILL BE ILLUMINATED WHEN THE BEACONS ARE FLASHING



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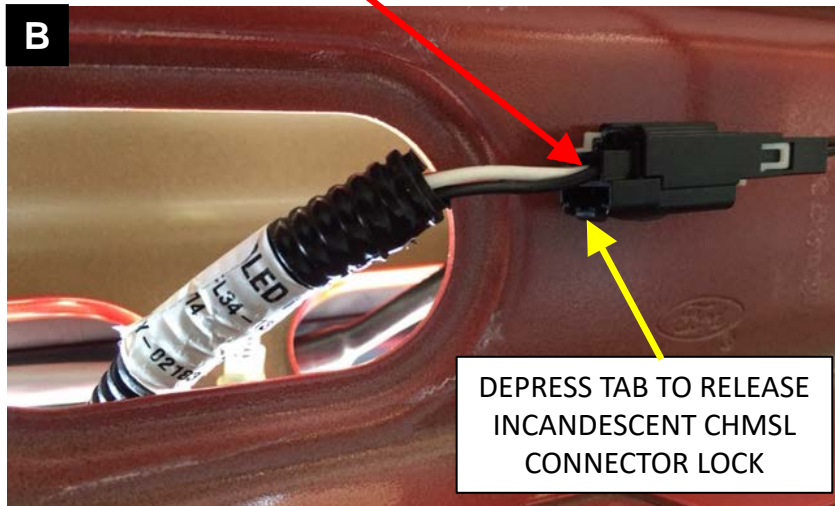
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LED CHMSL SUPPLEMENT

LED CHMSL WIRE HARNESS WILL NEED TO BE DISCONNECTED & RECONNECTED INSIDE THE CAB. ALL OTHER STEPS ARE THE SAME AS THE INCANDESCENT CHMSL.



A
PULL BACK HEADLINER TO EXPOSE CHMSL CONNECTOR



B
DEPRESS TAB TO RELEASE INCANDESCENT CHMSL CONNECTOR LOCK



C
ONCE CONNECTOR IS DISENGAGED, REFERENCE STEPS 18-24



LED CHMSL SUPPLEMENT



D
FEED CHMSL HARNESS THROUGH BEZEL & DOWN INTO CABIN ACCESS HOLE.



E
CHMSL HARNESS TO CABIN ACCESS HOLE
LED CHMSL – PREVENT LIGHT FLASH BACK INTO CABIN BY TAPING OVER ACCESS HOLE.



F
REATTACH CONNECTOR



G

AFTER CONNECTOR IS REATTACHED, REFER TO PROCESS STEPS 25 - 31

Notes



Notes





Important
PLACE THIS
INSTRUCTION SHEET
INTO GLOVE BOX

