

# LED Warning Strobes by SoundOff Signal®

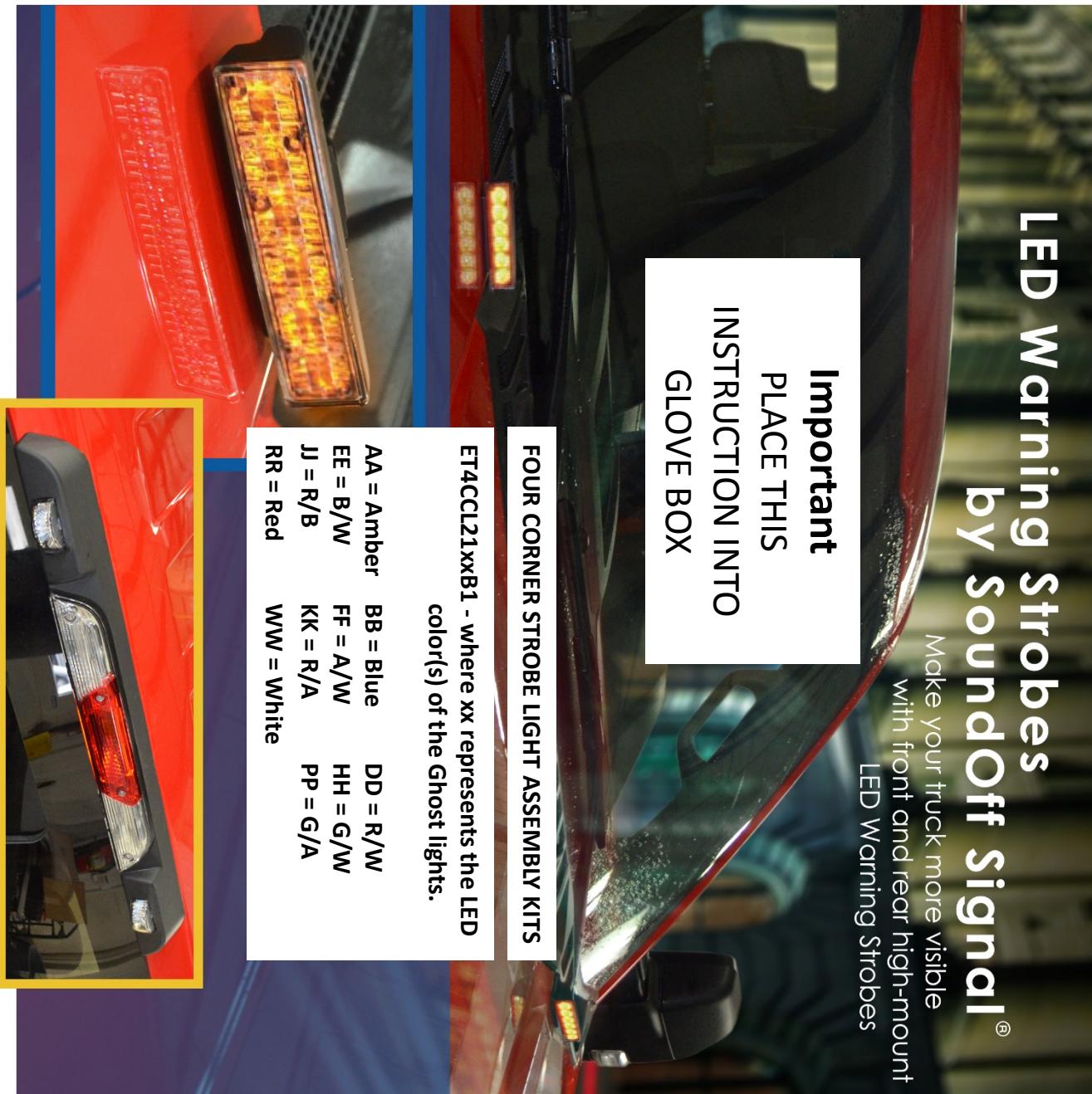
Make your truck more visible  
with front and rear high-mount  
LED Warning Strobes

**Important**  
PLACE THIS  
INSTRUCTION INTO  
GLOVE BOX

## FOUR CORNER STROBE LIGHT ASSEMBLY KITS

ET4CCL21xxB1 - where xx represents the LED  
color(s) of the Ghost lights.

AA = Amber	BB = Blue	DD = R/W
EE = B/W	FF = A/W	HH = G/W
JJ = R/B	KK = R/A	PP = G/A
RR = Red	WW = White	



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**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.

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**AVISO IMPORTANTE PARA INSTALADOR:** Asegúrese de leer y comprender todas las instrucciones y advertencias antes de proceder con la instalación de este producto. La correcta instalación de las luces se requiere que el instalador tenga un profundo conocimiento de electrónica de automóviles, sistemas y procedimientos. Las luces de LED proporcionan una función esencial de un eficaz sistema de alerta visual. El uso de los conjuntos de luces no asegura que todos los conductores pueden o se acata ni reaccionar a una situación de emergencia señal de advertencia, especialmente por las altas tasas de velocidad o largas distancias. El operador del vehículo nunca debe tener el derecho de paso para concedido y el operador es el responsable de proceder con seguridad. La eficacia de los conjuntos de luces son altamente dependientes de la correcta fijación y el cableado. El instalador debe leer y seguir las instrucciones de instalación del fabricante y las advertencias en el manual. El operador del vehículo debe comprobar diariamente que las luces se encuentren ajustadas de manera segura en el vehículo y que funcione correctamente antes de poner en funcionamiento el vehículo. Es responsabilidad del usuario asegurarse de que entienden la emergencia y operar dispositivos de advertencia en el cumplimiento de la ciudad, las leyes y reglamentos estatales y federales. SoundOff Signal no asume ninguna responsabilidad por cualquier pérdida que resulte del uso de este dispositivo de aviso.

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**AVIS IMPORTANT POUR L'INSTALLATEUR :** Lisez et comprenez toutes les instructions et mises en garde avant de procéder à l'installation de ce produit. L'installateur doit posséder d'excellentes connaissances de l'électronique, des systèmes et des procédures de l'industrie automobile pour réaliser une installation appropriée. Les lampes DEL assument une fonction essentielle dans l'efficacité du dispositif d'alerte visuelle. L'utilisation des assemblages de lampes ne garantit pas que tous les chauffeurs peuvent se conformer ou respecteront ou réagiront à un signal d'alerte, surtout à des vitesses élevées ou sur de longues distances. Le chauffeur du véhicule ne doit jamais tenir pour acquis le droit de passage et la responsabilité de s'assurer qu'il s'engage en toute sécurité lui incombe. L'efficacité des assemblages de lampes est hautement dépendante d'un bon montage et d'un bon câblage. L'installateur doit lire et suivre les instructions de montage et les mises en garde du fabricant indiquées dans le manuel. Le chauffeur du véhicule, quant à lui, doit vérifier chaque jour que les lampes sont bien fixées au véhicule et qu'elles fonctionnent correctement avant de conduire le véhicule. Il incombe aux utilisateurs de s'assurer qu'ils ont compris et qu'ils savent comment faire fonctionner les dispositifs d'alerte conformément aux lois et aux règlements de la ville, de la province ou du territoire et fédéraux en vigueur. SoundOff Signal n'assume aucune responsabilité relativement aux dommages provenant de l'utilisation de ce dispositif d'alerte.



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## FOUR CORNER 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](mailto:techservices@soundoffsignal.com).



### WARNING MESSAGE

Directing high pressure water at the GHOST® or Intersector perimeter lights can result in water penetration that will cause a significant reduction in lighting performance or failure.



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## **GARANTÍA LIMITADA DE LUCES DE ADVERTENCIA LED DE LAS CUATRO ESQUINAS**

Todas las partes Ford que proporciona SoundOff Signal estan garantizadas de no tener defectos en los materiales y la fabricacion en productos instalados correctamente de acuerdo con las instrucciones que se entregan con el producto. Esta garantia cubre la reparacion o el reemplazo de cualquier producto defectuoso sin costo durante el periodo de garantia aplicable descrito a continuacion. SoundOff Signal no paga ni reembolsa el costo de mano de obra por reemplazo o servicio de productos defectuosos.

### **PERIODO DE GARANTÍA**

	Esfaldos Unidos	Fuera de los Estados Unidos
Producto que aparece en la etiqueta del nuevo vehiculo Monroney (etiqueta de la ventanilla)	3 anos o 36,000 millas, lo que ocurra primero	3 anos o 60,000 kilometres, lo que ocurra primero
Parte comprada e instalada durante o despues de la garantia original del vehiculo.	Cualquiera de las siguientes dos opciones siguientes que sea mayor: 1) 2 anos/millaje ilimitado 2) Lo que reste de la garantia del vehiculo nuevo	Cualquiera de las siguientes dos opciones siguientes que sea mayor; 1) 2 anos/kilometraje ilimitado 2) Lo que reste de la garantia del vehiculo nuevo

La garantia limitada no cubre ningun daño, defecto o mal funcionamiento causado por mal uso, abuso, accidente, instalacion inadecuada, modificacion, o mantenimiento inadecuado o falta de mantenimiento. Los daños incidentales y consecuentes no son recuperables de conformidad con esta garantia. Esta garantia le ofrece derechos legales específicos. Listed puede tener derechos adicionales u otros que varian de un estado a otro o de una provincia a otra.

Si experimenta un problema de garantia con este producto, acuda a un concesionario Ford. Si la reparacion esta cubierta por la garantia descrita arriba y el concesionario la realize, la mano de obra tambien esta cubierta, Garantia y Poliza de Ford, Seccion 3.

Por favor tome nota de que SoundOff Signal tiene partes de reemplazo disponibles para ayudar a consumidores y concesionarios a resolver, con la mayor prontitud posible, problemas cubiertos por la garantia y no cubiertos por la garantia.

#### **Nota para el concesionario:**

Los concesionarios Ford deberdn comunicarse a SoundOff Signal por telefono al numero 800-338-3773 o por correo electronico a [techservices@soundoffsignal.com](mailto:techservices@soundoffsignal.com)



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## TÉMOIN D'ALERTE DEL QUATRE COINS GARANTIE LIMITÉE

Tous les numéros de pièces de Ford fournis par SoundOff Signal sont garantis contre tout défaut de matériel et de fabrication sur les produits installés correctement conformément aux instructions fournies avec le produit. Cette période de garantie couvre gratuitement la réparation ou le remplacement de tout produit défectueux durant la période de garantie indiquée ci-dessous. Les frais de main-d'œuvre pour le remplacement ou la réparation du produit défectueux ne sont ni payés ni remboursés par SoundOff Signal.

PÉRIODE DE GARANTIE	
	É.-U.
Le produit qui apparaît sur l'étiquette MonMoney de nouveau véhicule (étiquette apposée sur la fenêtre du véhicule)	3 ans ou 36 000 milles, le premier des deux prévalant
Les pièces achetées et installées durant ou après la garantie originale du véhicule.	Selon la plus élevée des deux options suivantes :  2 ans/kilométrage illimité, ou Le reste de la garantie du véhicule neuf

Selon la plus élevée des deux options suivantes :

2 ans/kilométrage illimité, ou  
Le reste de la garantie du véhicule neuf

Cette garantie limitée ne s'étend pas aux dommages, défectuosités ou mauvais fonctionnements provoqués par une mauvaise utilisation, des abus, des accidents, une mauvaise installation, des modifications, un mauvais entretien ou un manque d'entretien. Les dommages indirects et consécutifs ne sont pas couverts par cette garantie. Cette garantie vous octroie des droits juridiques précis. Vous pouvez avoir d'autres droits qui varient d'un Etat à l'autre ou d'une province à l'autre.

Si vous avez un problème de garantie avec ce produit, veuillez aller chez votre concessionnaire Ford. Si la réparation est couverte par la garantie ci-dessus et effectuée par le concessionnaire, la main-d'œuvre est également couverte -- Garantie et politique de Ford -- section 3.

Veuillez noter que des pièces de rechange destinées à aider les consommateurs et les concessionnaires sont disponibles auprès de SoundOff Signal afin de résoudre les problèmes de garantie et de non-garantie aussi vite que possible.

*Note au concessionnaire :*

Les concessionnaires Ford doivent contacter SoundOff Signal par téléphone au 800-338-7337 ou par courriel à : [techservices@soundoffsignal.com](mailto:techservices@soundoffsignal.com).



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## Contents

HARDWARE	A	B	C	D	E	F
	FOAM PAD 3x	ZIP TIES 14x	ZIP TIE ANCHOR 4x	SHEETMETAL SCREWS 4x	GHOST LIGHTS 2x	E-1
HARDWARE	G	H	I	J	K	L
	GHOST MOUNTING PAD 2x	GHOST MOUNTING BRACKET 2x	Bracket Screw 4x Shipped in Bracket	WARNING LABEL 1x	DASH LABEL 1x	SIDE PANEL LABEL 1x
HARNESSSES	N	O	O1	M	P	
	14 FOOT HARNESS - "N" 1x	6 FOOT HARNESS - "O" 1x (Stand Alone Switch Only)	6 FOOT HARNESS - "O1" 1x (UpFitter Switch Kit Only)	INTERIOR TRIM PANEL WITH SWITCH 1x HARNESS - "M" (Stand Alone Switch Only)	STROBE	UpFitter Switch Kit Only

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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)

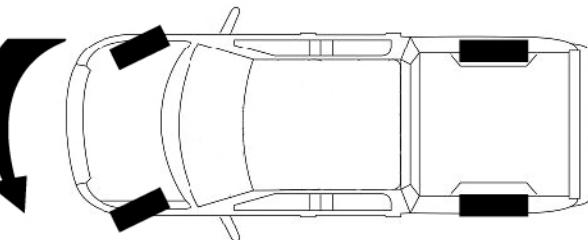


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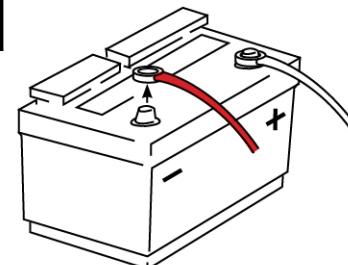
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**Read and understand all instructions before starting**

1



2



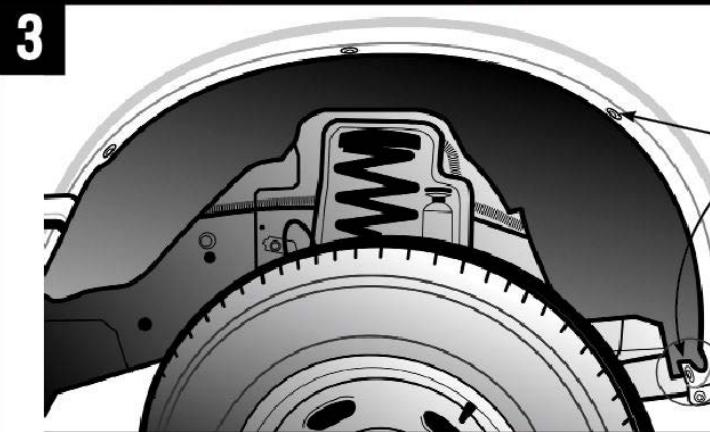
**IMPORTANT:**  
REMOVE POWER  
CABLE FROM BATTERY  
USING 10MM SOCKET

TURN WHEELS TO LEFT FOR INSTALLATION

\*\*IF INSTALLING AN UPFITTER SWITCH KIT ON A 2020 MODEL  
YEAR OR NEWER, TURN WHEELS TO THE RIGHT INSTEAD\*\*

FOR DUAL BATTERIES, REMOVE TERMINALS ON BOTH BATTERIES

3



3 SCREW LOCATIONS  
(7/32" socket needed)

REMOVE MORE  
SCREWS IF NEEDED  
TO CREATE ACCESS

REMOVE WHEEL WELL ONLY IF NECESSARY TO ACCESS RUBBER GROMMET. IF  
WHEEL WELL NEEDS TO BE REMOVED, FOLLOW MANUFACTURER'S  
RECOMMENDED METHOD TO REMOVE WHEEL WELL.

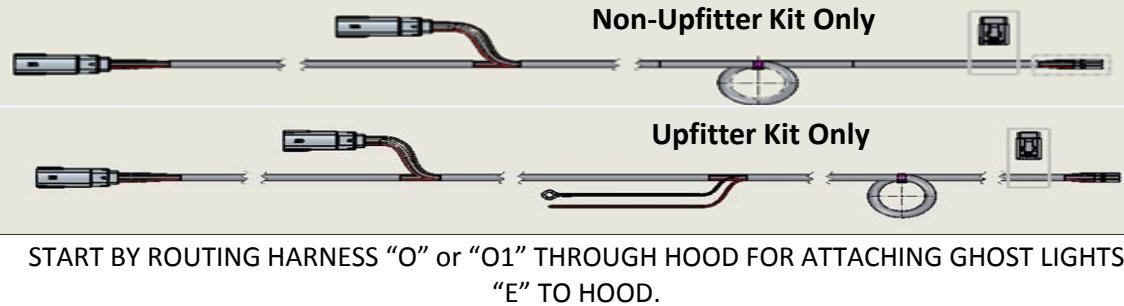
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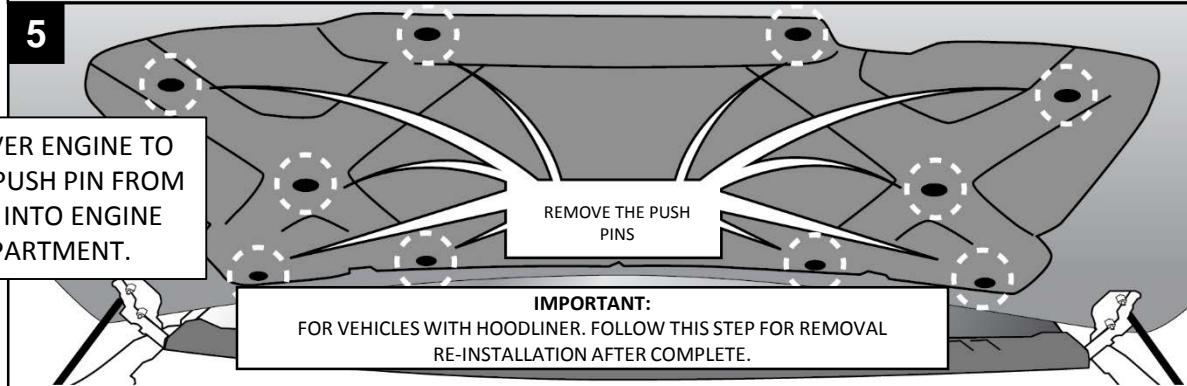
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4



START BY ROUTING HARNESS "O" or "O1" THROUGH HOOD FOR ATTACHING GHOST LIGHTS "E" TO HOOD.

5

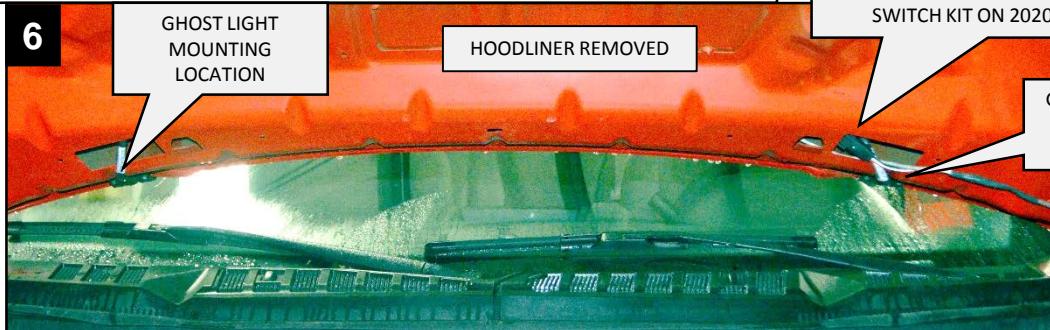


**Note:**

GHOST POWER HARNESS HAS  
EXTRA LENGTH FOR  
CUSTOMER MOUNTING  
LOCATION PREFERENCE.

HARNESS FED THROUGH OPENING IN HOOD  
FROM DRIVER'S SIDE TO PASSENGER SIDE.  
(SEE STEP 10)

\*\*REVERSE DIRECTION FOR UPFITTER  
SWITCH KIT ON 2020 OR NEWER\*\*



GHOST LIGHT  
MOUNTING  
LOCATION

MOUNT EACH GHOST LIGHT IN NOTCHES NEXT TO CUTOUTS AS SHOWN

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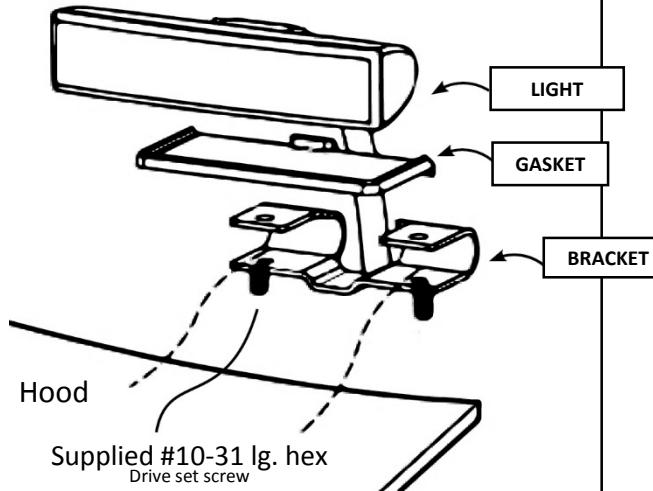
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### FRONT GHOST LIGHT ASSEMBLY

**IMPORTANT:**  
NOTE DRIVER'S SIDE(DS) AND PASSENGER SIDE(PS)  
LABELING ON HARNESS



#### WARNING MESSAGE

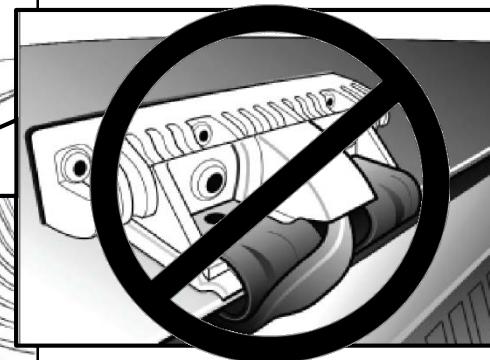
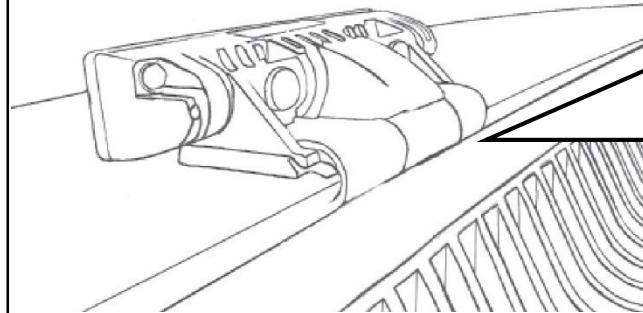
Directing high pressure water at the GHOST® or Intersector perimeter lights can result in water penetration that will cause a significant reduction in lighting performance or failure.

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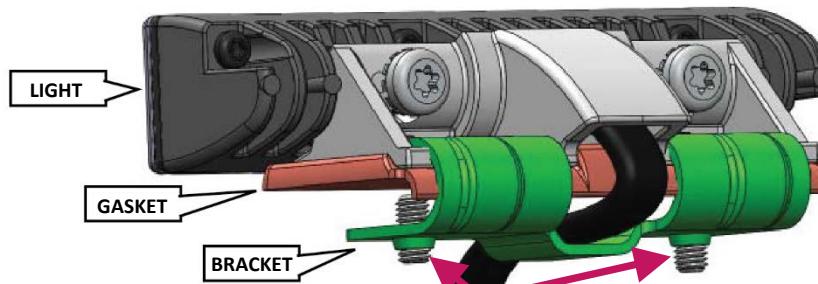
8

#### IMPORTANT:

BEFORE TIGHTENING, MAKE SURE GHOST LIGHTS ARE SYMMETRICAL TO CHARACTER LINES ON OUTER SIDE OF HOOD. See Step 9.



AFTER INSTALLATION, VERIFY THE CABLE FROM THE LIGHT ASSEMBLY IS TUCKED CORRECTLY UNDER THE HOOD.



**SNUG BOTH #10-31 (HEX 3/32") SCREWS THEN  
TIGHTEN EACH AN ADDITIONAL FULL TURN WITH  
ALLEN WRENCH DURING ASSEMBLY TO HOOD.  
ALLOW AT LEAST ONE FULL THREAD TO SHOW**

BACK VIEW OF FINAL ASSEMBLY

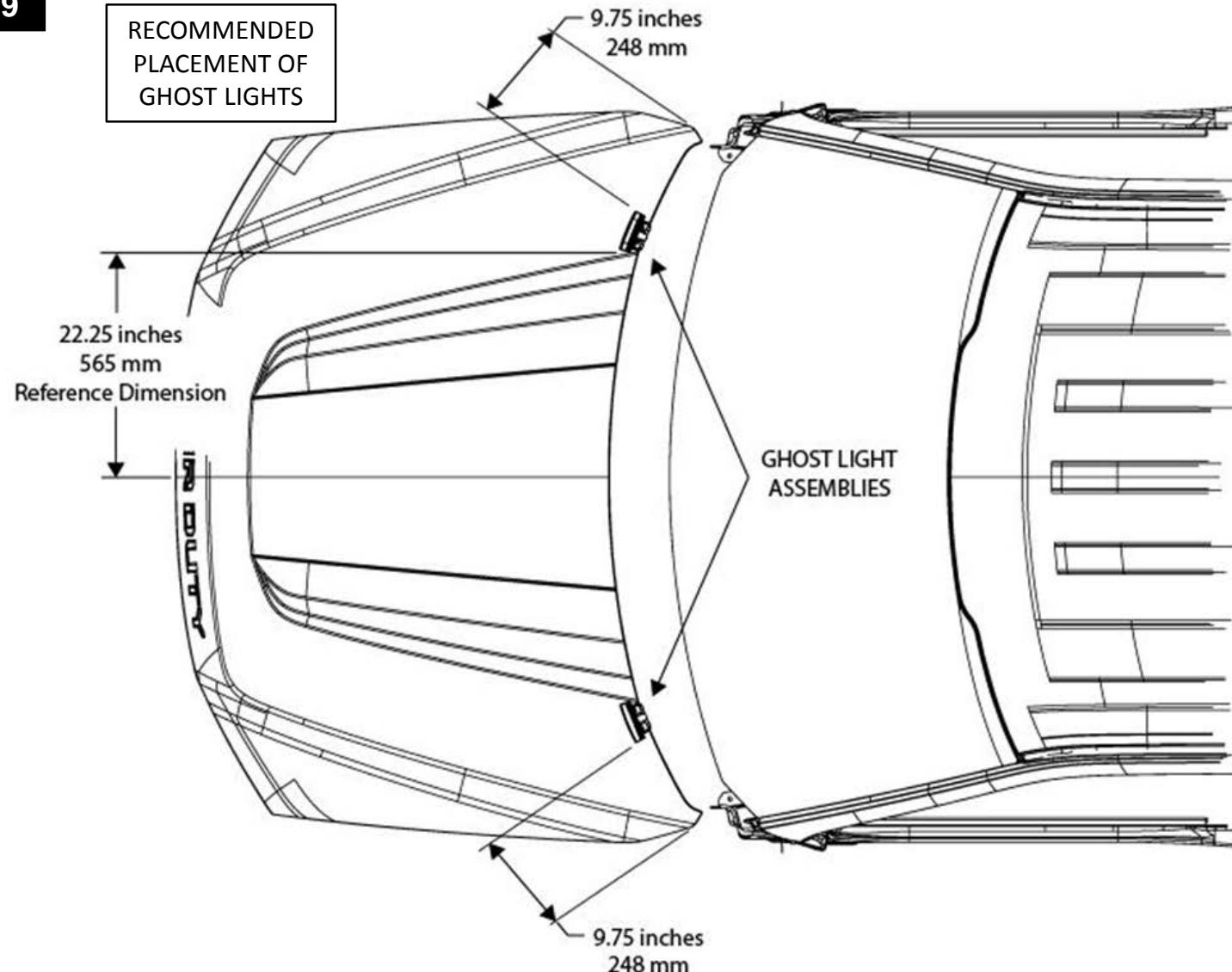


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RECOMMENDED  
PLACEMENT OF  
GHOST LIGHTS

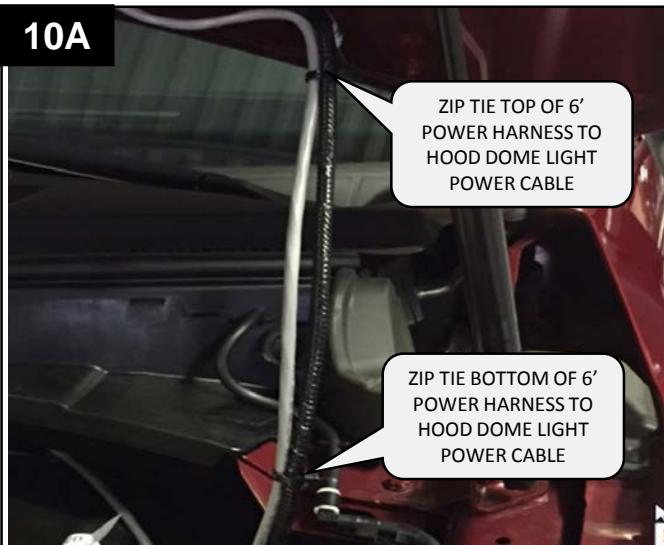


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## IMPORTANT:

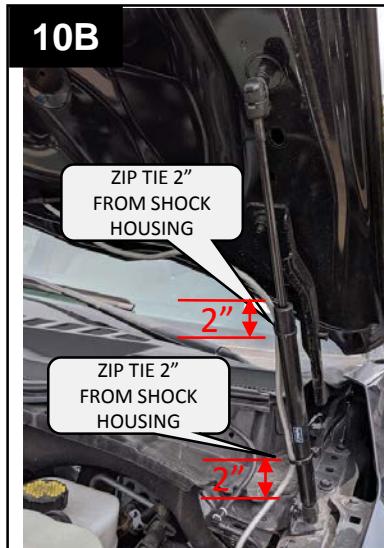
WIRE ROUTING SHOWN IN 10A IS THE IDEAL METHOD. IF YOU HAVE A NEWER MODEL SUPERDUTY WHERE THE HOOD DOME LIGHT POWER CABLE DOES NOT COME DOWN THE DRIVER'S SIDE, THEN FOLLOW THE WIRE ROUTING DIRECTION SHOWN IN 10B. IF YOU HAVE A 2020 OR NEWER MODEL SUPERDUTY AND ARE INSTALLING THE UPFITTER SWITCH KIT, THEN FOLLOW THE DIRECTIONS SHOWN IN 10C.

**10A**

ZIP TIE TOP OF 6'  
POWER HARNESS TO  
HOOD DOME LIGHT  
POWER CABLE

ZIP TIE BOTTOM OF 6'  
POWER HARNESS TO  
HOOD DOME LIGHT  
POWER CABLE

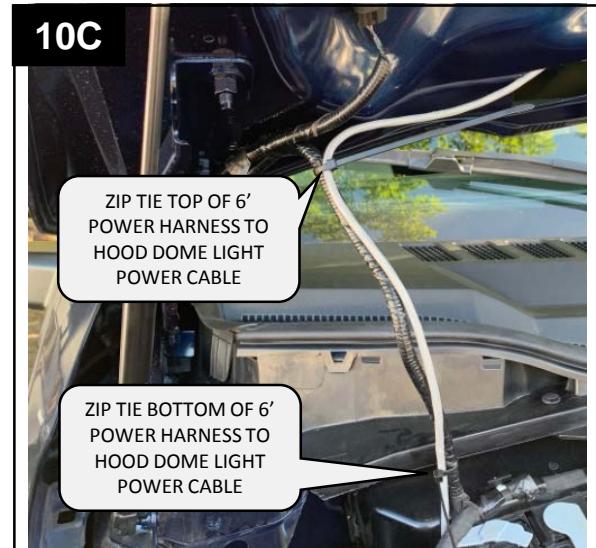
FEED HARNESS "O" or "O1" TO GHOST LIGHT  
THROUGH ACCESS HOLE. ZIP TIE TO EXISTING  
HARNESS AS SHOWN IN 2 LOCATIONS.

**10B**

ZIP TIE 2"  
FROM SHOCK  
HOUSING

ZIP TIE 2"  
FROM SHOCK  
HOUSING

FEED HARNESS "O" or "O1" TO GHOST LIGHT  
THROUGH ACCESS HOLE. ZIP TIE TO HOOD  
SHOCK AS SHOWN IN 2  
LOCATIONS.

**10C**

ZIP TIE TOP OF 6'  
POWER HARNESS TO  
HOOD DOME LIGHT  
POWER CABLE

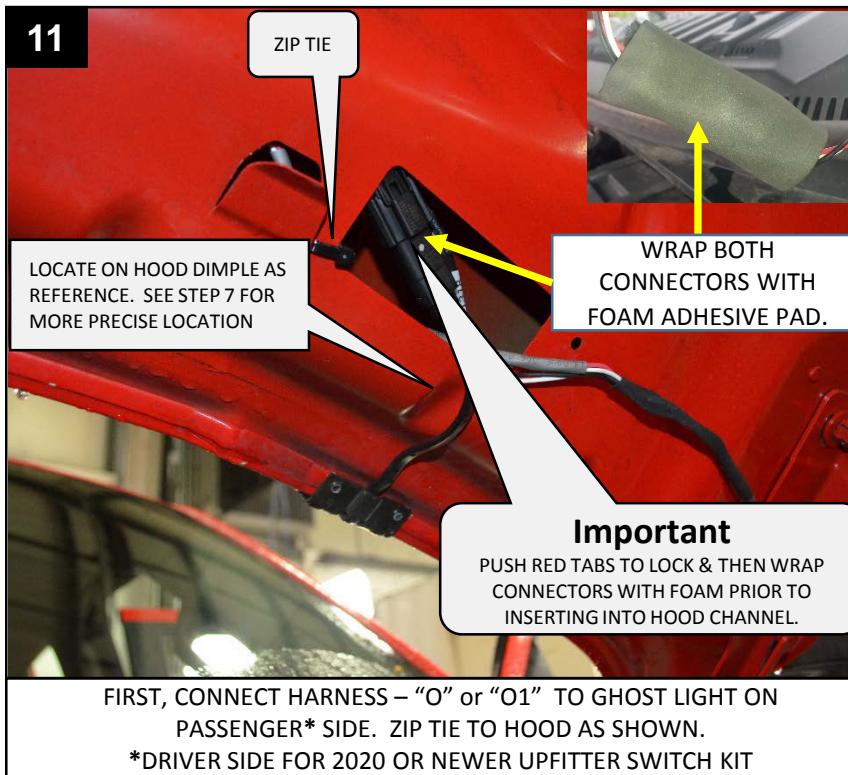
ZIP TIE BOTTOM OF 6'  
POWER HARNESS TO  
HOOD DOME LIGHT  
POWER CABLE

FEED HARNESS "O1" TO GHOST LIGHT  
THROUGH ACCESS HOLE. ZIP TIE TO EXISTING  
PASSENGER SIDE HARNESS AS SHOWN IN 2  
LOCATIONS.



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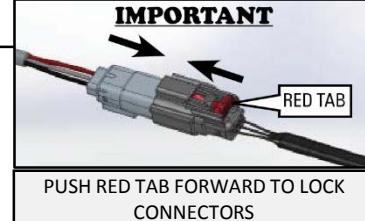
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**IMPORTANT:**

THE INSTALLER IS TO CONFIRM THE PROPER ROUTING AND SECURING OF THE CORNER STROBE 6' HARNESS BY OPENING AND CLOSING THE HOOD WHILE MONITORING THAT NO BINDING, CONTACT WITH COWL, OR ANY OTHER INTERFERENCE EXISTS WITH THE 4 CORNER STROBE HARNESS AND OTHER COMPONENTS.

**IMPORTANT**



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REMOVE ROCKER PANEL IN FRONT AND REAR DRIVER SIDE.

14



REMOVE SIDE TRIM PANEL LOCATED BY EMERGENCY-BRAKE.

NOTE:

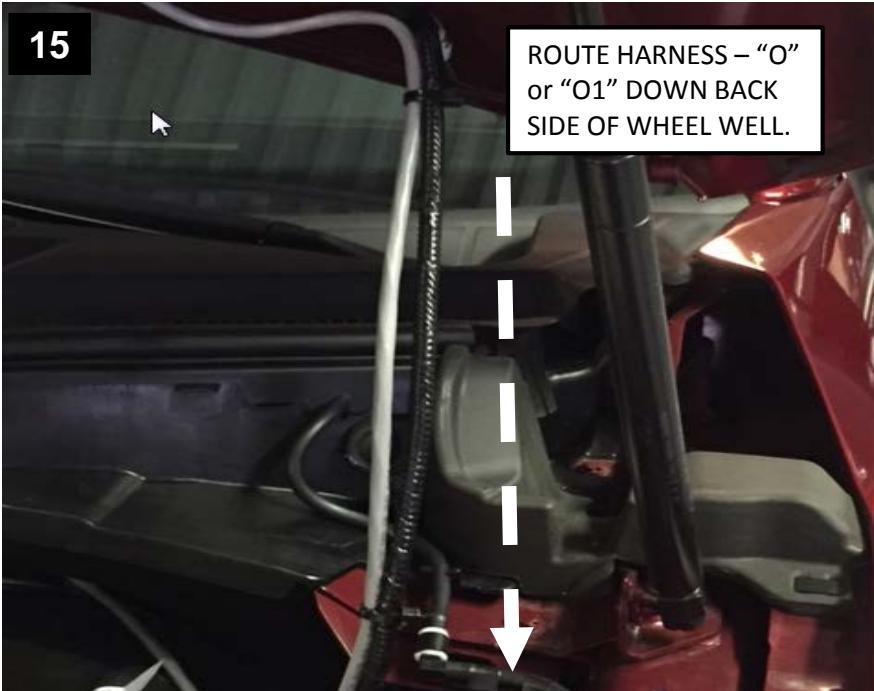
IF YOU OWN A 2020 OR NEWER MODEL SUPERDUTY AND ARE INSTALLING THE UPFITTER SWITCH KIT, THEN THE COMPARABLE PASSENGER SIDE TRIM PANELS WILL BE REMOVED INSTEAD.



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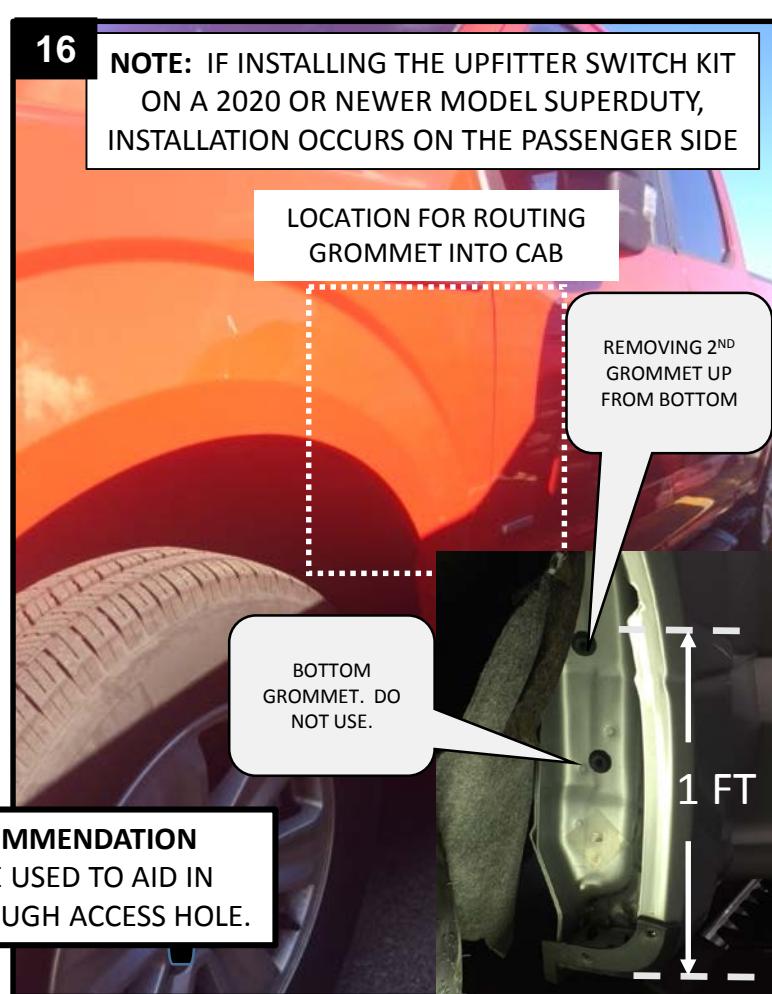
ROUTE HARNESS – “O”  
or “O1” DOWN BACK  
SIDE OF WHEEL WELL.

ROUTE POWER HARNESS – “O” OR “O1” DOWN TOWARDS BACK SIDE OF WHEEL WELL. WITH WHEEL WELL SCREWS REMOVED FROM STEP 3, LOCATE CONNECTOR ON END OF HARNESS – “O” OR “O1”.

**ASSEMBLY RECOMMENDATION**  
FISH TAPE MAY BE USED TO AID IN  
PULLING WIRE THROUGH ACCESS HOLE.

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**NOTE:** IF INSTALLING THE UPFITTER SWITCH KIT  
ON A 2020 OR NEWER MODEL SUPERDUTY,  
INSTALLATION OCCURS ON THE PASSENGER SIDE



REACH UP BEHIND WHEEL WELL AND REMOVE 2ND GROMMET UP  
FROM BOTTOM OF VEHICLE. DO NOT INSTALL WIRE YET. PLEASE  
REFER TO INSTRUCTION 16A

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16A

PRESS 6' POWER HARNESS UP ON 45  
DEGREE ANGLE. INSERT AT LEAST 1 FT



REMOVE THE SPECIFIED GROMMET SHOWN ON BULKHEAD;  
SEE 16B. CUT ONLY ABOUT 1/8" OFF THE TIP OF THE  
GROMMET AS SHOWN. ROUTE TAPE END OF WIRE HARNESS  
THROUGH HOLE IN GROMMET. PULL GROMMET BACK UNTIL  
TIGHT AGAINST DRIP LOOP IN WIRE HARNESS. *Please see  
picture 16B for how final product should appear.*

16B

CORRECT

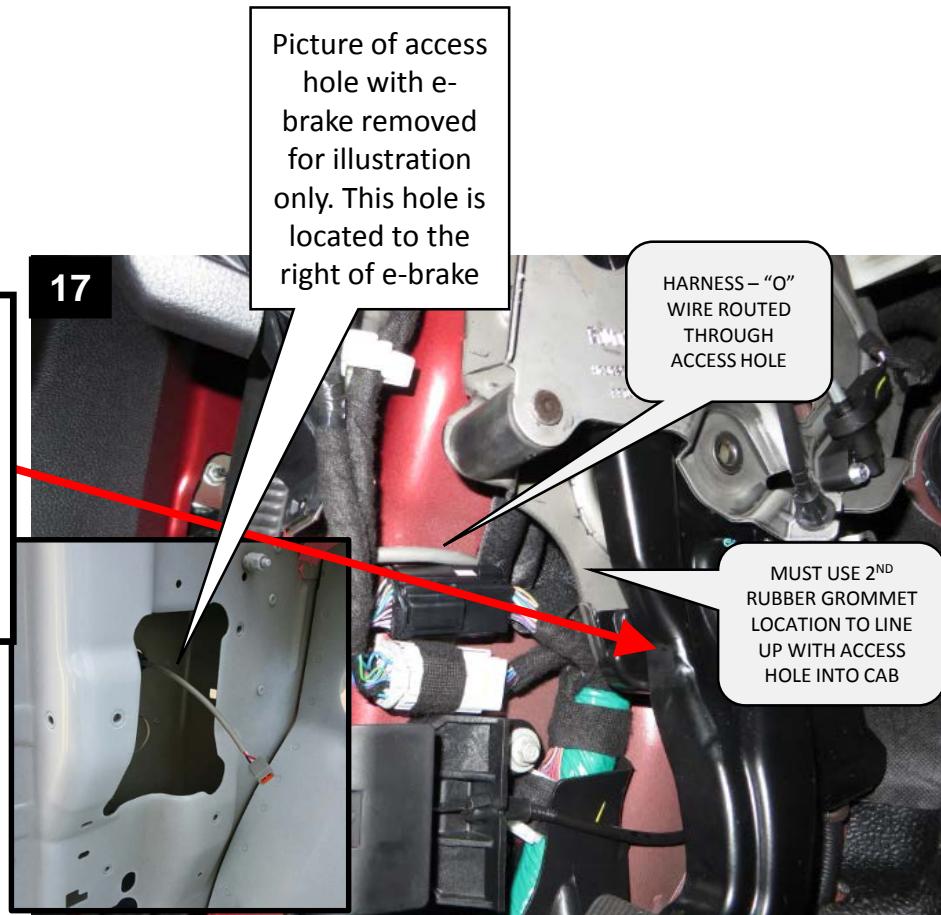
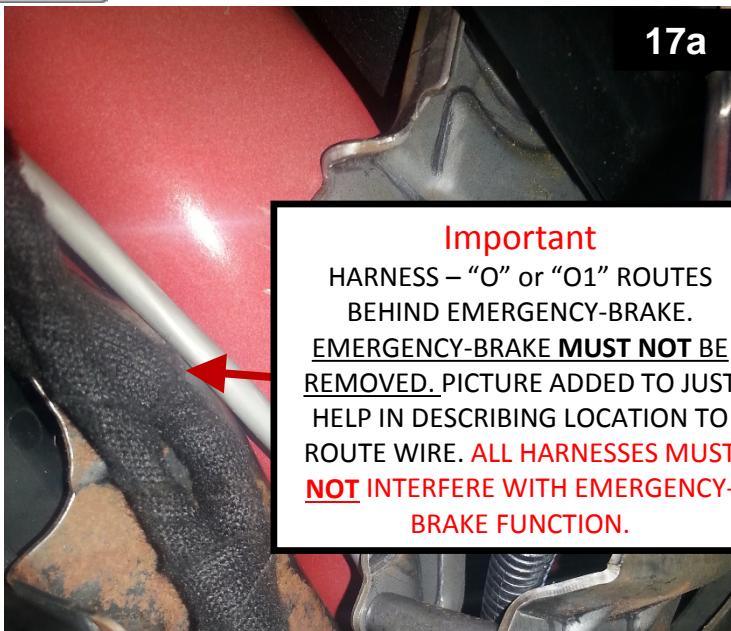


WRONG



After rubber grommet installed on harness-"O" or "O1",  
route wire through access hole in firewall. **GROMMET  
ON HARNESS-"O" MUST SEAT FULLY INTO ACCESS HOLE  
WITH DRIP LOOP FACING DOWN TO PREVENT LEAKS.  
DO NOT USE BOTTOM HOLE OR GROMMET LOCATED  
HIGHER UP ON FIREWALL.** AFTER GROMMET SEADED IN  
FIREWALL. REINSTALL WHEEL WELL SCREWS (IF APPLICABLE)

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WIRE WILL ROUTE THROUGH ACCESS HOLE AND FOAM PAD LOCATED BEHIND EMERGENCY-BRAKE (THIS PICTURE HAS EMERGENCY-BRAKE ASSEMBLY REMOVED FOR ILLUSTRATIVE PURPOSES ONLY.)



**NOTE:**  
IF YOU OWN A 2020 OR NEWER MODEL SUPERDUTY AND ARE INSTALLING THE UPFITTER SWITCH KIT, THEN THE PARKING BRAKE IS IRRELEVANT AS THE WIRE ROUTING TAKES PLACE ON THE PASSENGER SIDE.

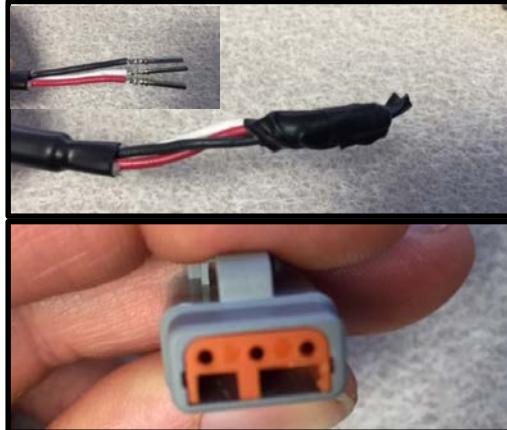
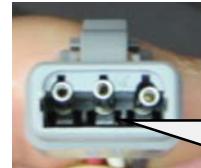
17b



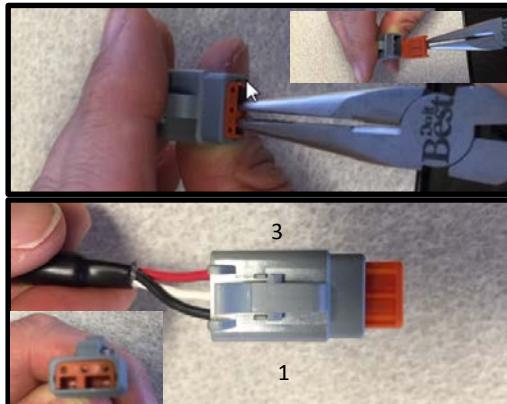
KEEP WIRE CLEAR OF E-BRAKE. ONCE WIRE THROUGH FIREWALL.  
INSTALL CONNECTOR.

#### INSTRUCTIONS TO FIX IF TERMINALS ARE MISLOCATED

1. REMOVE LOCKING CONNECTOR (Figure 3)
2. PRESS DOWN ON TABS LOCATED INSIDE OF CONNECTOR AND PULL ON WIRE
3. REINSTALL WIRES
4. REINSTALL LOCKING TAB



1. REMOVE TAPE FROM END OF WIRE



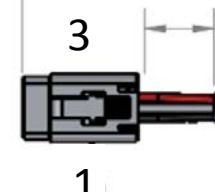
2. LOCATE CONNECTOR FROM STEP 16A

3. REMOVE LOCKING TAB FROM CONNECTOR

4. INSTALL WIRES INTO CONNECTOR (FOLLOW DIAGRAM BELOW). REINSTALL LOCKING TAB

AMPHENOL:  
CONNECTOR: ATM06-3S  
TERMINALS: AT62-201-20141  
LOCK: AWM-3\$

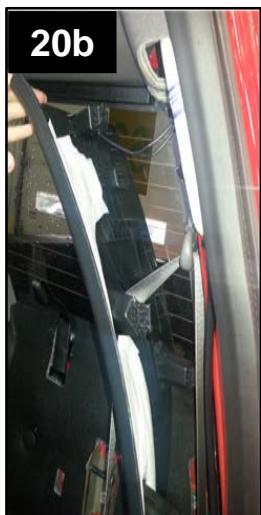
PIN OUT:  
3 = Red, Power  
2 = White , Selection  
1 = Black, Ground



PRESS DOWN ON  
TABS TO REMOVE  
WIRE TERMINAL



REMOVE "Vehicle CHMSL SCREWS" (4) Torx T-20 or 7 mm socket-HANG ON TO SCREWS. YOU WILL NEED THEM LATER IN THE INSTALLATION IN SECTION NUMBER 28 .



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

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



USE 6' OF FISH TAPE TO ROUTE HARNESS – "N" DOWN THROUGH CAB ACCESS HOLE & TOWARD DRIVERSIDE C-PILLAR.  
**IMPORTANT-DO NOT PULL DOWN HEADLINER.**



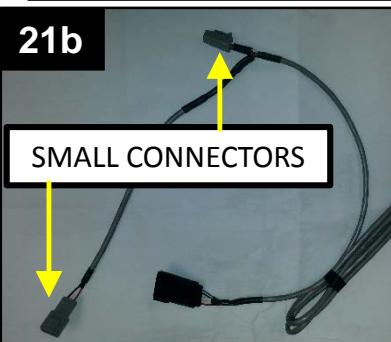
AFTER HARNESS – "N" HAS BEEN PULLED THROUGH HEADLINER, LOOSELY ATTACH (4) ZIP TIES & ANCHORS ABOVE SMALL CONNECTORS. ANCHORS WILL BE USED TO SECURE HARNESS ALONG C-PILLAR  
**\*\*\*SEE STEP 23 FOR PLACEMENT OF ANCHORS.**



DISCONNECT BULBS (3)



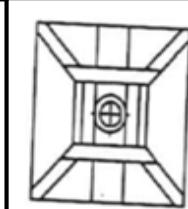
DISCONNECT HARNESSES (LED-VIDEO)



ROUTE HARNESS – "N"  
SMALL CONNECTORS  
THROUGH CAB ACCESS  
HOLE FIRST

23

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



**NOTE:** IF INSTALLING THE UPFITTER SWITCH KIT  
ON A 2020 OR NEWER MODEL SUPERDUTY,  
INSTALLATION OCCURS ON THE PASSENGER SIDE



AIR BAG

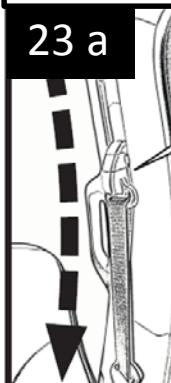
**IMPORTANT**  
DO NOT REMOVE PANEL  
TETHER FROM AIR BAG  
OPERATION. MAKE SURE  
WIRE HARNESS IS ROUTED  
BEHIND SEAT BELT AND  
DOESN'T INTERFERE WITH  
AIR BAG AND SEAT BELT  
OPERATION.

Regular Cab (only)

23 a

**IMPORTANT:**

TORQUE SEATBELT CLIP  
TO 40 Nm +/- 6Nm  
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.

24a

ROUTE HARNESS "N"  
IN GUTTER.

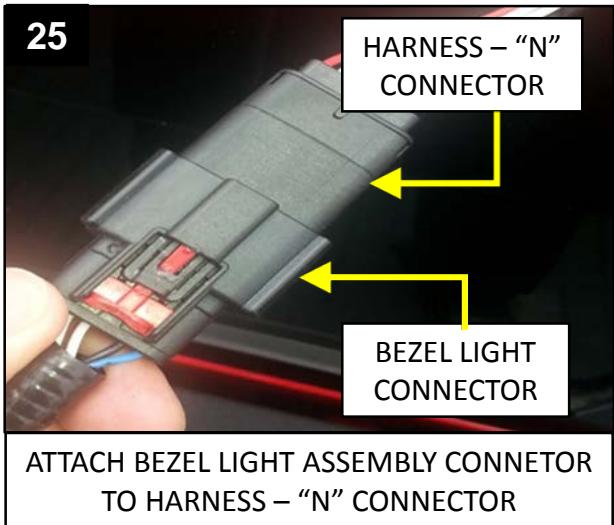


ROUTE HARNESS "N" IN RAIN GUTTER NEXT TO  
EXISTING VEHICLE HARNESS WITH TWO GRAY  
CONNECTORS FACING FORWARD NEAR EMERGENCY  
BRAKE ZIP TIE HARNESS "N" TO EXIST STOCK HARNESS.



ZIP TIE HARNESS "N" TO EXIST STOCK HARNESS IN TWO PLACES.

25



26



27a



27b



27c



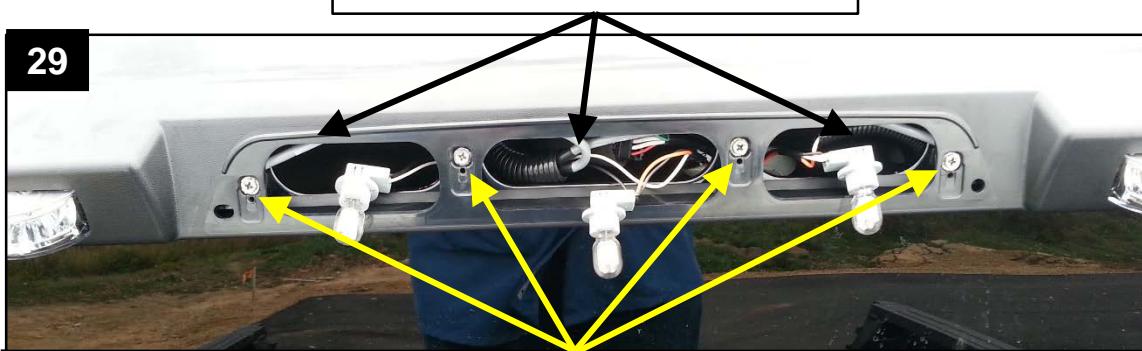
28



HOLD CHMSL BEZEL TIGHT TO CAB WHILE  
INSERTING "VEHICLE CHMSL SCREWS" FROM  
STEP 18. **PREVENTS WATER LEAKS**

ENSURE HARNESS WIRES ARE ABOVE  
SCREWS AND DO NOT INTERFER  
WITH BEZEL SEAL

29



INSTALL FOUR "VEHICLE CHMSL SCREWS" THROUGH BEZEL INTO PLASTIC GROMMET WHILE HOLDING BEZEL TIGHT WITH HAND PRESSURE. ENSURE GAPS ARE EVEN AROUND VEHICLE. TORQUE ALL FOUR SCREWS TO  $1.5 \pm 0.3$  NM with Torx T-20 or 7 mm socket



Official  
Licensed  
Product

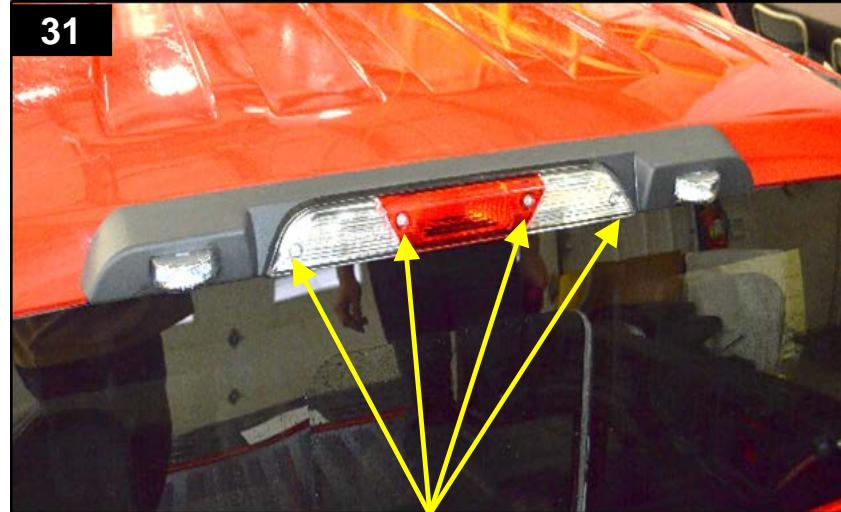
CUSTOM  
accessories

30



RECONNECT BULBS (3)

31



ENSURE UNIFORM ALIGNMENT, HOLD WITH HAND PRESSURE COMPRESSING FOAM TO **PREPVENT WATER LEAKS** & INSERT SCREWS (4) (Kit Item D) AND TORQUE TO  $2.0 \pm 0.3$  NM with T-20 Torx or 7 mm socket



RECONNECT HARNESSES  
(LED-VIDEO)

### IMPORTANT

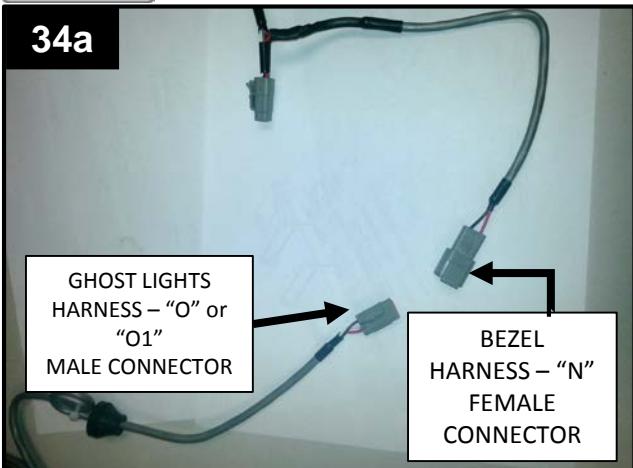
IF USING UPFITTER SWITCHES  
SKIP TO STEP 44 page 31

NEXT STEPS 32-43C ARE FOR VEHICLES THAT DO NOT HAVE UPFITTER SWITCHES. FOR VEHICLES WITH UPFITTER SWITCHES, GO TO STEP 44 ON PAGE 31.

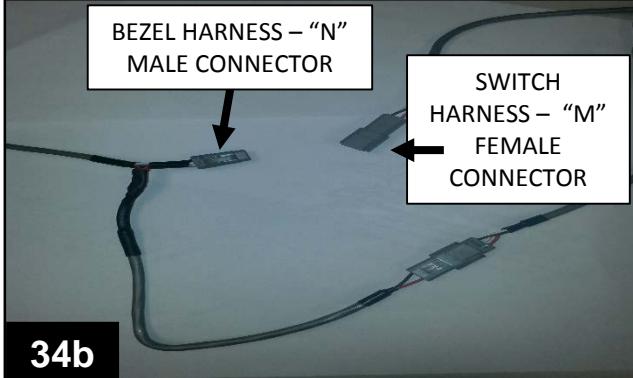


AFTER REMOVAL OF FACTORY TRIM PANEL, REPLACE WITH NEW TRIM PANEL WITH SWITCH. RUN HARNESS - M DOWN AND PLUG INTO HARNESS - "N" CONNECTOR.

**34a**

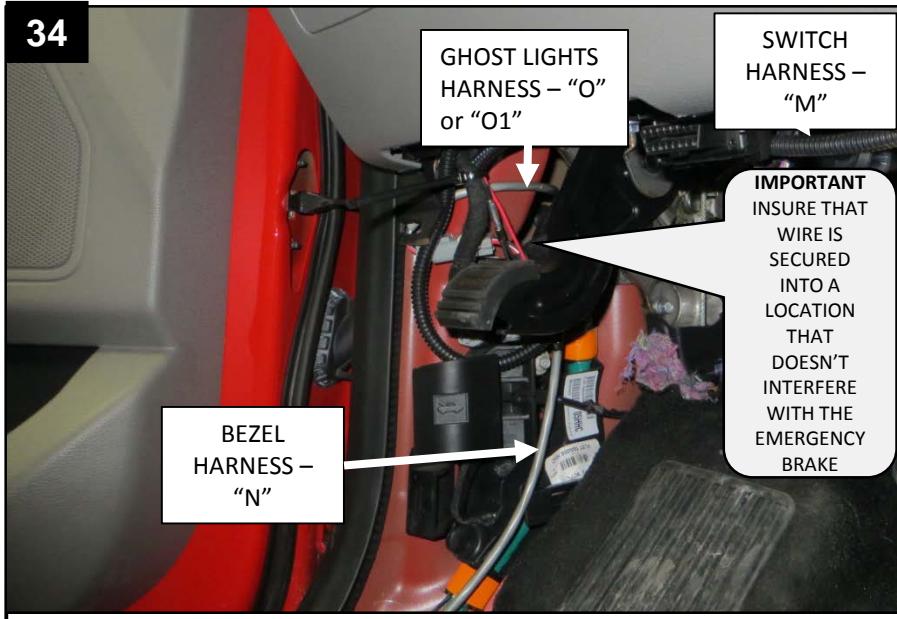


1. PUSH HARNESS – “O” or “O1” MALE CONNECTOR INTO HARNESS – “N” FEMALE CONNECTOR UNTIL THEY LOCK.
2. PUSH HARNESS – “N” MALE CONNECTOR INTO HARNESS – “M” FEMALE CONNECTOR UNTIL THEY LOCK.



**34b**

**34**



**35**

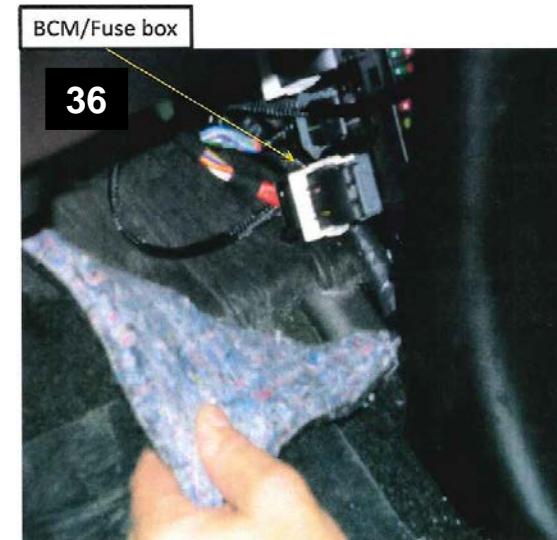
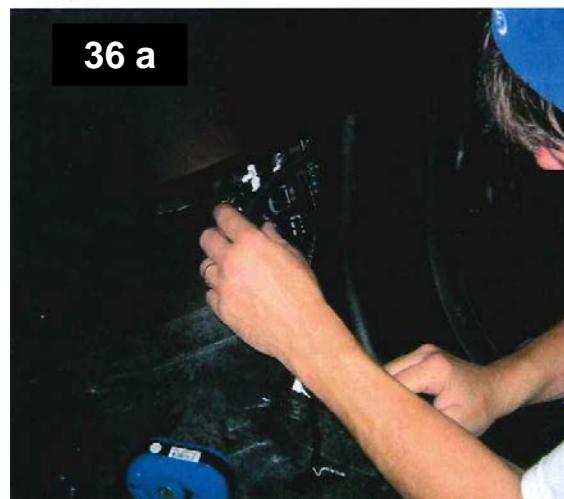
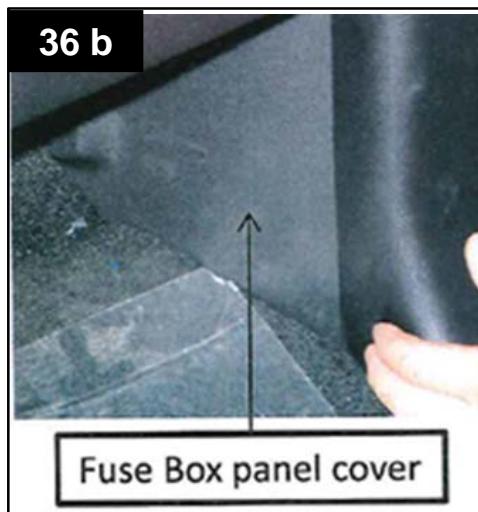


ROUTE POWER & GROUND HARNESS – “M” THROUGH CENTER CONSOLE TO FUSE BOX LOCATED ON PASSENGER SIDE OF VEHICLE. SECURE WIRE HARNESS WITH ZIP TIES. FISH TAPE CAN BE USED AS AN AID TO PULL HARNESS THROUGH CENTER CONSOLE.

Vehicles **NOT USING UPFITTER** Switches

## 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.

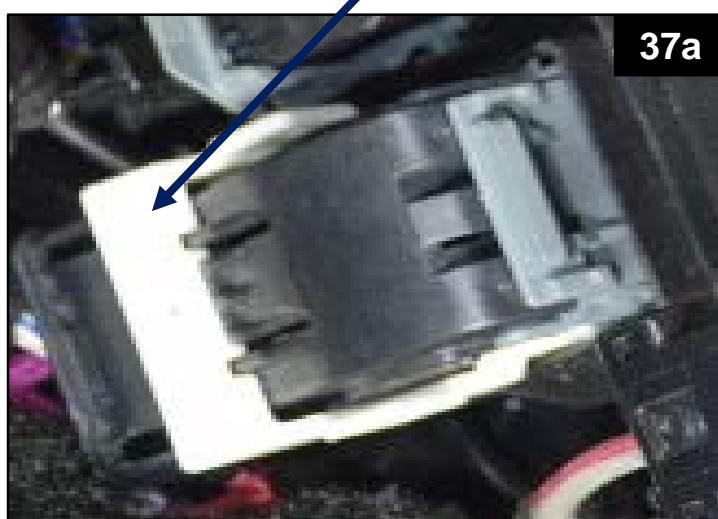


Vehicles **NOT USING UPFITTER** Switches

## (continued) RUN-START WIRE/CONTACT INSTALLATION

1. LOCATE BCM/FUSE BOX IN PASSENGER FOOT WELL
2. IDENTIFY A1 IN THE BCM.
3. LEVELER LOCKS A1 IN PLACE, PUSH IN LOCK  
RELEASING LEVELER.
4. ROTATE LEVELER TO RELEASE & REMOVE A1 FROM  
THE BCM.

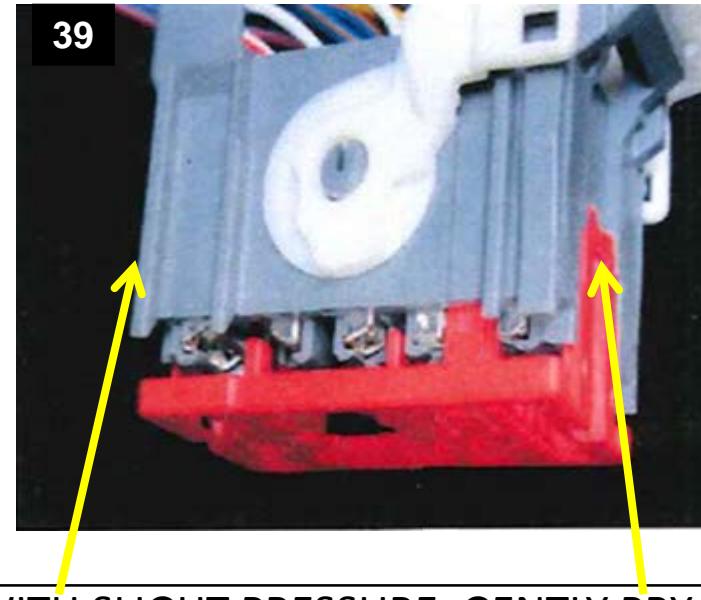
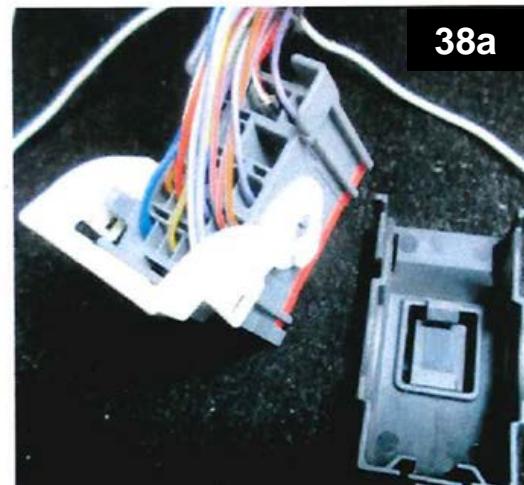
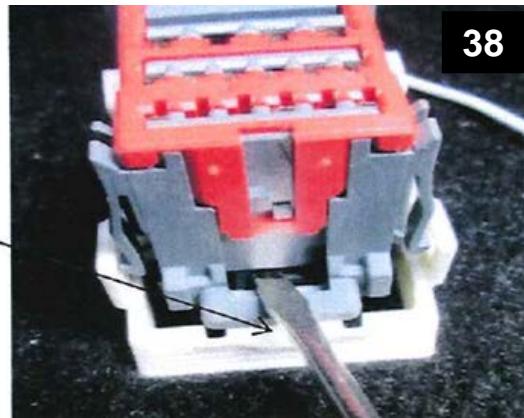
Push in lock to release



## (continued) RUN-START WIRE/CONTACT INSTALLATION

- REMOVE A1 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 2<sup>ND</sup> 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.**

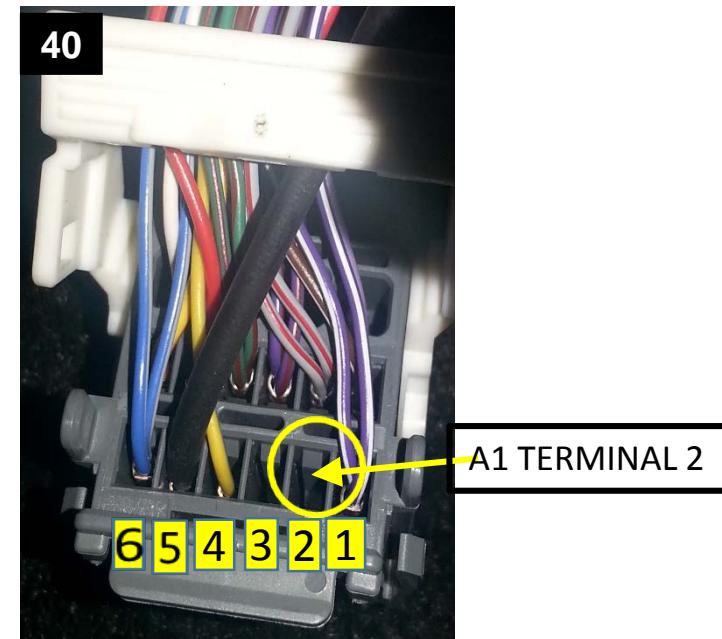
Vehicles **NOT USING UPFITTER** Switches

## (continued) RUN-START WIRE/CONTACT INSTALLATION

1. LOCATE A1 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 A1.
3. INSERT THE RUN-START CONTACT INTO A1-2 ALIGNING THE CONTACT LOCKING TAB IN THE CHANNEL.
4. PUSH IN CONTACT USING "PUSH CLICK PUSH" METHOD.



40b

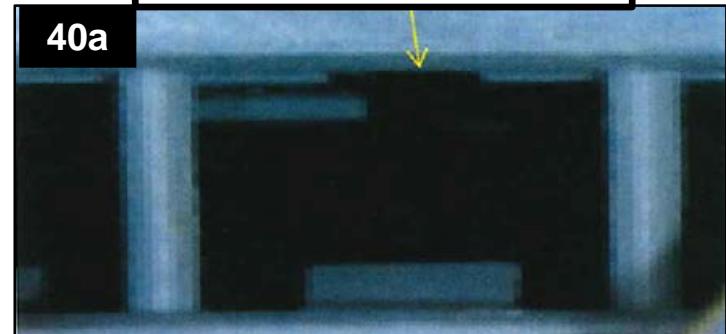


40

A1 TERMINAL 2

CHANNEL IN OPENNING

40a

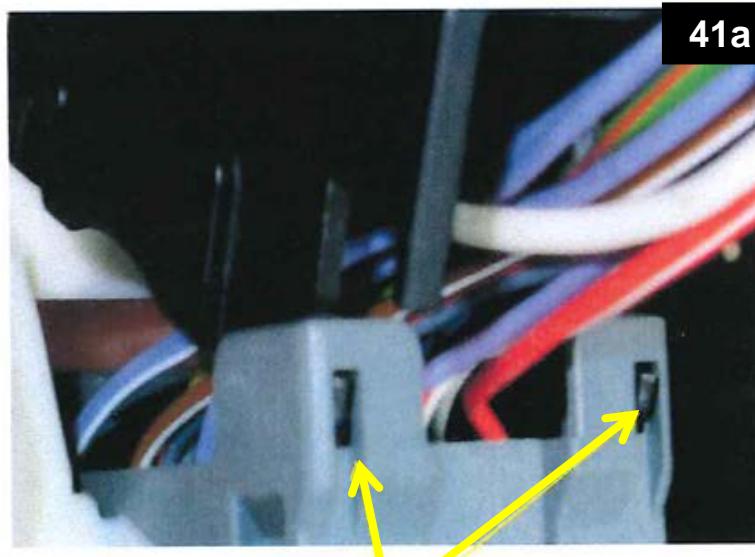


Vehicles **NOT USING UPFITTER** Switches

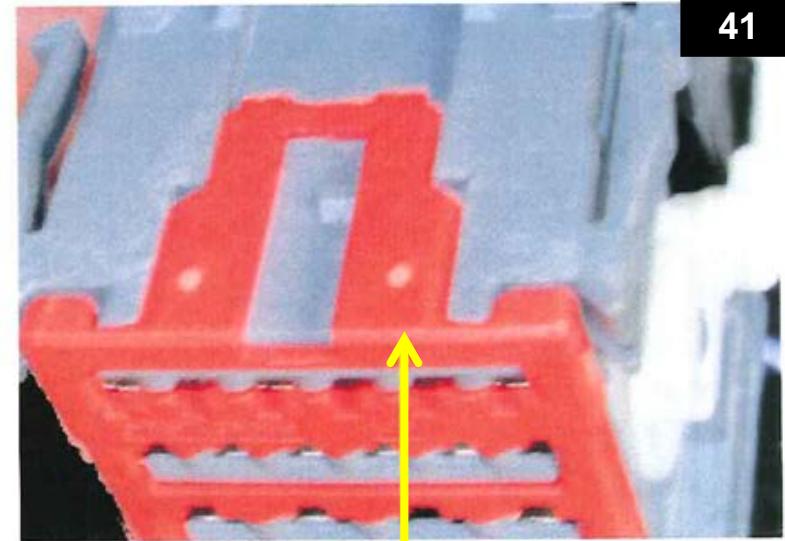
## (continued) RUN-START WIRE/CONTACT INSTALLATION

### REASSEMBLE A1 IN REVERSE ORDER

1. INSERT DRESS COVER HINGE TABS INTO A1 CONNECTOR HOUSING & LATCH COVER.
2. RESEAT A1 RED WEDGE.



Dress cover hinge tabs



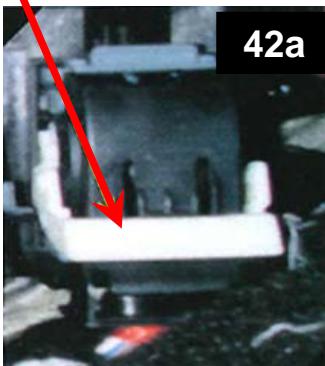
Red Wedge

# (continued) RUN-START WIRE/CONTACT INSTALLATION

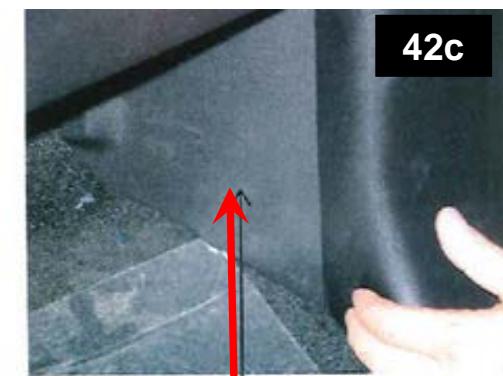
1. RE-INSERT A1 INTO BCM – PUSH IN ON CRESS COVER TO SEAT CONNECTOR, THE LOCKING LEVELER WILL ROTATE INTO CLOSED POSITION.
2. ENSURE A1 IS FULLY SEATED & PUSH LOCKING LEVELER INTO ORIGINAL POSITION TO LOCK A1 CONNECTOR.

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

3. SECURE RUN-START TO BCM A1 HARNESS USING BLACK TAPE.
4. RE-INSTALL FUSE BOX PANEL COVER & RESET CARPET.



RUN-START SECURED TO BCM A1 HARNESS



Fuse Box panel cover



Official  
Licensed  
Product

custom  
accessories

## Vehicles NOT USING UPFITTER Switches

43a



INSTALL SIDE PANEL SWITCH  
IDENTIFICATION LABEL

43b



INSTALL DASH LABEL  
FOR SWITCH LOCATION

43c



INSTALL WARNING CARD  
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
4. VERIFY FUNCTIONALITY OF THE LIGHTS
5. AMBER/WHITE STROBE (ONLY) ("II"/UP FOR WARNING OR "I"/DOWN FOR TASK LIGHT)

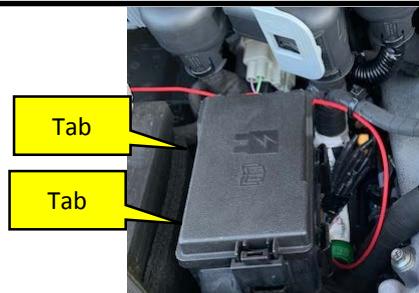
THESE NEXT STEPS ARE FOR VEHICLES WITH UPFITTER SWITCHES. PLEASE REFER TO INSTRUCTIONS 32-43C FOR VEHICLES THAT DON'T HAVE UPFITTER SWITCHES

44

REMOVE BOX ABOVE UPFITTER WIRE LOOM. BY PRESSING IN ON TABS (SEE PICTURE IN SECTION 44b)



OLDER MODEL SUPERDUTY  
BOX LOCATION – DRIVER SIDE BY FIREWALL



2020 MODEL OR NEWER SUPERDUTY  
BOX LOCATION – PASSENGER SIDE BY BATTERY

44a



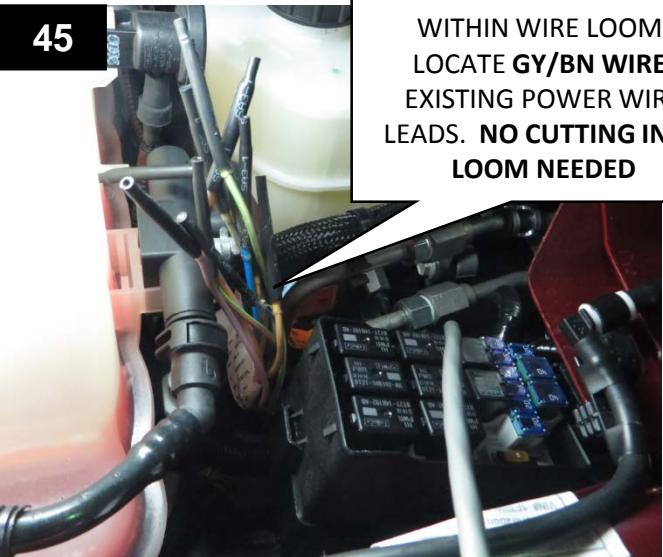
44b



REMOVE BOX ABOVE UPFITTER WIRE LOOM.  
BY PRESSING IN ON TABS

## Vehicles with **UPFITTER** Switches ONLY

**45**



WITHIN WIRE LOOM,  
LOCATE **GY/BN** WIRE.  
EXISTING POWER WIRE  
LEADS. NO CUTTING INTO  
LOOM NEEDED

**45 a**

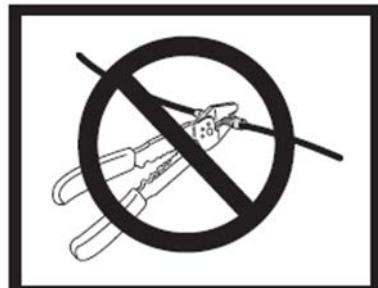
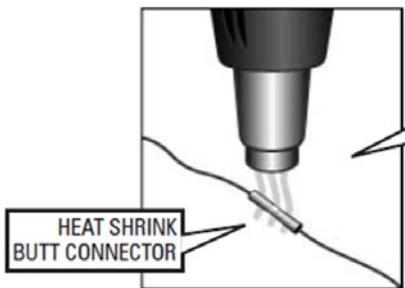


USE GREY/BROWN  
WIRE

RELAY4 OUTPUT  
RELAY3 OUTPUT  
RELAY2 OUTPUT  
RELAY5 OUTPUT

**45 b**

1. LOCATE GY/BN WIRE FROM VEHICLE BUNDLE (POWER WIRE FOR UPFITTER SWITCH #4)
2. REMOVE PROTECTIVE HEAT SHRINK TUBING OFF FROM UPFITTER GY/BN WIRE
3. SLIDE BUTT CONNECTOR SUPPLIED WITH ASSEMBLY KIT ON GY/BN WIRE
4. TWIST THE BARE WIRE ENDS TOGETHER ON THE GR/BN UPFITTER WIRE AND THE RED "O" POWER HARNESS WIRE
5. SLIDE THE SUPPLIED BUTT CONNECTOR OVER THE TWO TWISTED WIRES CENTERING THE BUTT CONNECTOR OVER THE TWISTED BAR GY/BN AND RED WIRES
6. USE A SHIELDED HEAT GUN TO HEAT ENTIRE LENGTH OF HEAT SHRINK CONNECTOR UNTIL HOT MELT APPEARS ON BOTH ENDS OF THE TUBING (**REFER TO IMPORANT NOTE ON NEXT PAGE**)



**DO NOT CRIMP**

SOLDER/HEAT SHRINK BUTT  
CONNECTOR TO VEHICLE  
GR/BN WIRE AND "O" POWER  
HARNESS RED WIRE

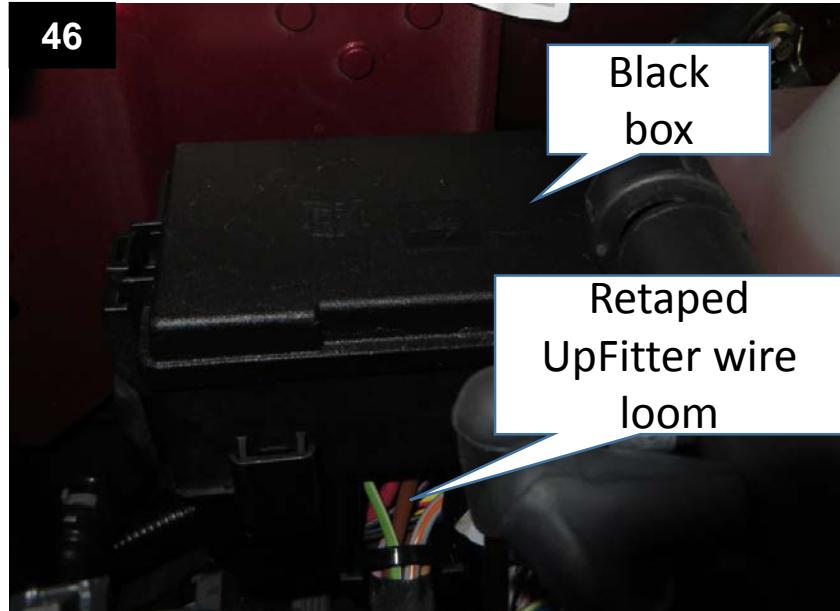
## IMPORTANT:

DURABILITY OF THE HEAT SHRINK BUTT CONNECTION IS DEPENDENT ON SUFFICIENT HEAT DIRECTED TO THE SILVER COLORED RING LOCATED IN THE CENTER OF THE CONNECTOR. ENOUGH HEAT MUST BE APPLIED TO ENSURE THE SOLDER FLOW AROUND THE TWISTED WIRES AFTER THE SOLDER HAS FLOWED. THE HEAT GUN MUST BE DIRECTED TOWARDS BOTH ENDS OF THE CONNECTOR TO SHRINK THE WIRES TO CONFORM TO THE WIRE JACKET AS WELL AS MELT THE ADHESIVE FROM INSIDE THE SHRINK CONNECTOR.

SEE THE FOLLOWING 4 STEPS BELOW FOR FURTHER INFORMATION.

1. INSTALL HEAT SHRINK BUTT CONNECTOR AT LEAST 1" AWAY FROM ONE END OF THE STRIPPED ENDS BEING SPLICED
2. TWIST THE BARE WIRE ENDS TOGETHER (*GR/BR VEHICLE HARNESS AND RED "O" POWER HARNESS*)
3. EVENLY POSITION HEAT SHRINK TUBING OVER WIRE REPAIR AREA OF TWISTED WIRES.
4. USE A SHIELDED HEAT GUN TO HEAT ENTIRE LENGTH OF HEAT SHRINK CONNECTOR UNTIL HOT MELT APPEARS ON BOTH ENDS OF THE TUBING

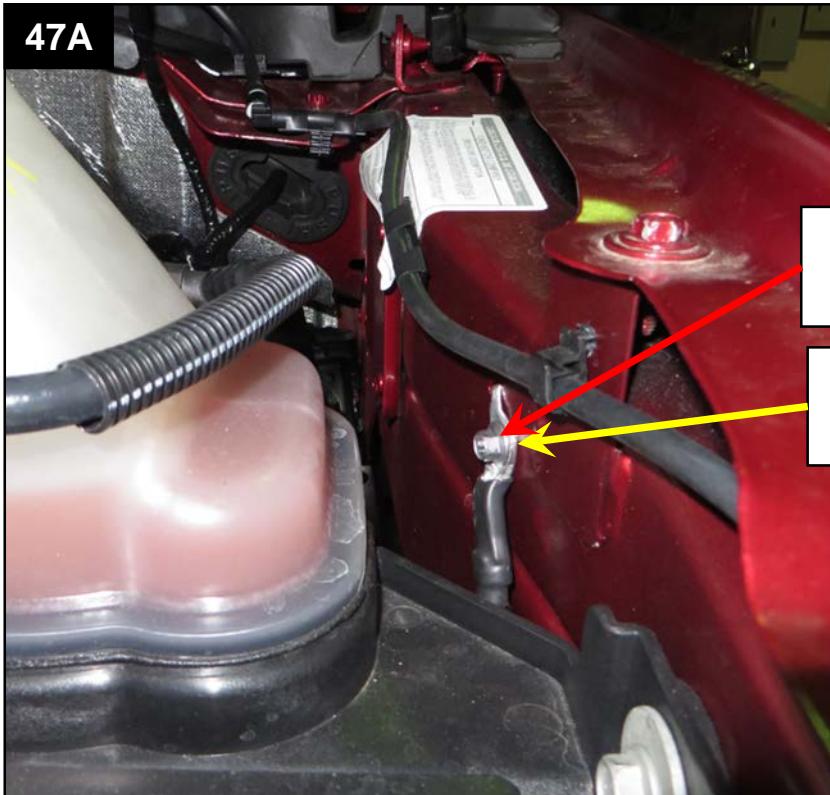
46



RETAPE VEHICLE UPFITTER WIRE LOOM TOGETHER.  
CLIP BLACK BOX BACK INTO POSITION.

Vehicles with  
**UPFITTER**  
Switches **ONLY**

47A

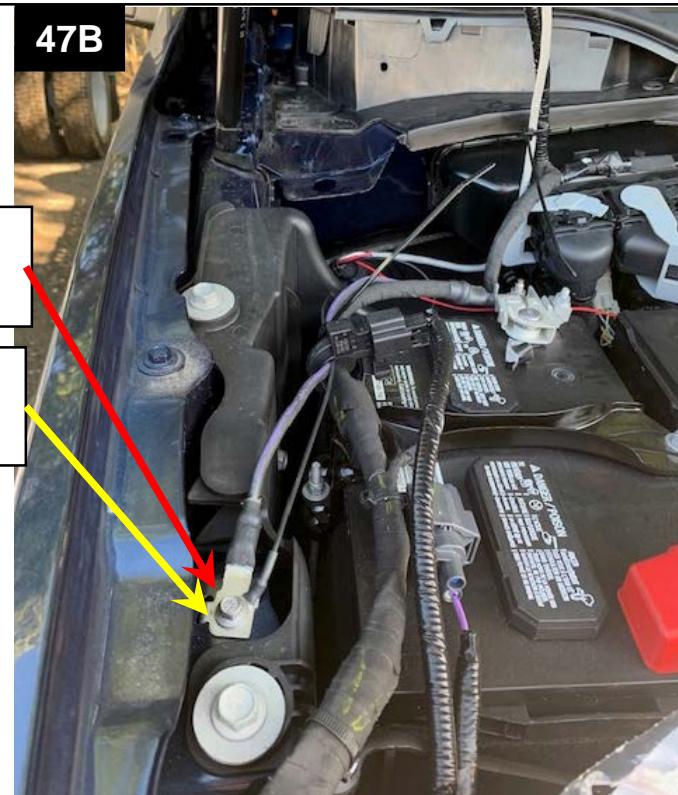


**IMPORTANT**

TORQUE TO 12Nm+/-  
1.8 Nm

VEHICLE GROUND  
LOCATION

47B



\*\*OLDER MODEL SUPERDUTY (DRIVER SIDE)\*\*

\*\*2020 OR NEWER MODEL SUPERDUTY  
(PASSENGER SIDE)\*\*

ATTACH BLACK GROUND CABLE FROM "O1"  
HARNESS TO EXISTING GROUND LOCATION

Vehicles with  
**UPFITTER**  
Switches **ONLY**

**CUSTOM**  
accessories 

48

## REASSEMBLY OF TRUCK COMPONENTS

- TRIM PANELS
- SCREWS
- RUBBER GASKETS
- RE-ATTACH BATTERY
- WHEEL LINER (IF APPLICABLE)
- VERIFY TORQUE TO SPECIFIED SETTINGS
- REATTACH HARNESSSES
- REATTACH HOODLINER (IF EQUIPPED)

49



APPLY UPFITTER LABEL "P" TO THE 4<sup>TH</sup> SWITCH  
FROM THE LEFT ON UPFITTER SWITCH PANEL

50

## VERIFY FUNCTION OF LIGHTS



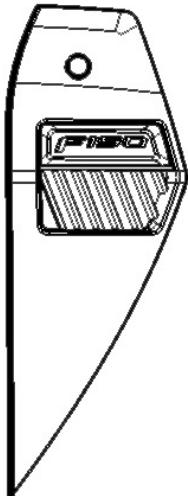
Official  
Licensed  
Product

custom  
accessories

44

## VEHICLES WITHOUT UPFITTER SWITCHES

SIDE PANEL WITH SWITCH

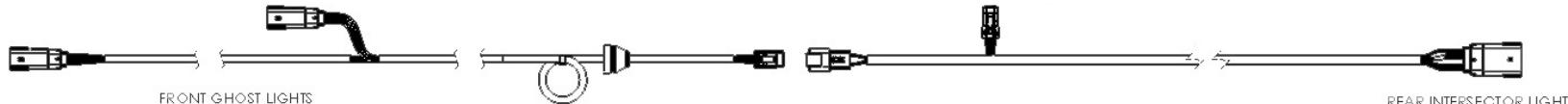


**SWITCH PIN LAYOUT**  
PIN 1 = RED< LIGHT POWER  
PIN 2 = RED< VEHICLE POWER  
PIN 3 = BLACK, GROUND

7.5 AMP IN LINE FUSE

ORANGE WIRE, POWER  
BLACK WIRE, GROUND

**SWITCH PIN LAYOUT -AMBER/WHITE**  
PIN 1 = RED< WARNING LIGHT POWER  
PIN 2 = WHITE< VEHICLE GROUND  
PIN 3 = ORANGE< TASK LIGHT POWER



**SoundOff  
Signal**   
Smart Design.



Official  
Licensed  
Product

custom  
accessories

45

## VEHICLES WITH UPFITTER SWITCHES



WITHIN WIRE LOOM.  
LOCATE **GY/BR WIRE** AND  
ATTACH TO **RED POWER**  
WIRE ON 6' POWER  
HARNESS "O1".

OPERATES WITH UPFITTER  
SWITCH "AUX4"



**RED - POWER**  
**BLACK - GROUND**

## Note to Dealer or end Customer

To change the flash pattern of your lighting kit, contact SoundOff Signal by phone at 800.338.7337, or through e-mail at [customerservice@soundoffsignal.com](mailto:customerservice@soundoffsignal.com), to find a dealership near you to purchase the necessary harness.

Part Number: PFD4CPSAD1



# Notes



**SoundOff<sup>®</sup>**  
Smart Design.

**Custom**  
accessories  
Ford



**Important  
PLACE THIS  
INSTRUCTION SHEET  
INTO GLOVE BOX**

