### **SMARTCAP**<sup>®</sup>

# **INSTRUCTION GUIDE FORD F-150 EDITION** 2021-2023

- PREPARE A CLEAN WORK AREA.
- ▼ WE RECOMMEND A MINIMUM OF 2 PEOPLE FOR ASSEMBLY.
- ▼ ENSURE THE REQUIRED TOOLS ARE PRESENT AND ALL HARDWARE CONTENTS ARE ACCOUNTED FOR.
- NEVER USE ACETONE OR THINNERS ON PAINTED PARTS.
- ▼ READ THROUGH THE ENTIRE INSTRUCTION GUIDE BEFORE STARTING THIS PROCEDURE AND FOLLOW THE STEPS CAREFULLY TO AVOID ANY DAMAGE TO THE COMPONENTS OR THE VEHICLE.

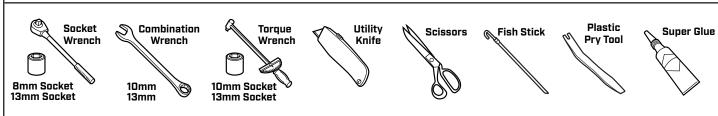
SMARTCAP.COM - SUPPORT.NA@SMARTCAP.COM - NORTH AMERICA







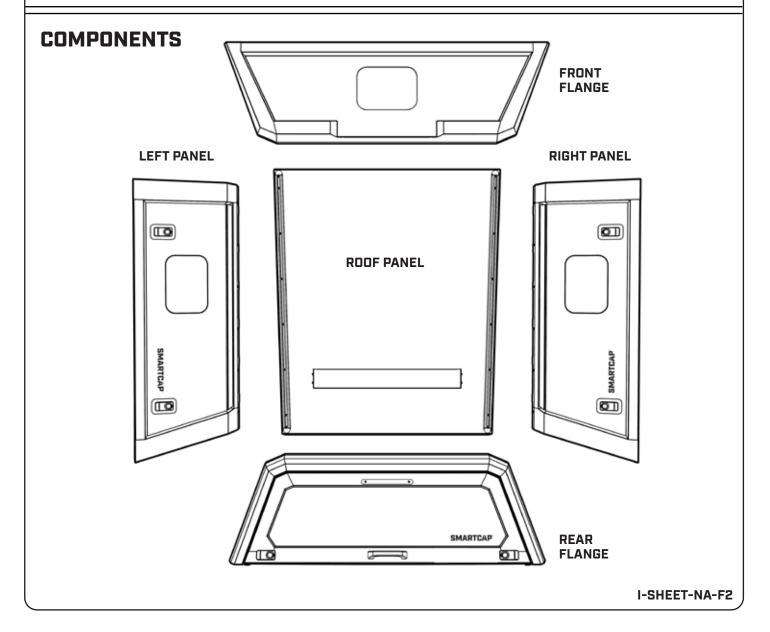
### **TOOLS REQUIRED**





### **IMPORTANT**

- **▼** USE ONLY THE TOOLS RECOMMENDED ABOVE.
- **▼** USE ONLY THE HARDWARE PROVIDED IN THIS KIT.
- ASSISTANCE WILL BE NEEDED FOR THIS INSTALLATION.
   FOUR PEOPLE ARE RECOMMENDED TO LIFT THE SMARTCAP ONTO THE VEHICLE.
- AVOID PINCHING OR CRUSHING HANDS AND FINGERS.
- **▼ INSPECT ALL KIT COMPONENTS FOR DAMAGE BEFORE ASSEMBLY.**
- ▼ NEVER USE ACETONE OR THINNERS ON PAINTED PARTS.



### **ASSEMBLY HARDWARE**

### FITMENT KIT

M6 BOLT



30X

FASTENER BLOCK CLAMP



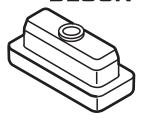
30X

M6 LOCK WASHER



30X

FASTENER BLOCK



30X

D-RUBBER



1X

**SPARE PARTS** 







- PRE-FASTENED TO ROOF PANEL---

M6 FENDER WASHER



12X SHORT BED

14X STANDARD BED

M6 LOCK NUT



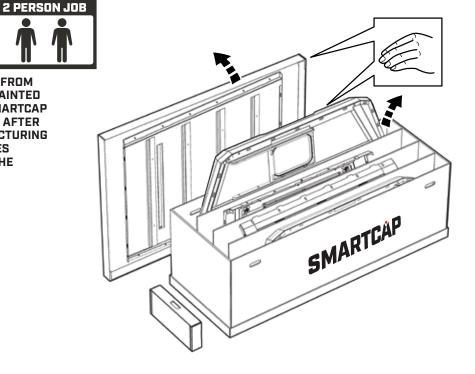
12X SHORT BED

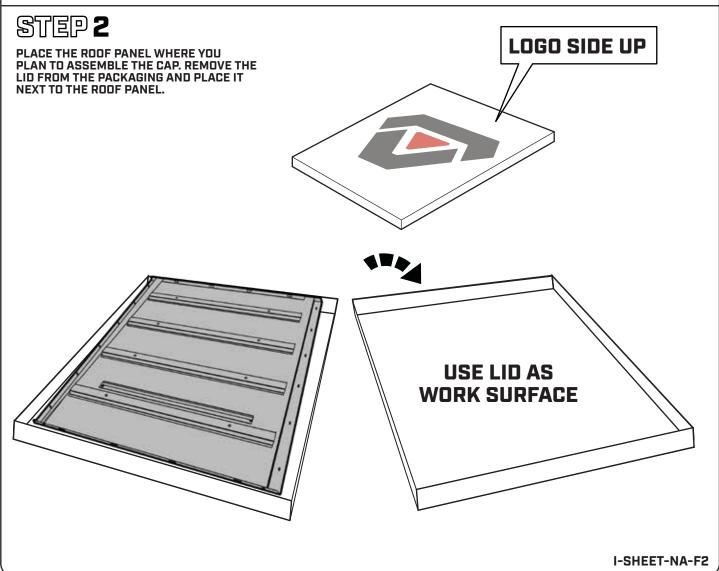
14X | S

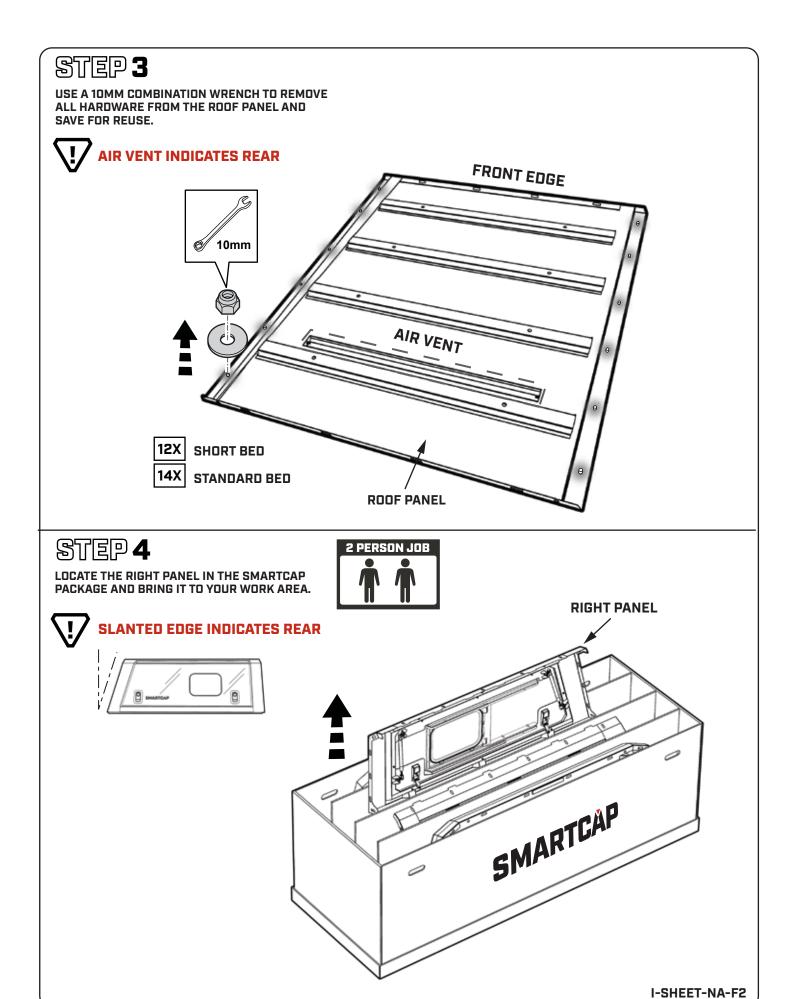
**STANDARD BED** 

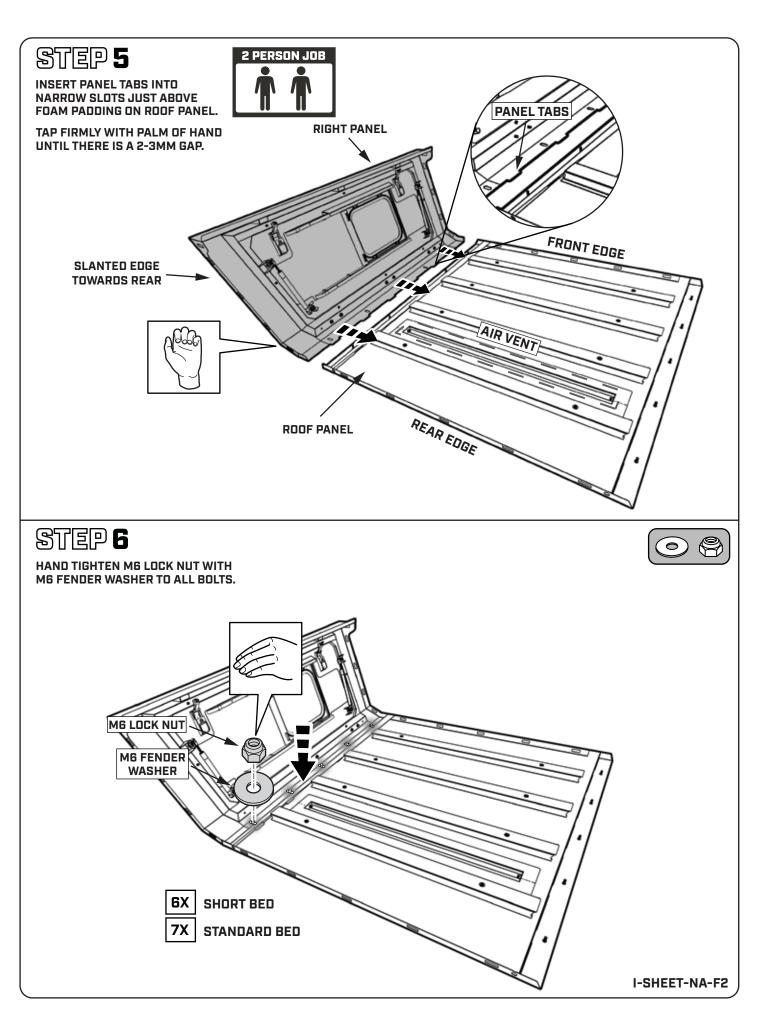


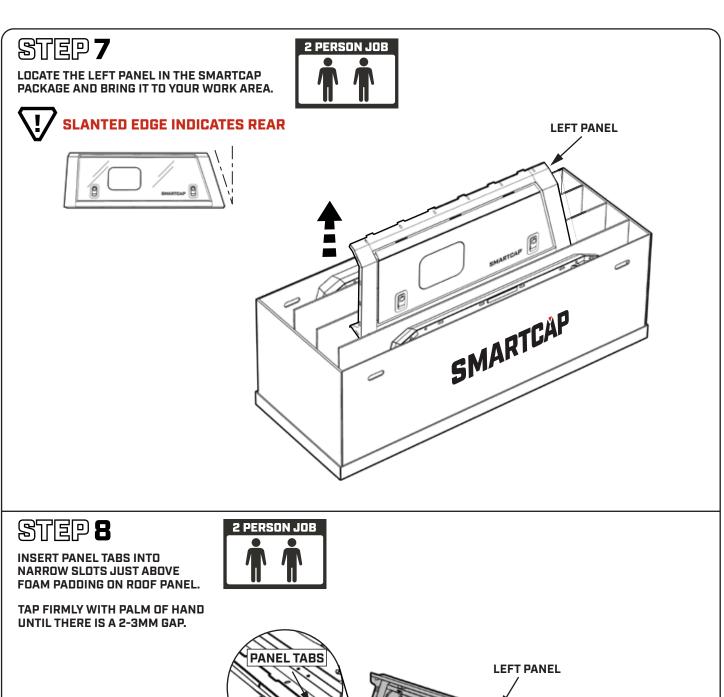
▼ BE SURE TO REMOVE ALL FIVE PANELS FROM THEIR PACKAGING AND INSPECT THE PAINTED SURFACES PRIOR TO ASSEMBLY, AS SMARTCAP WILL NOT ACCEPT WARRANTY CLAIMS AFTER ASSEMBLY IS COMPLETED. IF MANUFACTURING IMPERFECTIONS OR SHIPPING DAMAGES ARE FOUND, DO NOT CONTINUE WITH THE ASSEMBLY PROCESS AND CONTACT SUPPORT.NA@SMARTCAP.COM.

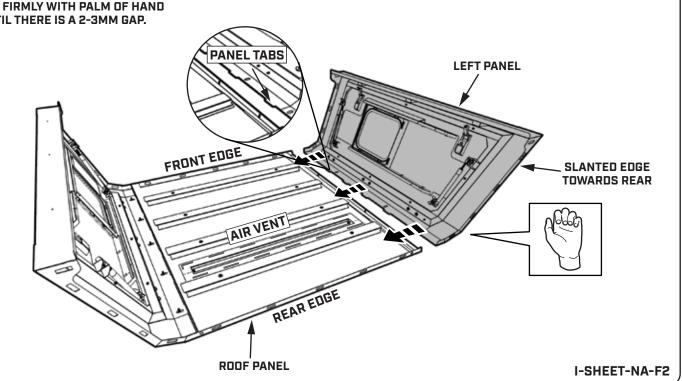






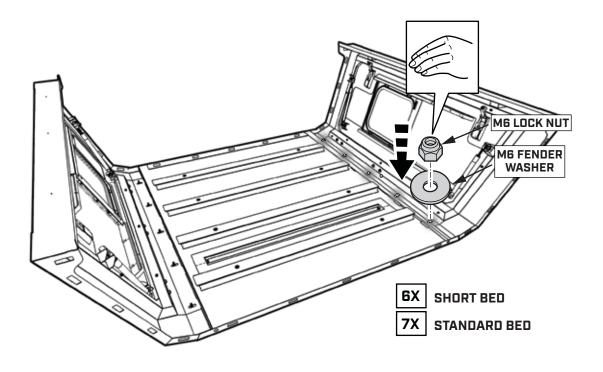






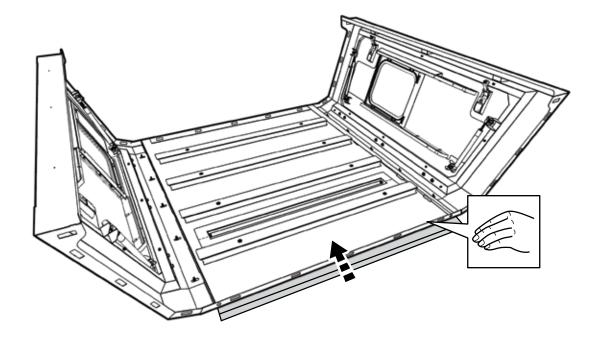
HAND TIGHTEN M6 LOCK NUT WITH M6 FENDER WASHER TO ALL BOLTS.





# STEP 10

PUSH THE SMARTCAP TO EXPOSE A FEW INCHES OF STYRAFOAM UNDERNEATH THE ROOF PANEL TO PROVIDE SUPPORT FOR THE FRONT FLANGE.

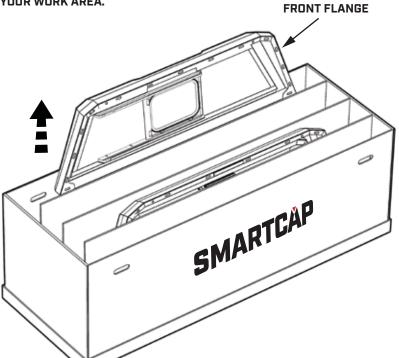


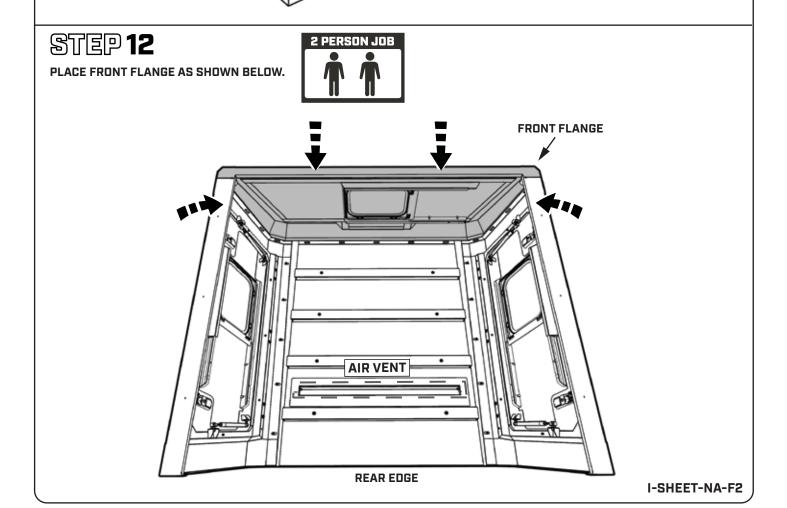
RETRIEVE THE NECESSARY HARDWARE FROM THE FITMENT KIT.

LOCATE THE FRONT FLANGE IN THE SMARTCAP PACKAGE AND BRING IT TO YOUR WORK AREA.









INSTALL HARDWARE ALONG FRONT FLANGE WITH M6 BOLT ON INSIDE.

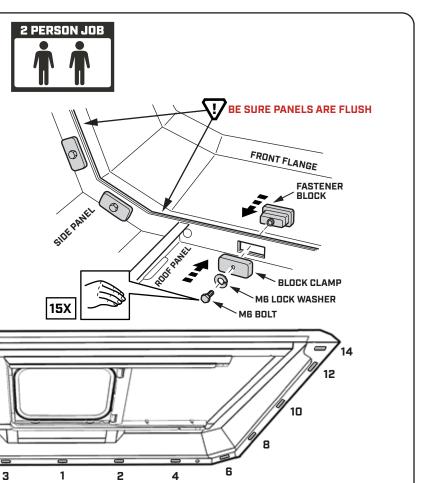
START WITH ASSEMBLING FASTENER BLOCKS 1-5.

ADJUST LEFT AND RIGHT PANELS TO ALIGN FASTENER BLOCKS 6-15 FOR ASSEMBLY.

HAND TIGHTEN IN THE SEQUENCE SHOWN.

15

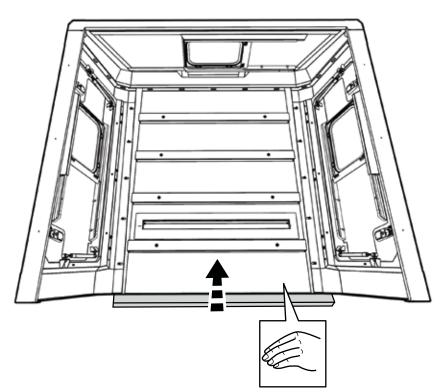
13



# STEP 14

PUSH THE SMARTCAP TO EXPOSE A FEW INCHES OF STYRAFOAM UNDERNEATH THE ROOF PANEL TO PROVIDE SUPPORT FOR THE REAR FLANGE.

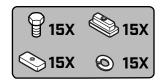
5

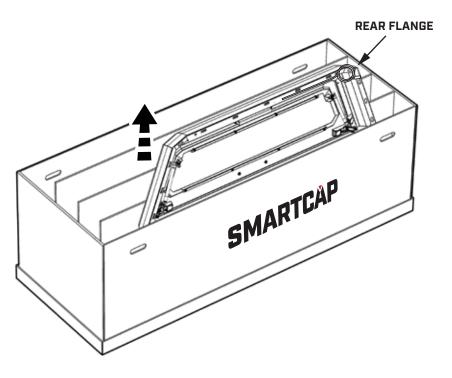


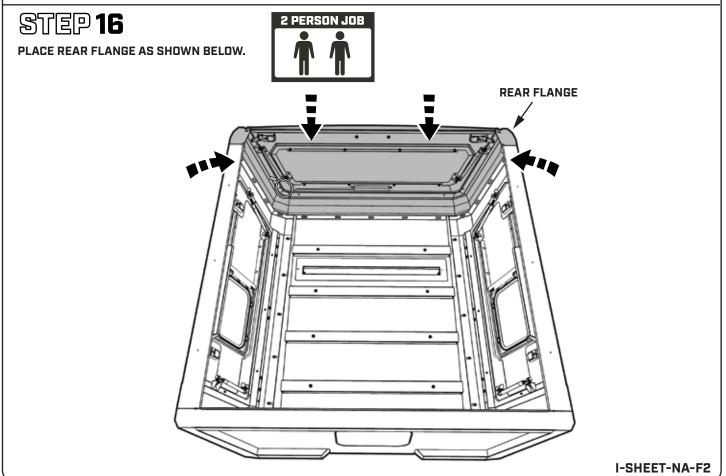
RETRIEVE THE NECESSARY HARDWARE FROM THE FITMENT KIT.

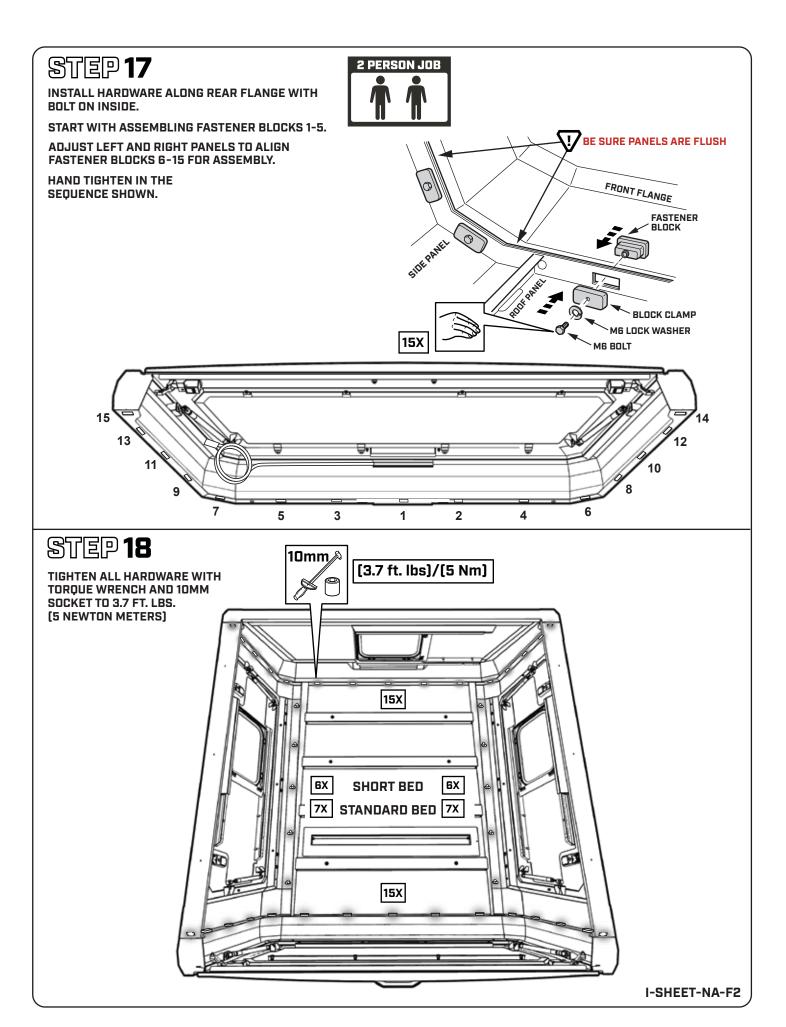
LOCATE THE REAR FLANGE IN THE SMARTCAP PACKAGE AND BRING IT TO YOUR WORK AREA.

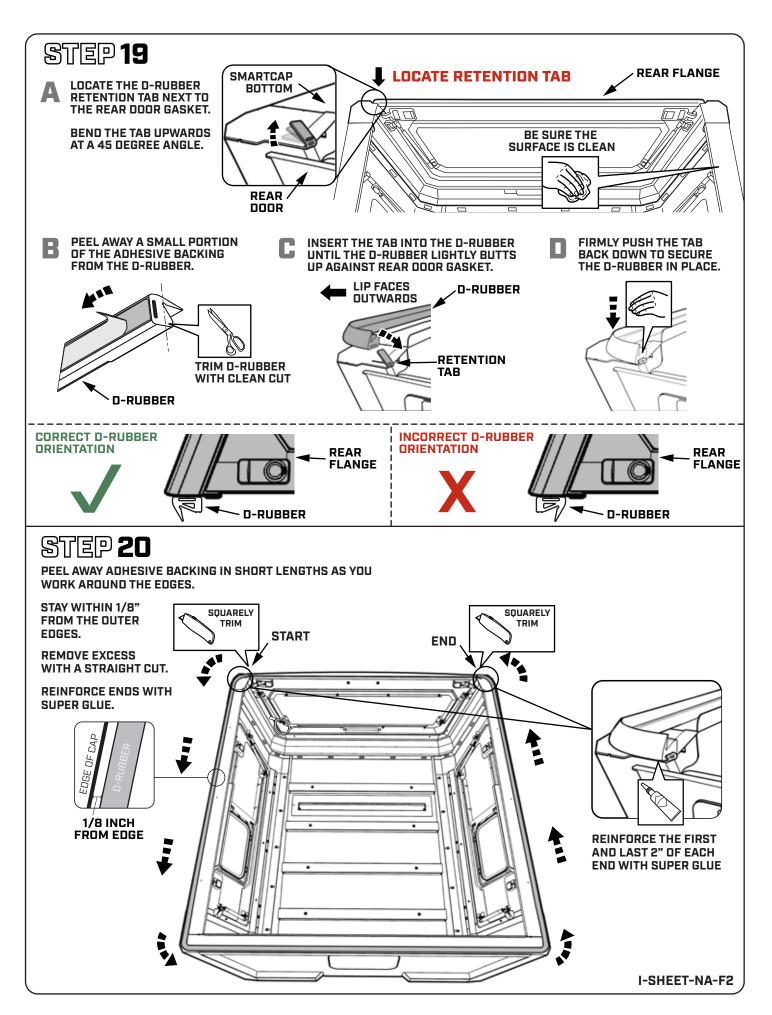






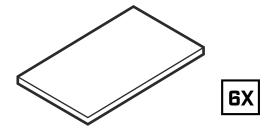




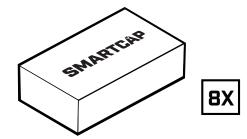


### **INSTALLATION HARDWARE**

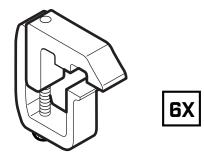
# THIN RUBBER PAD



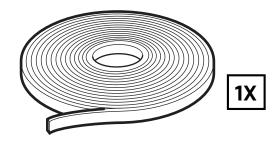
### THICK RUBBER PAD



### **MOUNTING CLAMP**



### **FOAM SEAL TAPE**

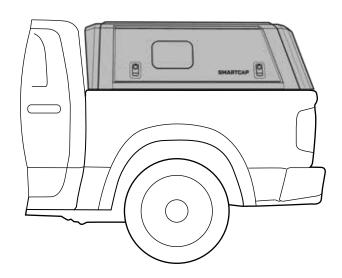


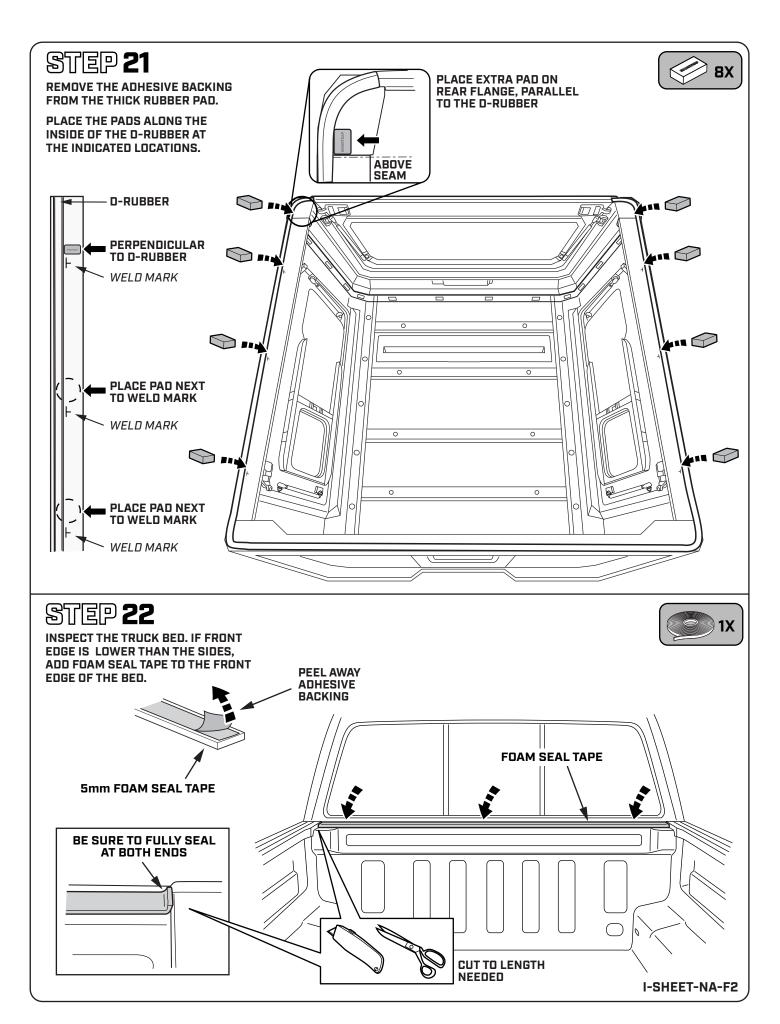
### **VEHICLE INSTALLATION**



# \!/ IMPORTANT

- ▼ ASSISTANCE WILL BE NEEDED FOR THIS INSTALLATION. FOUR PEOPLE ARE RECOMMENDED TO LIFT THE SMARTCAP ONTO THE VEHICLE.
- AVOID PINCHING OR CRUSHING HANDS AND FINGERS.
- READ THROUGH THE ENTIRE PROCEDURE BEFORE STARTING.

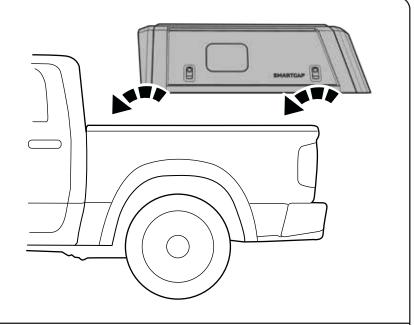




USE 4 PEOPLE TO LIFT THE ASSEMBLED SMARTCAP ONTO THE TRUCK BED.

TO AVOID DAMAGE TO THE D-RUBBER, DO NOT SLIDE THE SMARTCAP INTO PLACE.



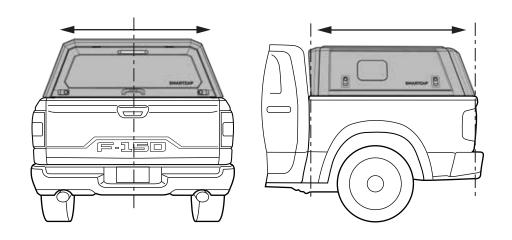


# STEP **24**

CHECK THAT THE SMARTCAP IS PROPERLY POSITIONED AND CENTERED ON THE TRUCK BED.

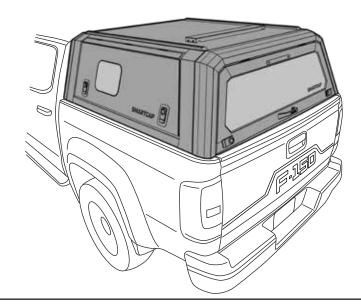
IT'S IMPORTANT THAT THE SMARTCAP IS NOT PUSHED TOO FAR FORWARD, LEAVING A GAP BETWEEN THE SMARTCAP AND THE CAB.

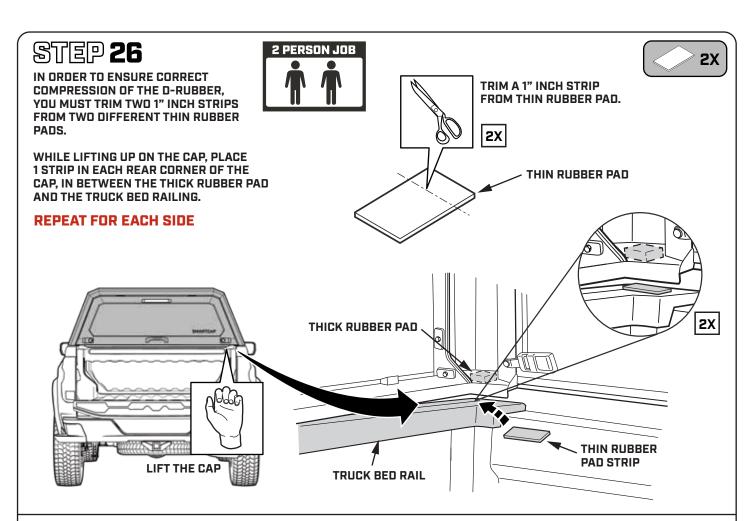




# STEP 25

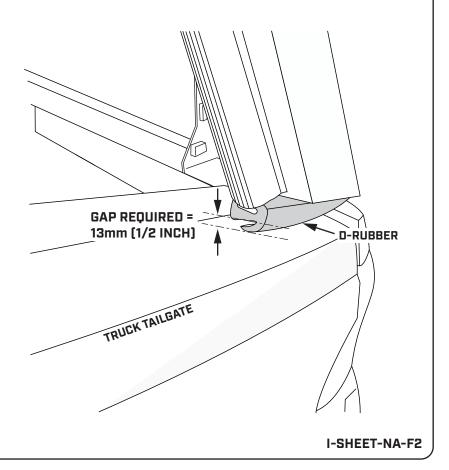
WALK AROUND THE TRUCK BED TO MAKE SURE THE D-RUBBER FITMENT IS CORRECT AND THAT THE RUBBER LIP IS PROPERLY TUCKED UNDERNEATH THE CAP.

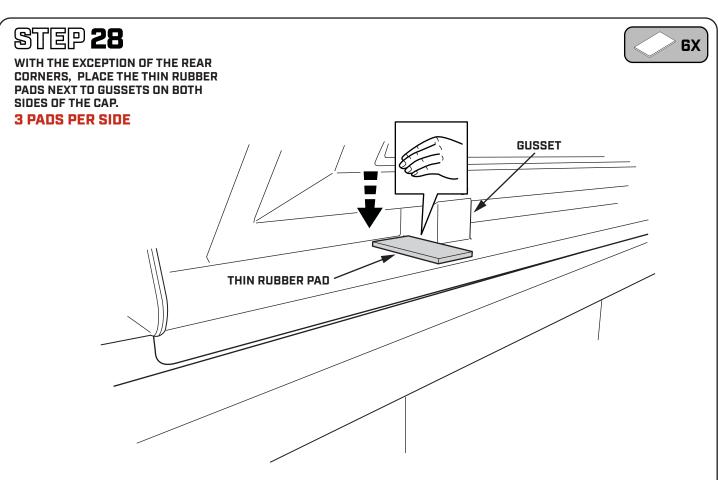


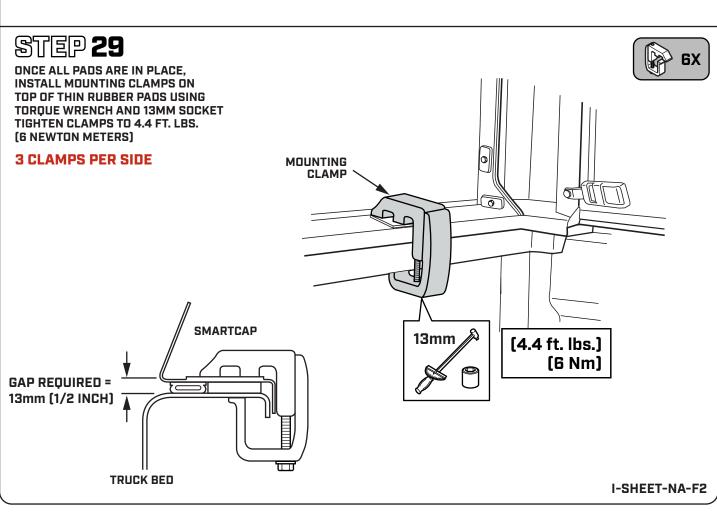


CHECK THE OPERATION OF THE TAILGATE. THE LIP OF THE D-RUBBER SHOULD RUB THE TAILGATE WHEN OPENING AND CLOSING WITH EASE.

THERE SHOULD BE 1/2 INCH OF SPACE BETWEEN THE D-RUBBER BASE AND THE D-RUBBER LIP WHEN THE TAILGATE IS IN THE CLOSED POSITION.



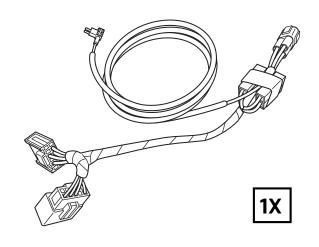


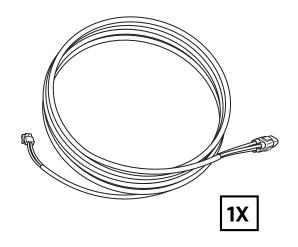


### THIRD BRAKE LIGHT HARDWARE

### **T-HARNESS**

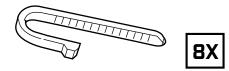
### **CONNECTOR HARNESS**





### **CABLE TIE**





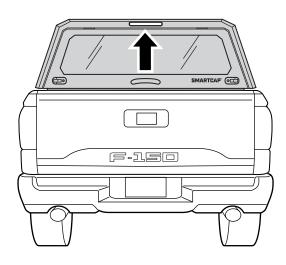


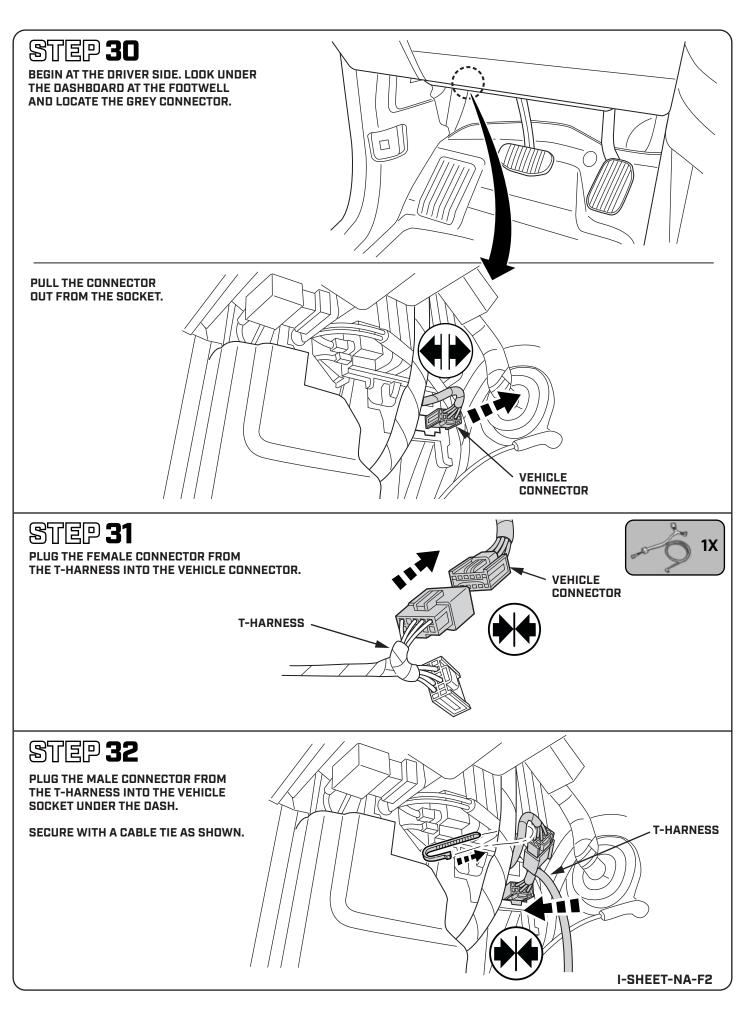


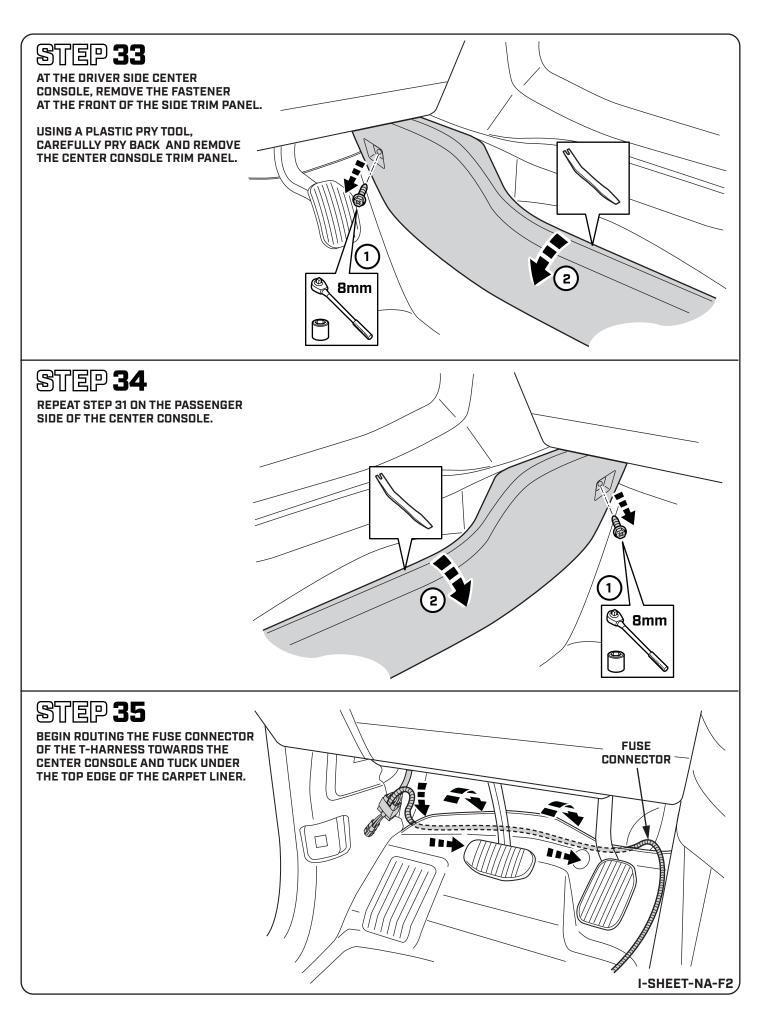


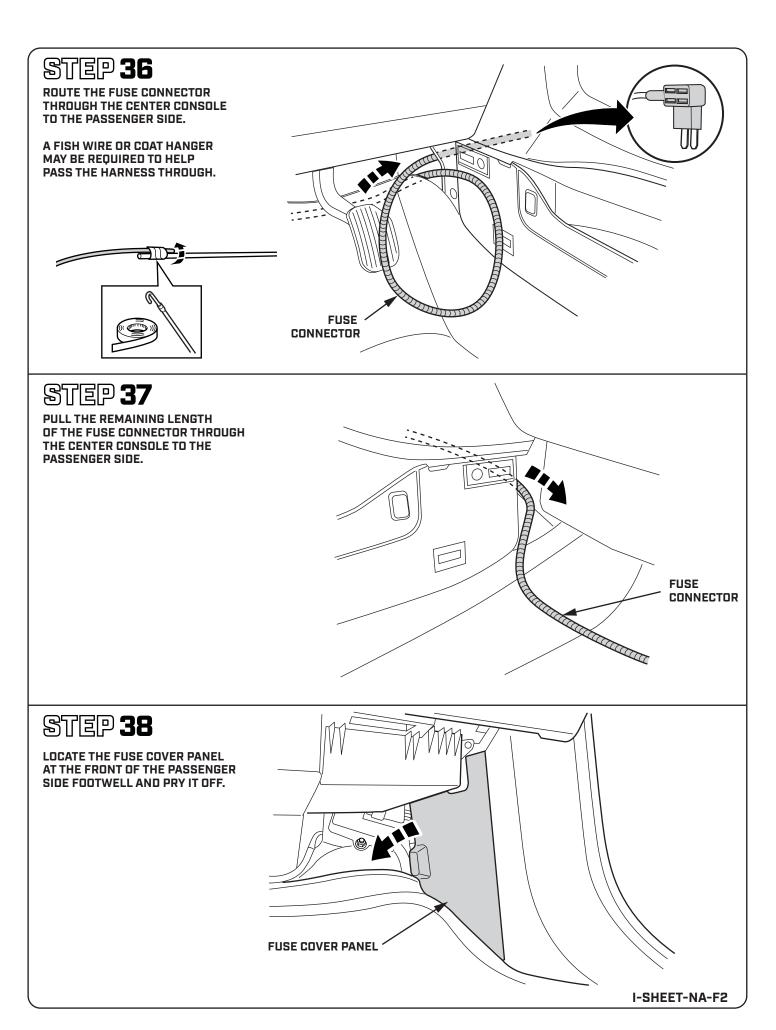
### **IMPORTANT**

- ▼ BE SURE THE VEHICLE IS TURNED OFF FOR THIS INSTALLATION.
- ▼ READ THROUGH THE ENTIRE PROCEDURE BEFORE STARTING AND FOLLOW THE STEPS CAREFULLY TO ENSURE THE THIRD BRAKE LIGHT WILL FUNCTION PROPERLY.
- ▼ USE A TEST LIGHT TO CHECK FOR SUCCESSFUL INSTALLATION.

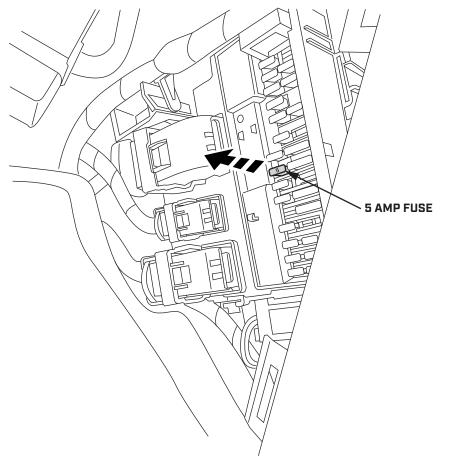








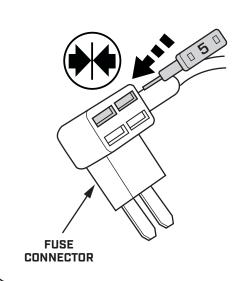
LOCATE THE 5 AMP FUSE (BELOW THE 15 AMP FUSE) AS INDICATED AND CAREFULLY REMOVE IT FROM THE FUSE PANEL.

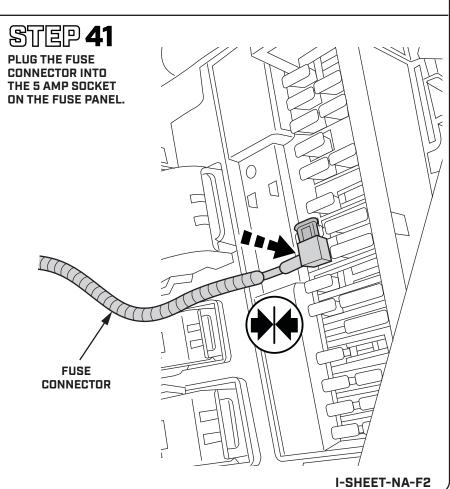


# STEP 40

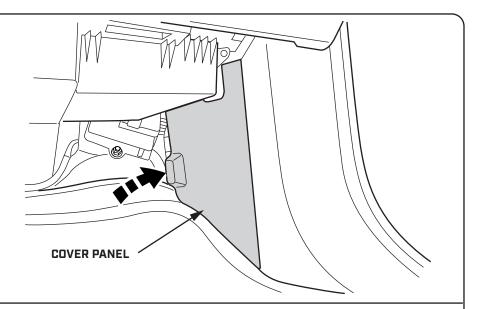
PLUG THE 5 AMP FUSE INTO THE FUSE CONNECTOR AS SHOWN.





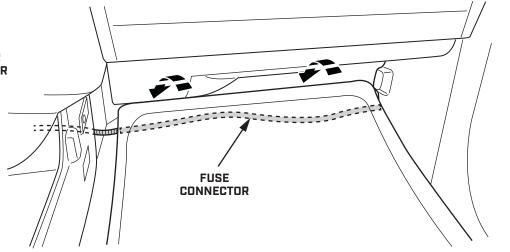


REINSTALL THE FUSE COVER PANEL.



# **STEP 43**

TUCK THE REMAINING LENGTH
OF THE FUSE CONNECTOR UNDER
THE TOP EDGE OF THE PASSENGER
SIDE FOOTWELL CARPET LINER.

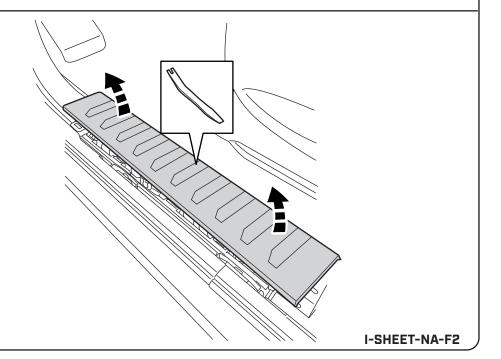


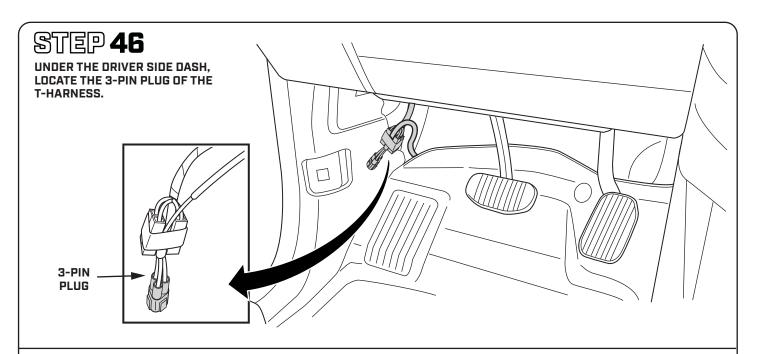
# **STEP 44**

REVERSE STEPS 31 AND 32 TO REINSTALL THE SIDE TRIM PANELS ON THE CENTER CONSOLE.

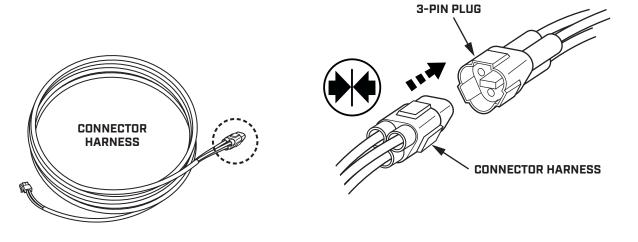
# **STEP 45**

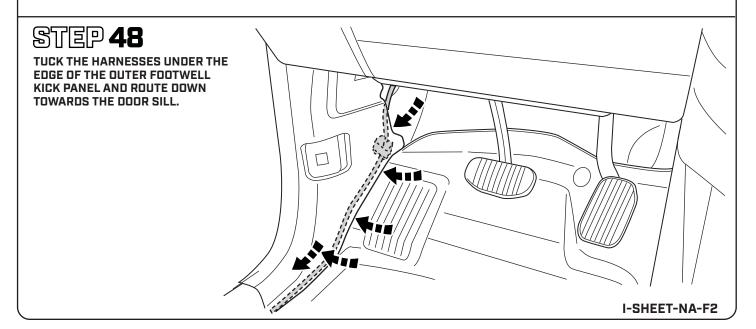
USING A PLASTIC PRY TOOL, CAREFULLY PRY OFF THE DOOR SILL TRIM PLATE ON THE DRIVER SIDE

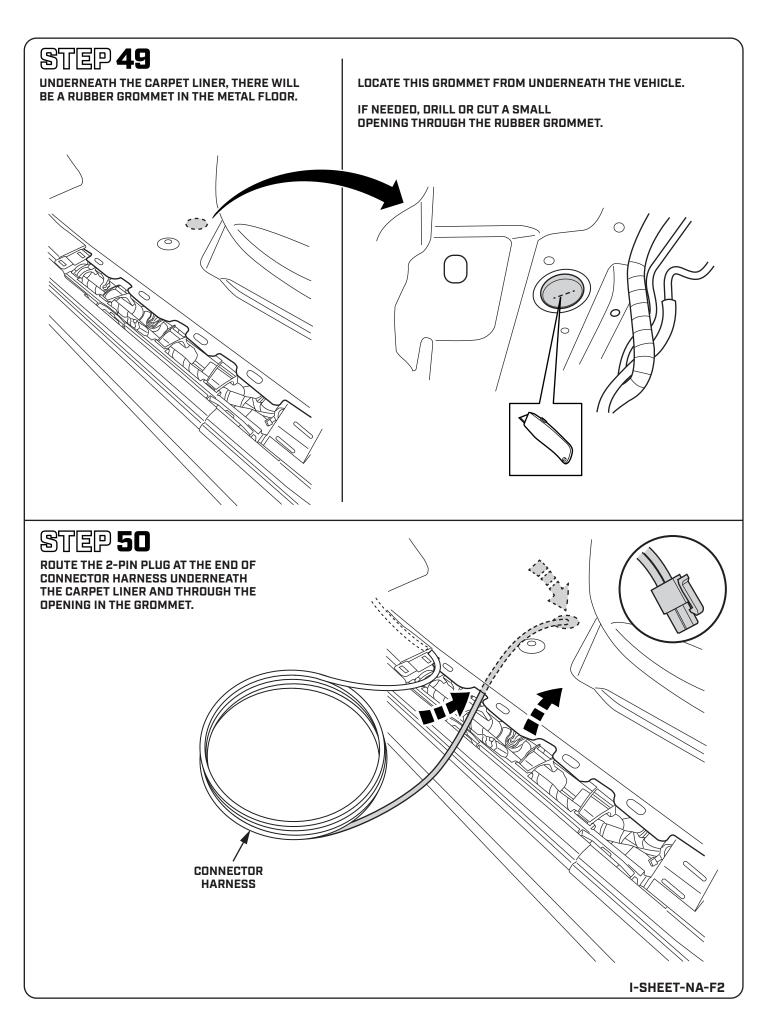




PLUG THE CONNECTOR HARNESS INTO THE 3-PIN PLUG OF THE T-HARNESS.



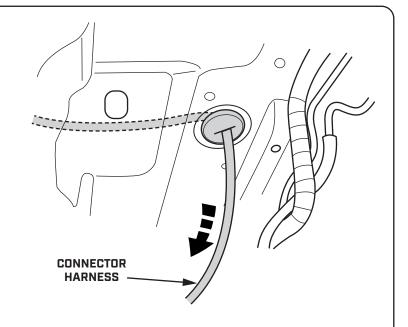




CAREFULLY PULL THE ENTIRE LENGTH OF THE CONNECTOR HARNESS DOWN THROUGH THE GROMMET.

IT IS RECOMMENDED THAT A SEALING COMPOUND BE APPLIED TO THE OPENING FOR WEATHER AND DIRT PROTECTION.

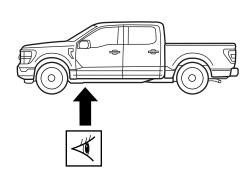


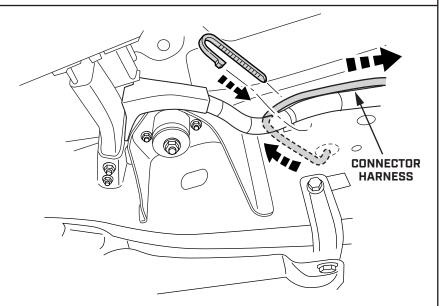


# **STEP 52**

FROM UNDERNEATH THE VEHICLE, BEGIN ROUTING THE CONNECTOR HARNESS OVER THE TOP OF THE DRIVER SIDE FRAME RAIL.

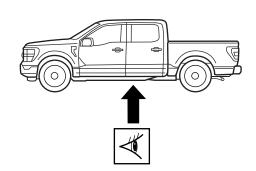
SECURE THE HARNESS ALONG THE OUTSIDE OF THE FRAME WITH CABLE TIES AS SHOWN.

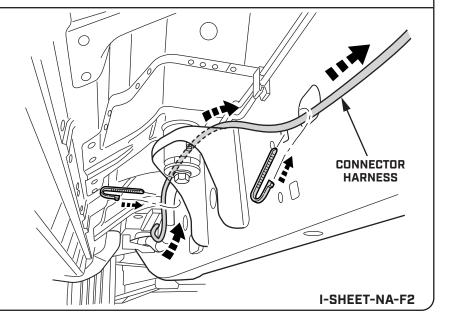




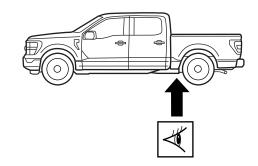
# **STEP 53**

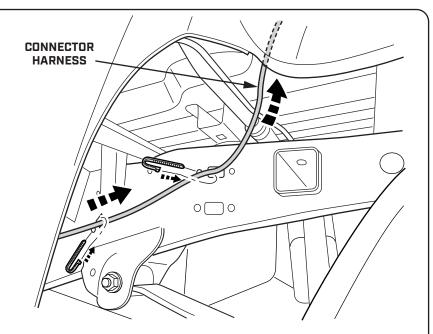
CONTINUE ROUTING THE CONNECTOR HARNESS TOWARDS THE REAR OF THE VEHICLE, SECURING TO THE VEHICLE WITH CABLE TIES AT APPROX. 6 INCH INTERVALS WHENEVER POSSIBLE.





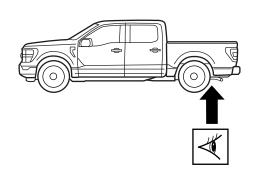
ROUTE THE CONNECTOR HARNESS UP AND OVER THE REAR WHEEL WELL.

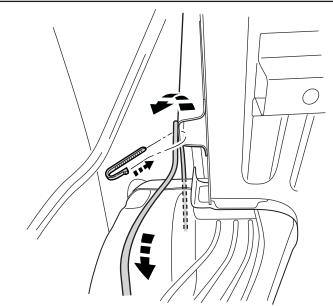




# STEP **55**

ROUTE THE CONNECTOR HARNESS DOWN OVER THE BACK OF THE REAR WHEEL WELL AND SECURE WITH CABLE TIE AS SHOWN.

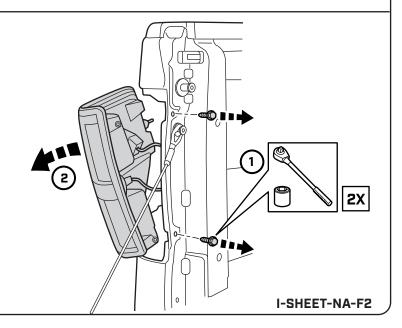


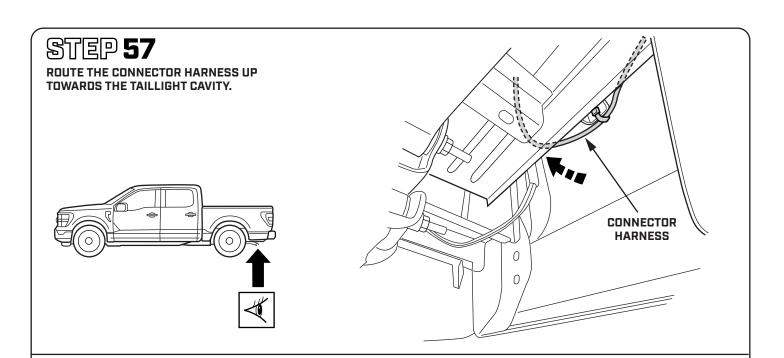


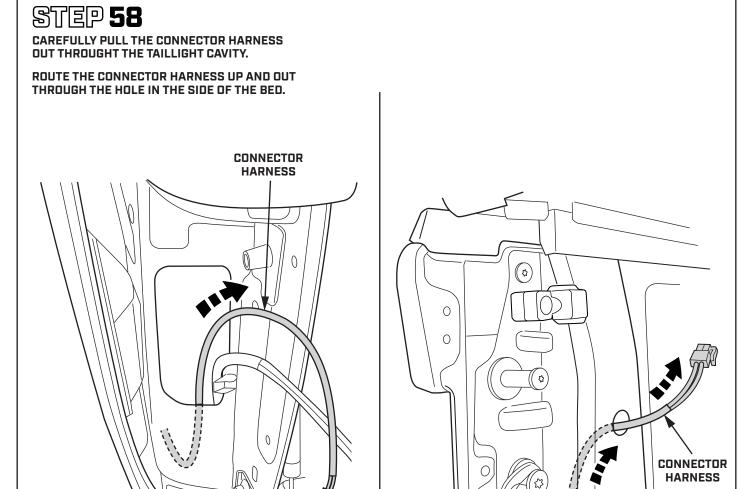
# STEP 56

REMOVE THE BOLTS HOLDING THE DRIVER SIDE TAILLIGHT ASSEMBLY

PLACE THE TAILLIGHT CAREFULLY ON THE TAILGATE. DO NOT UNPLUG ANY CONNECTORS





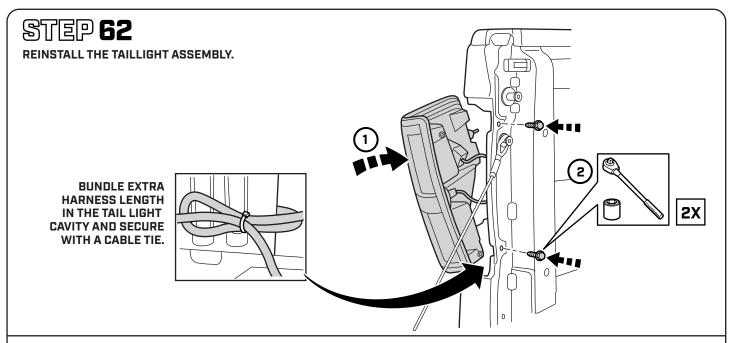


# **STEP 59** - DISCONNECT LOCATE AND DISCONNECT THE THIRD BRAKE LIGHT EXTENSION HARNESS FROM THE INSIDE BACK LEFT CORNER OF THE SMARTCAP. EXTENSION **HARNESS** STEP 60 **CONNECT THE 2-PIN PLUG FROM THE** CONNECTOR HARNESS TO THE THIRD **BRAKE LIGHT HARNESS.** 2-PIN PLUG CONNECTOR **HARNESS** STEP 61 **APPLY AN ADHESIVE CABLE TIE BASE TO** THE TRUCK BED AS SHOWN. SECURE THE **CONNECTOR HARNESS WITH A CABLE TIE.** $( \Diamond )$ 0 0

CONNECTOR HARNESS

I-SHEET-NA-F2

**CABLE TIE BASE** 





### **TEST YOUR BRAKE LIGHTS & TURN SIGNALS**

- ▼ START THE TRUCK. SOME MODELS MAY TAKE UP TO 30 SECONDS FOR THE VEHICLE TO DETECT THE NEW CONNECTION.
- ▼ CHECK THE BRAKE LIGHTS AND TURN SIGNALS TO BE SURE THEY ARE FUNCTIONING PROPERLY.
- ▼ ONCE YOU HAVE CONFIRMED THAT THE LIGHTS ARE WORKING CORRECTLY, SECURE THE HARNESS WITH CABLE TIES.
- **▼** BE SURE NOT TO INTERFERE WITH ANY MOVING PARTS ON THE VEHICLE.

# **SMARTCAP**<sup>®</sup>

THANKS FOR YOUR PURCHASE.
PLEASE LET US KNOW IF YOU HAVE ANY OUESTIONS.

SMARTCAP.COM - SUPPORT.NA@SMARTCAP.COM - NORTH AMERICA





