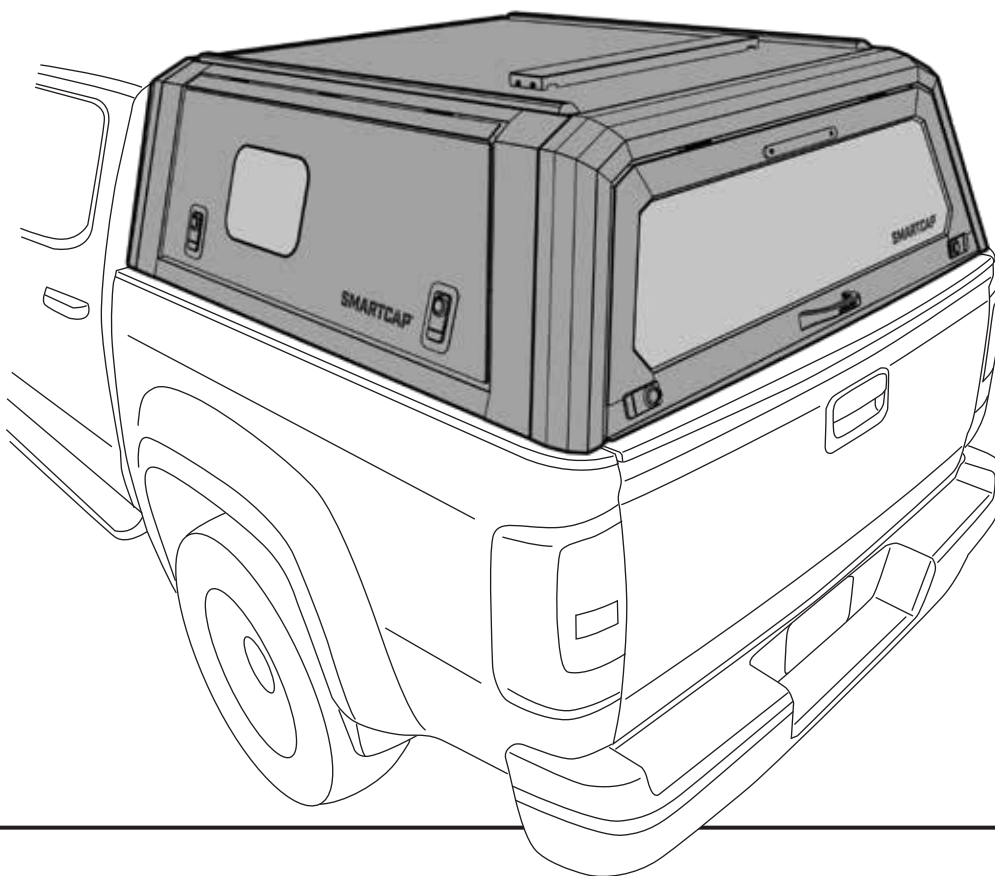


**SMARTCAP®**

# **INSTRUCTION GUIDE**

## **TOYOTA TUNDRA**

### **3RD GENERATION**



- ▼ **PREPARE A CLEAN WORK AREA.**
- ▼ **WE RECOMMEND A MINIMUM OF 2 PEOPLE FOR ASSEMBLY AND 4 PEOPLE FOR INSTALLATION.**
- ▼ **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**



**I-SHEET-NA-TU2**

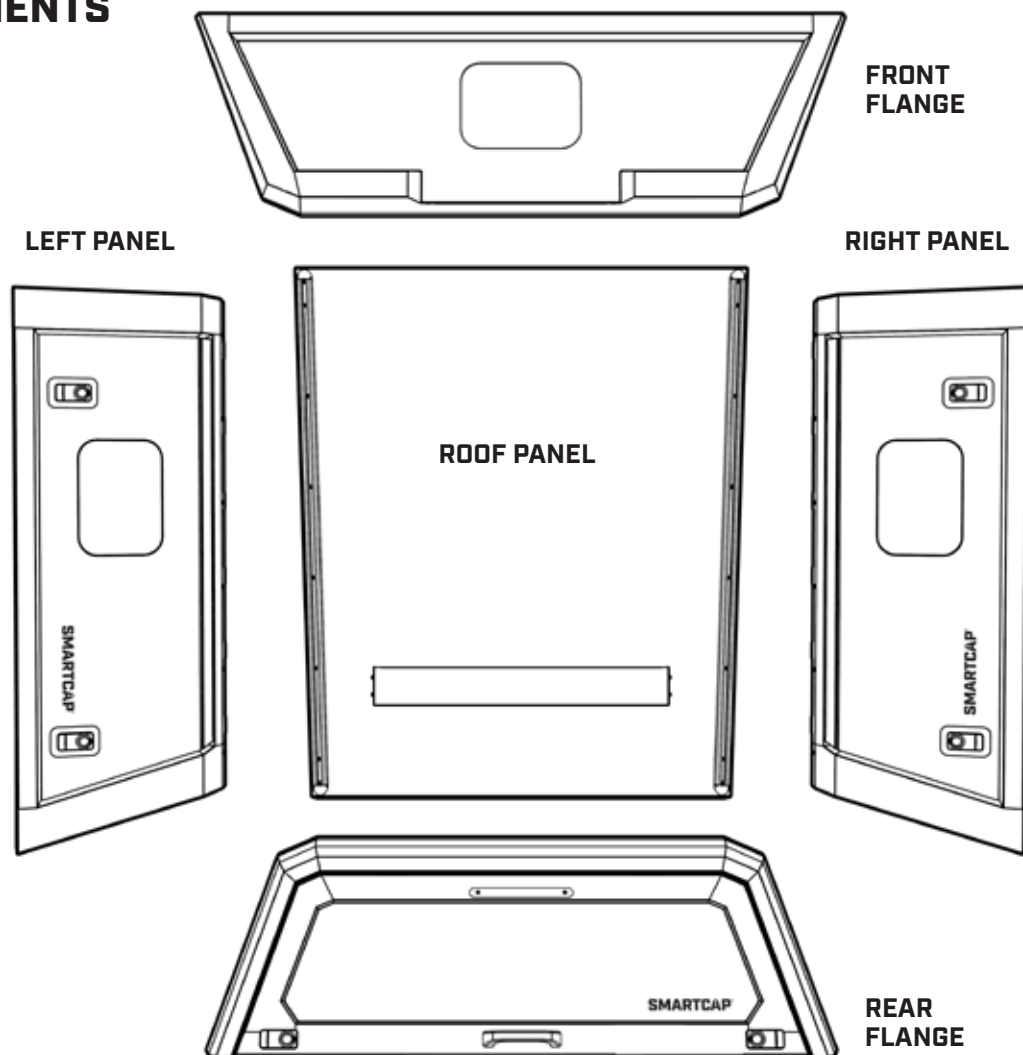
## TOOLS REQUIRED



## 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.

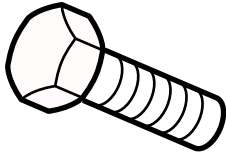
## COMPONENTS



## ASSEMBLY HARDWARE

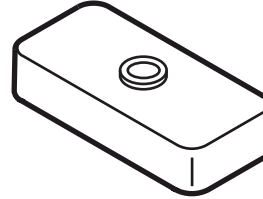
### FITMENT KIT

**M6 BOLT**



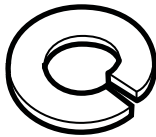
**30X**

**FASTENER  
BLOCK CLAMP**



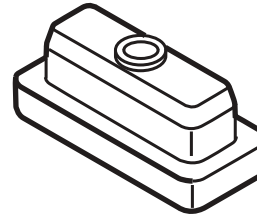
**30X**

**M6 LOCK  
WASHER**



**30X**

**FASTENER  
BLOCK**



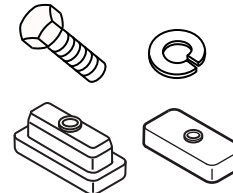
**30X**

**D - RUBBER**



**1X**

**SPARE PARTS**



**2X**

### PRE-FASTENED TO ROOF PANEL

**M6 FENDER  
WASHER**



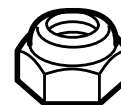
**12X**

**SHORT BED**

**14X**

**STANDARD BED**

**M6 LOCK  
NUT**



**12X**

**SHORT BED**

**14X**

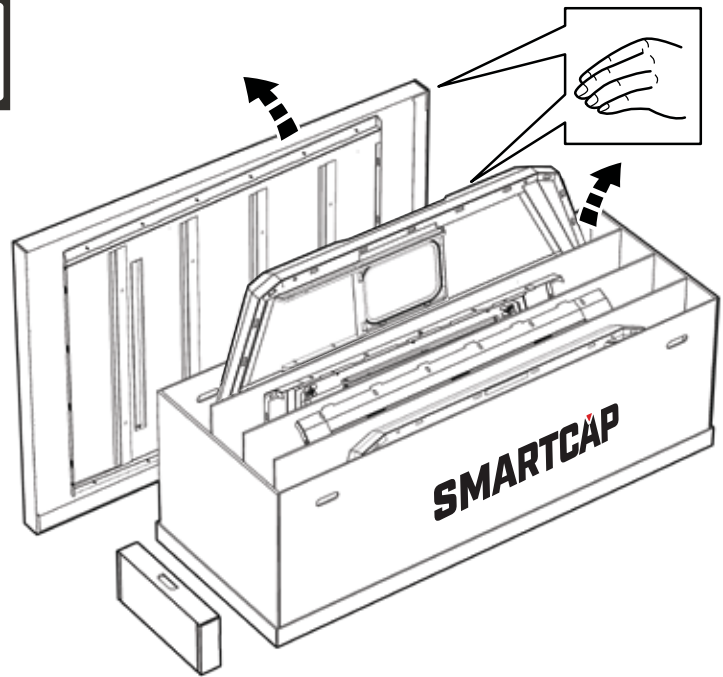
**STANDARD BED**

## STEP 1



### IMPORTANT

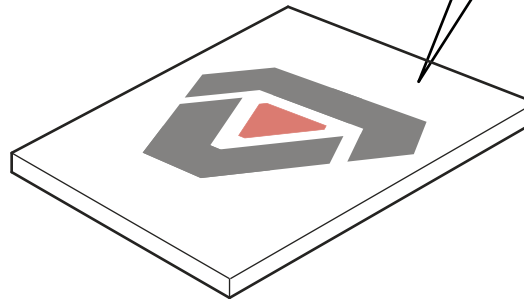
- ▼ BE SURE TO REMOVE ALL FIVE PANELS FROM THEIR PACKAGING AND INSPECT THE PAINTED SURFACES PRIOR TO ASSEMBLY, AS SMARTCAP WILL NOT ACCEPT WARRANTY CLAIMS AFTER ASSEMBLY IS COMPLETED. IF MANUFACTURING IMPERFECTIONS OR SHIPPING DAMAGES ARE FOUND, DO NOT CONTINUE WITH THE ASSEMBLY PROCESS AND CONTACT [SUPPORT.NA@SMARTCAP.COM](mailto:SUPPORT.NA@SMARTCAP.COM).



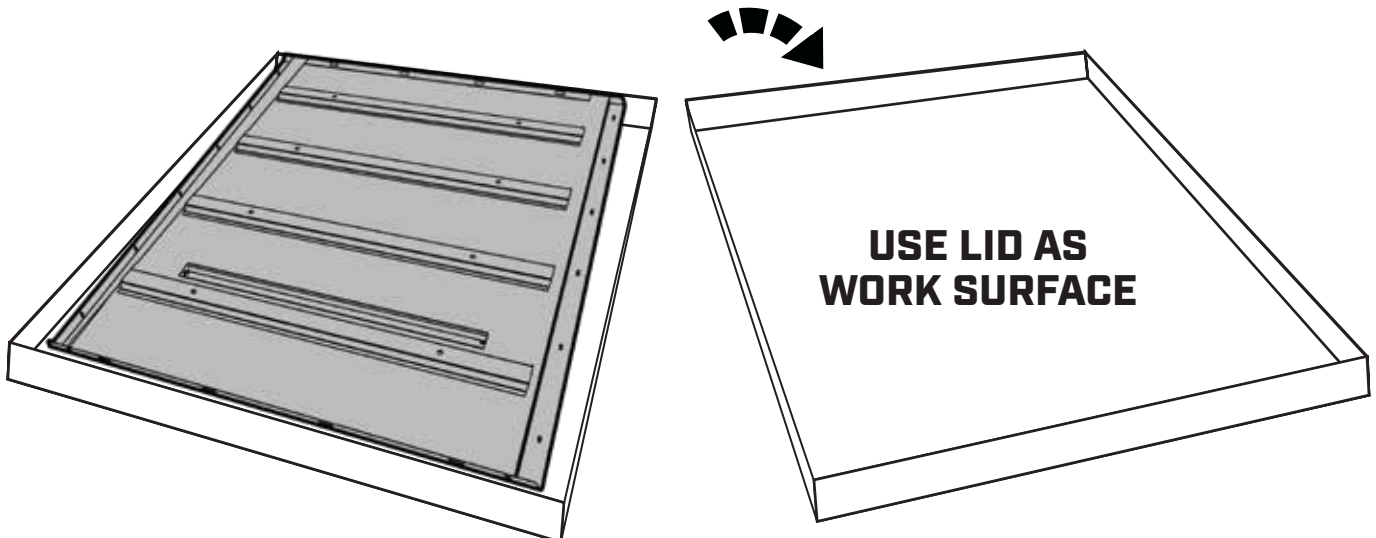
## STEP 2

PLACE THE ROOF PANEL WHERE YOU PLAN TO ASSEMBLE THE CAP. REMOVE THE LID FROM THE PACKAGING AND PLACE IT NEXT TO THE ROOF PANEL.

LOGO SIDE UP



USE LID AS WORK SURFACE



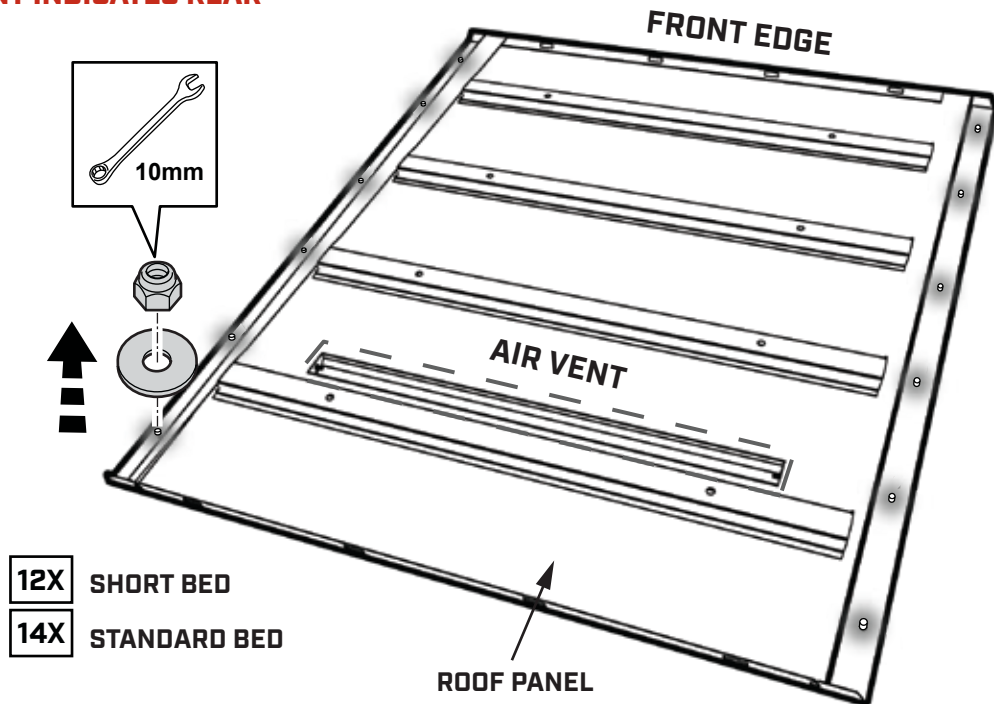
I-SHEET-NA-TU2

## STEP 3

USE A 10MM COMBINATION WRENCH TO REMOVE ALL HARDWARE FROM THE ROOF PANEL AND SAVE FOR REUSE.



**AIR VENT INDICATES REAR**



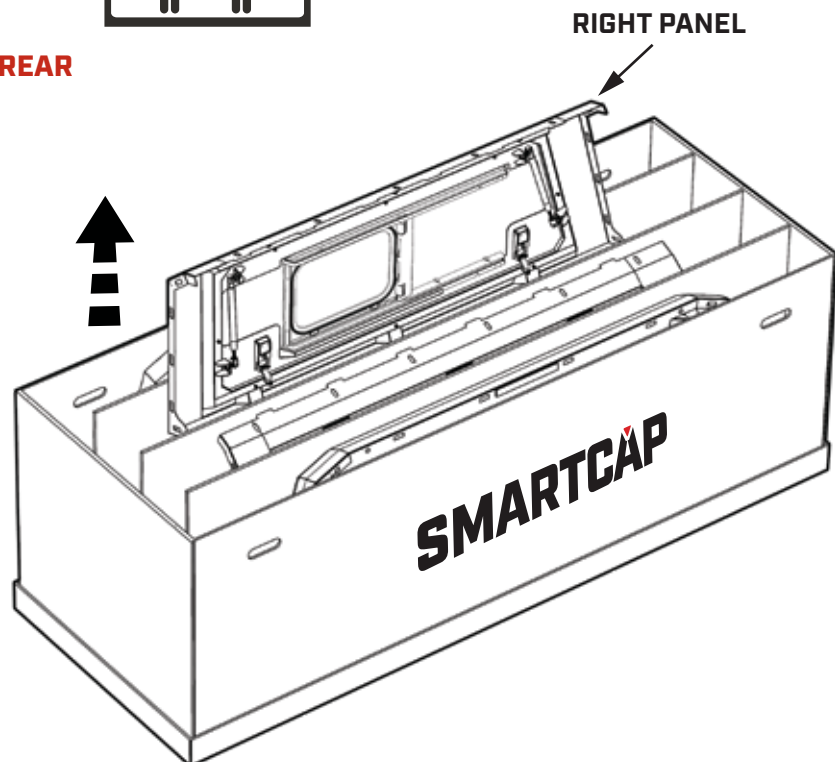
## STEP 4

LOCATE THE RIGHT PANEL IN THE SMARTCAP PACKAGE AND BRING IT TO YOUR WORK AREA.

**2 PERSON JOB**



**SLANTED EDGE INDICATES REAR**

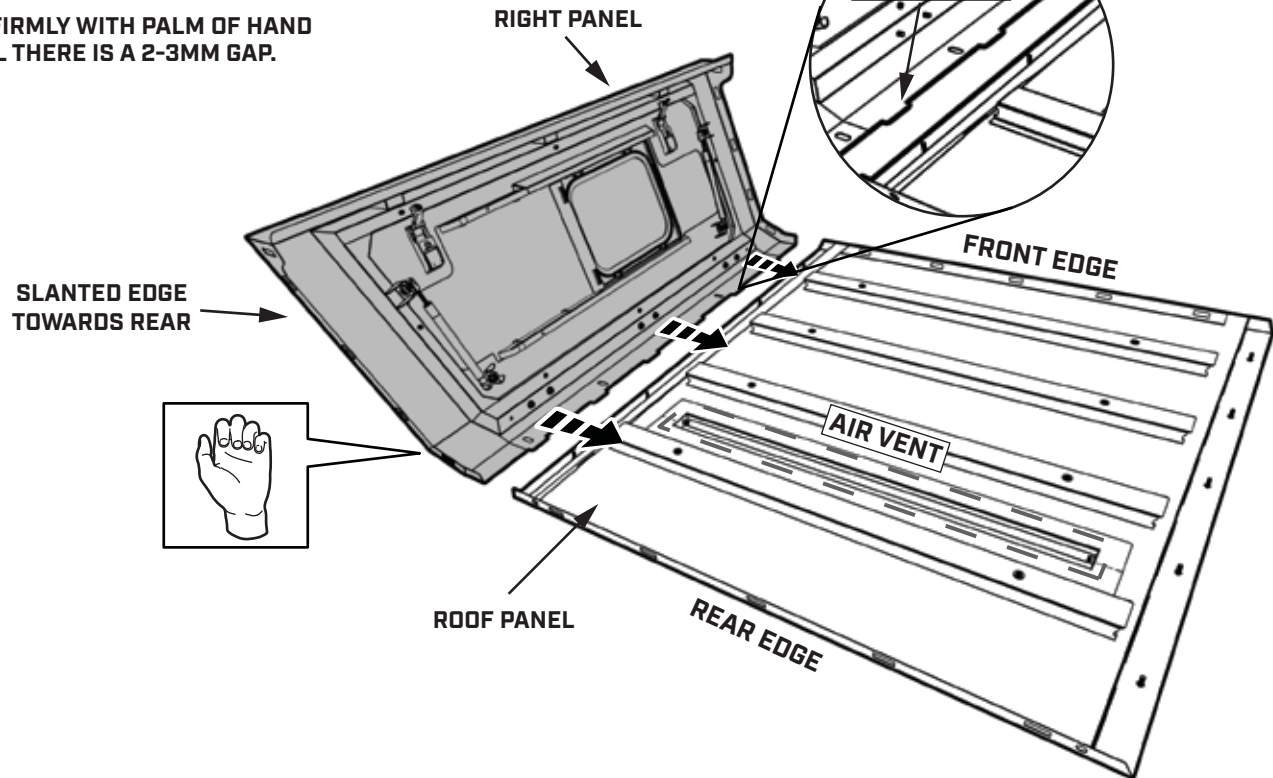


I-SHEET-NA-TU2

## STEP 5

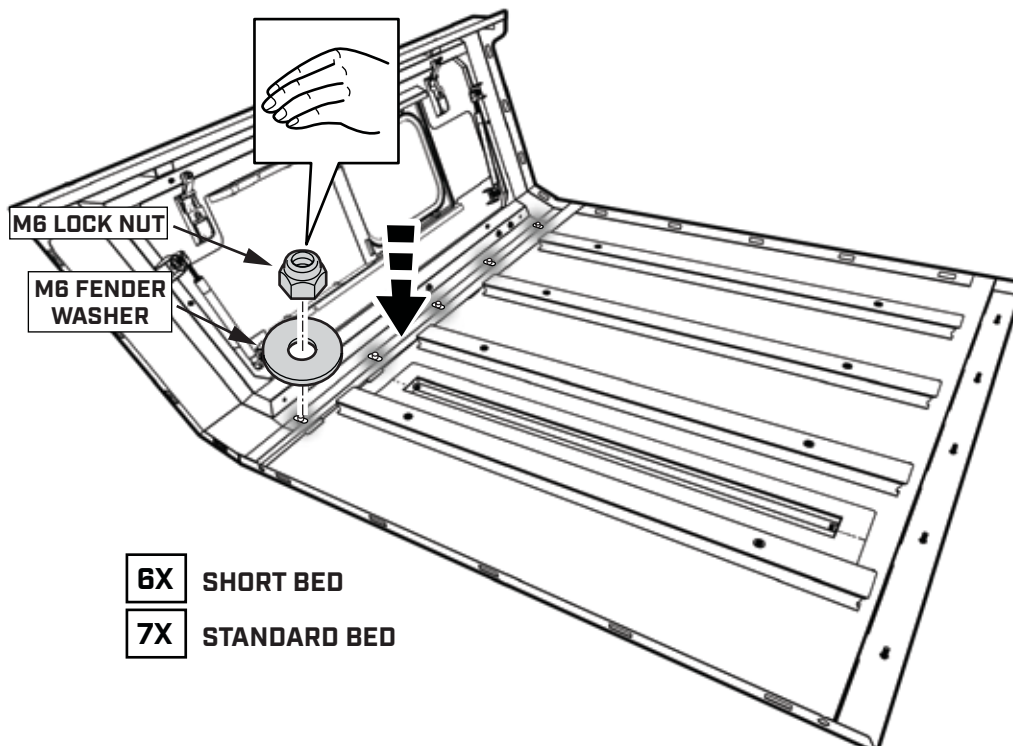
INSERT PANEL TABS INTO  
NARROW SLOTS JUST ABOVE  
FOAM PADDING ON ROOF PANEL.

TAP FIRMLY WITH PALM OF HAND  
UNTIL THERE IS A 2-3MM GAP.



## STEP 6

HAND TIGHTEN M6 LOCK NUT WITH  
M6 FENDER WASHER TO ALL ROOF STUDS.



I-SHEET-NA-TU2



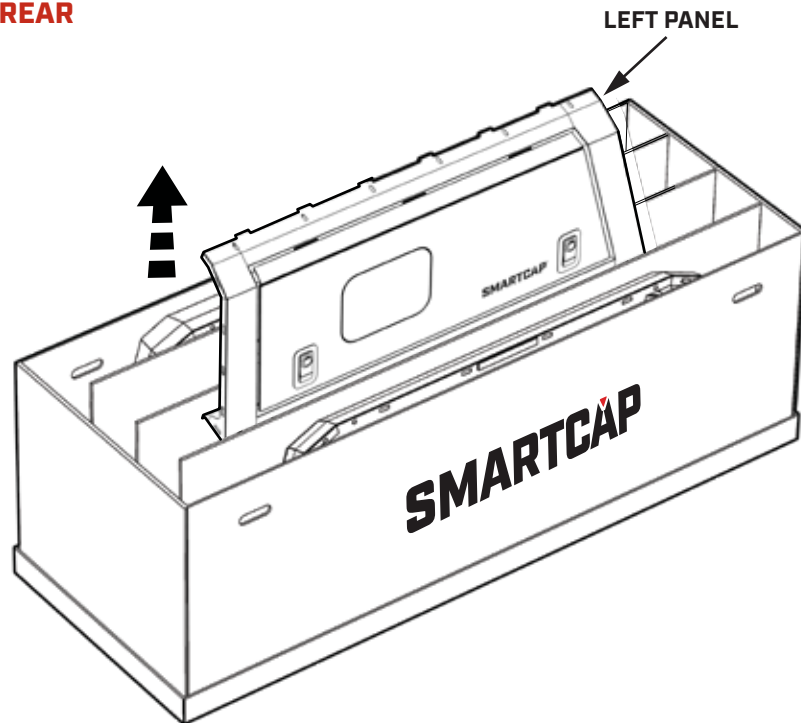
## STEP 7

LOCATE THE LEFT PANEL IN THE SMARTCAP PACKAGE AND BRING IT TO YOUR WORK AREA.

2 PERSON JOB



**SLANTED EDGE INDICATES REAR**



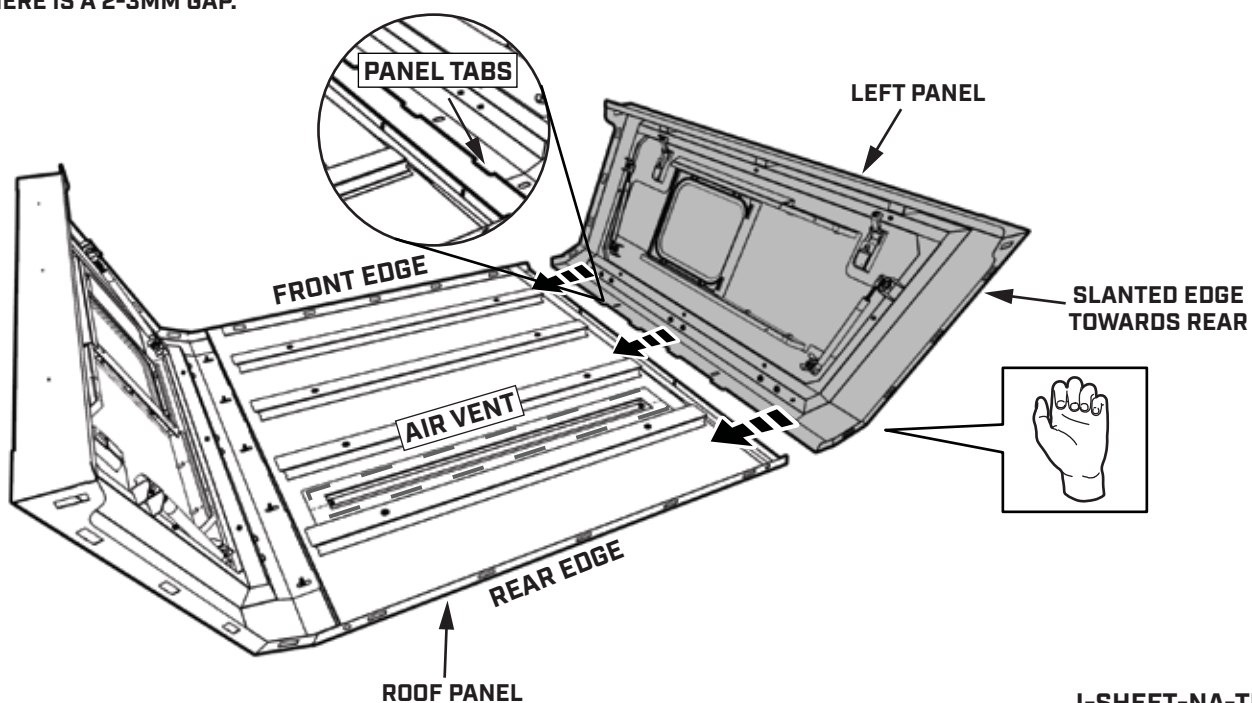
## STEP 8

INSERT PANEL TABS INTO NARROW SLOTS JUST ABOVE FOAM PADDING ON ROOF PANEL.

2 PERSON JOB



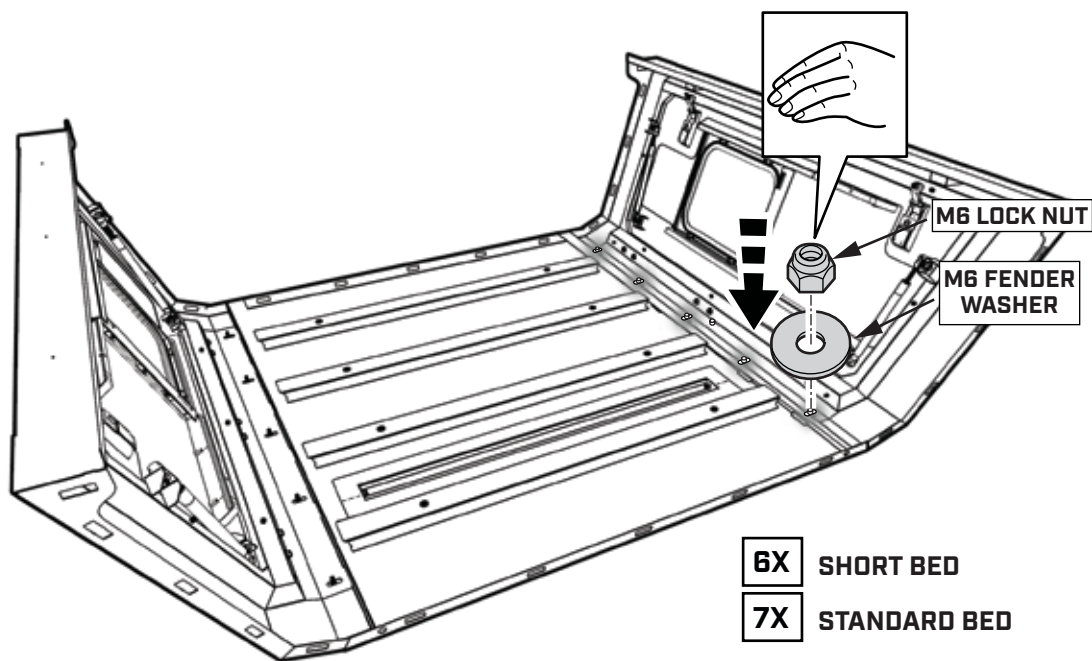
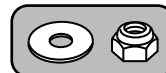
TAP FIRMLY WITH PALM OF HAND UNTIL THERE IS A 2-3MM GAP.



I-SHEET-NA-TU2

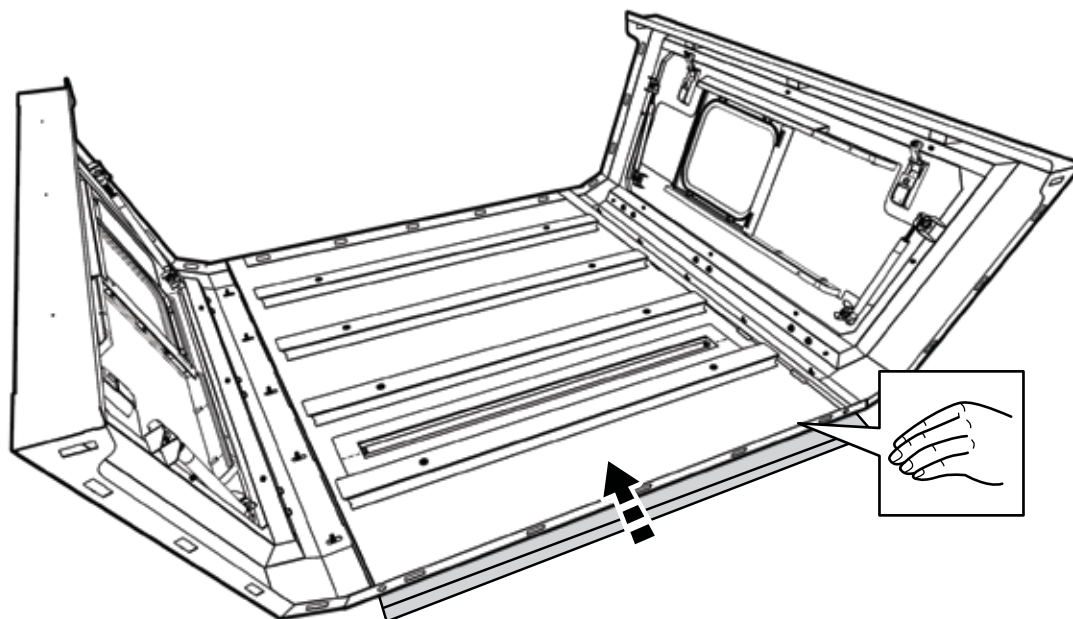
## STEP 9

HAND TIGHTEN M6 LOCK NUT WITH  
M6 FENDER WASHER TO ALL ROOF STUDS.



## STEP 10

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



I-SHEET-NA-TU2



## STEP 11

RETRIEVE THE NECESSARY HARDWARE FROM THE FITMENT KIT.

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

2 PERSON JOB



15X



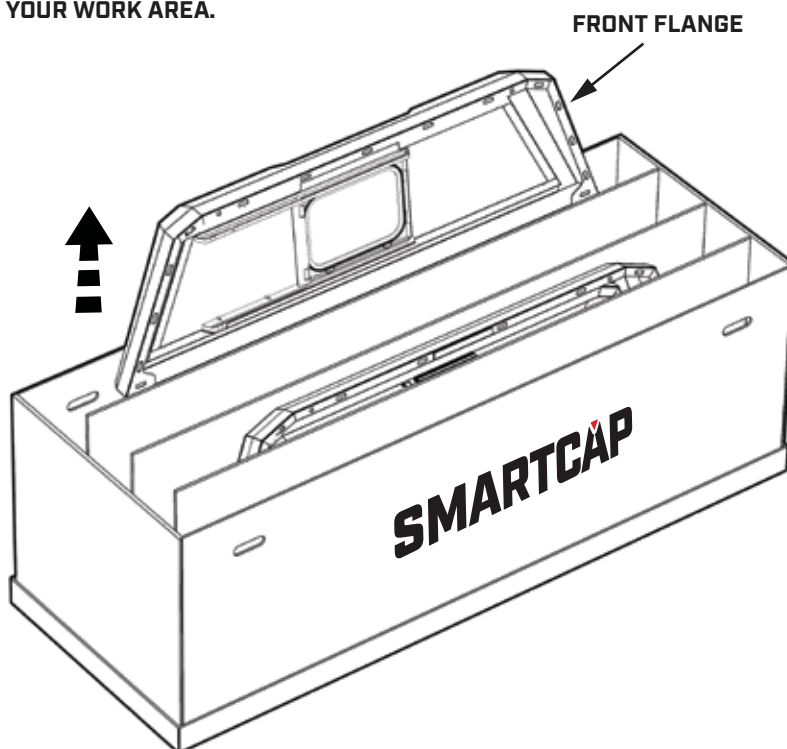
15X



15X



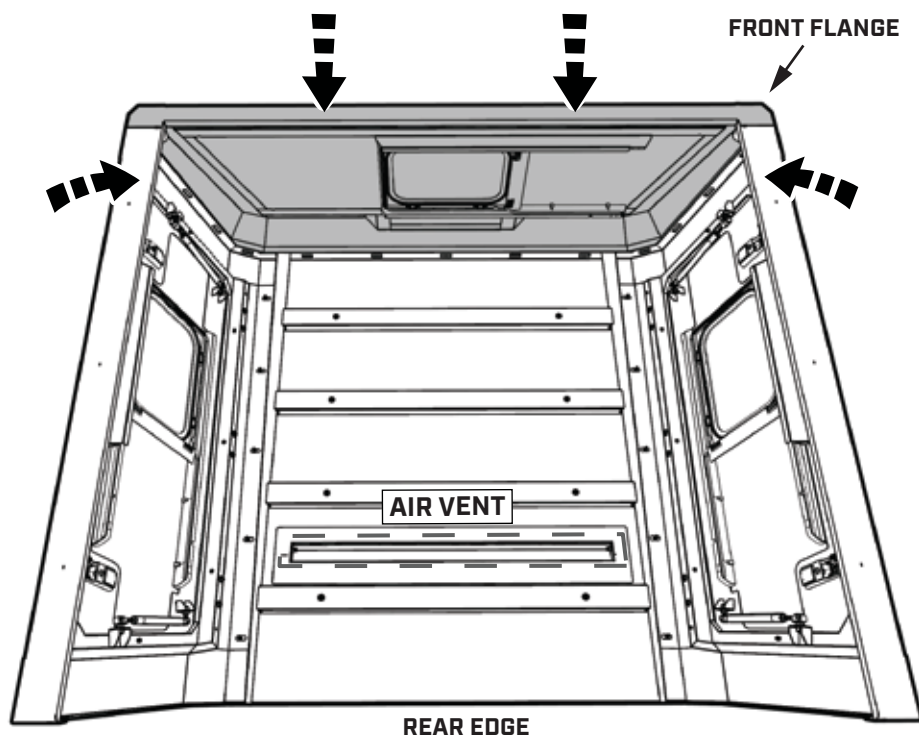
15X



## STEP 12

PLACE FRONT FLANGE AS SHOWN BELOW.

2 PERSON JOB



I-SHEET-NA-TU2

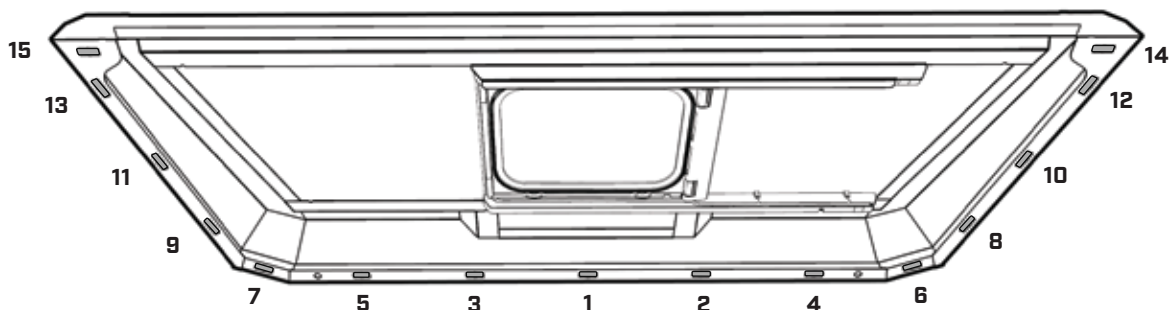
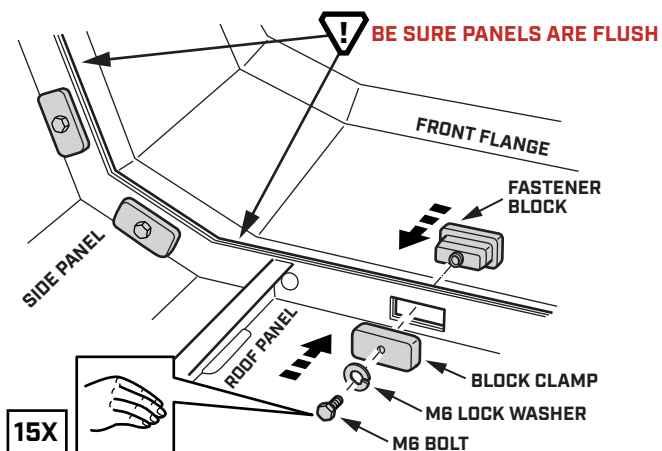
## STEP 13

INSTALL HARDWARE ALONG FRONT FLANGE WITH M6 BOLT ON INSIDE.

START WITH ASSEMBLING FASTENER BLOCKS 1-5.

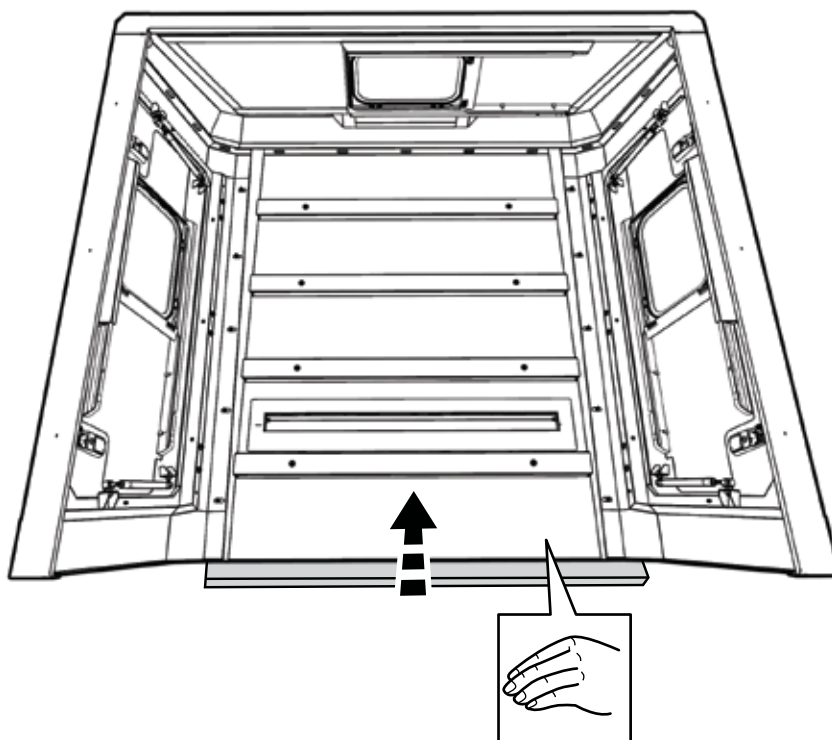
ADJUST LEFT AND RIGHT PANELS TO ALIGN FASTENER BLOCKS 6-15 FOR ASSEMBLY.

HAND TIGHTEN IN THE SEQUENCE SHOWN.



## STEP 14

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



I-SHEET-NA-TU2

## STEP 15

RETRIEVE THE NECESSARY HARDWARE FROM THE FITMENT KIT.

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

2 PERSON JOB



15X



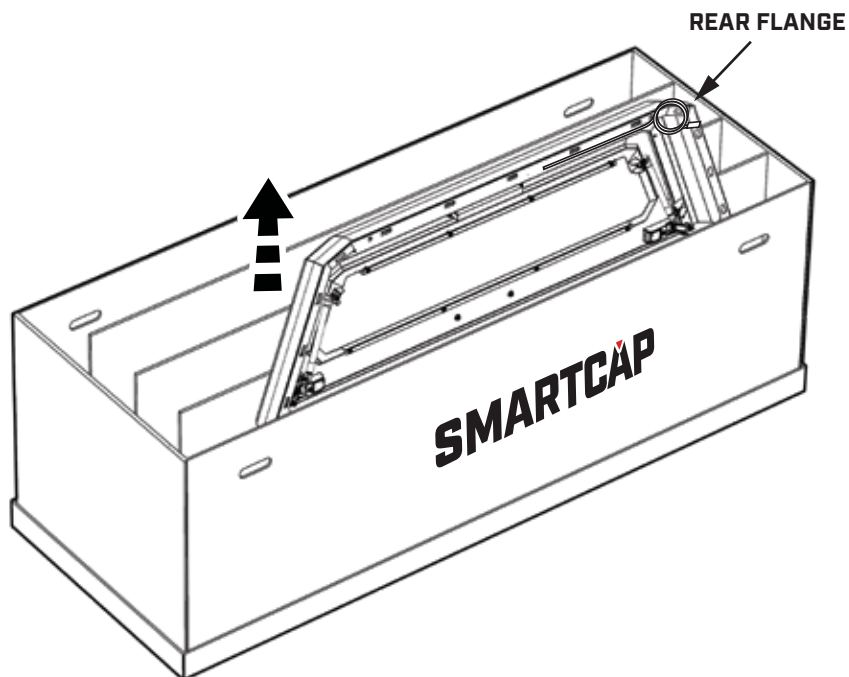
15X



15X



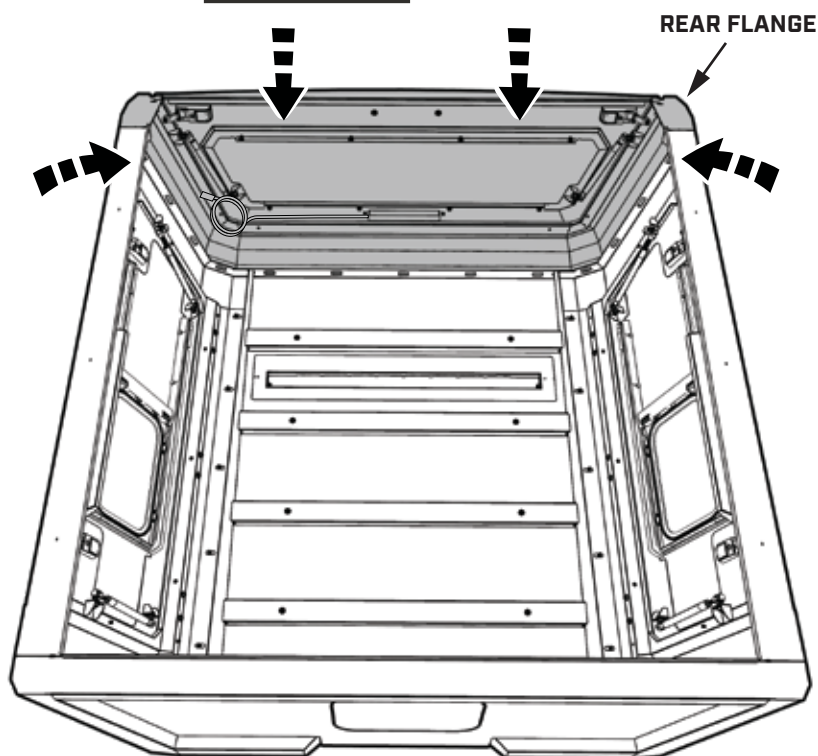
15X



## STEP 16

PLACE REAR FLANGE AS SHOWN BELOW.

2 PERSON JOB



I-SHEET-NA-TU2

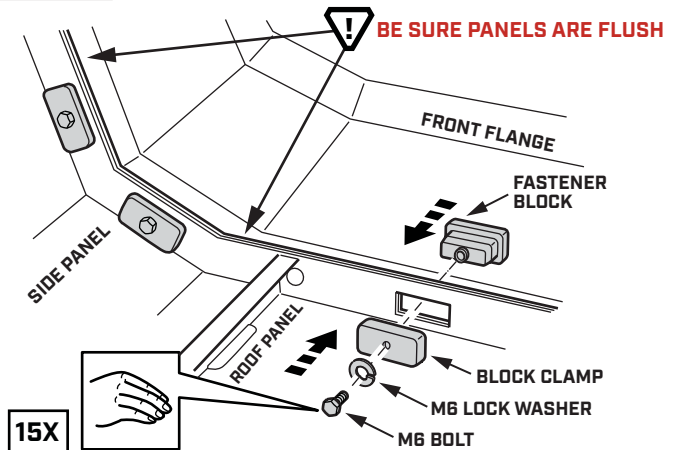
## STEP 17

INSTALL HARDWARE ALONG REAR FLANGE WITH 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.

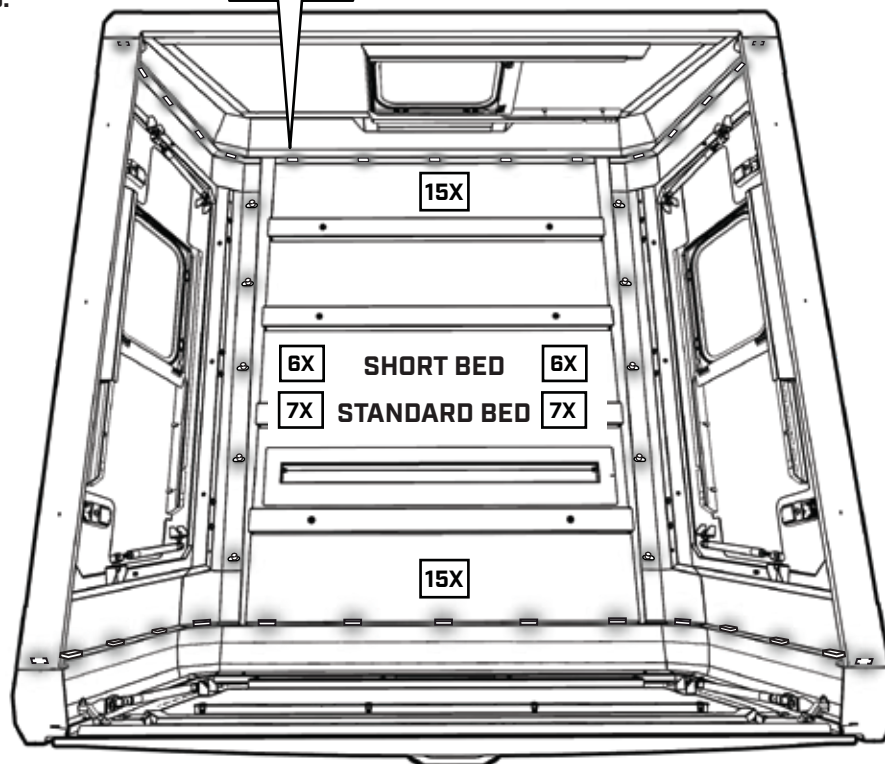


## STEP 18

TIGHTEN ALL HARDWARE WITH TORQUE WRENCH AND 10MM SOCKET TO 3.7 FT. LBS. [5 NEWTON METERS]



[3.7 ft. lbs]/[5 Nm]

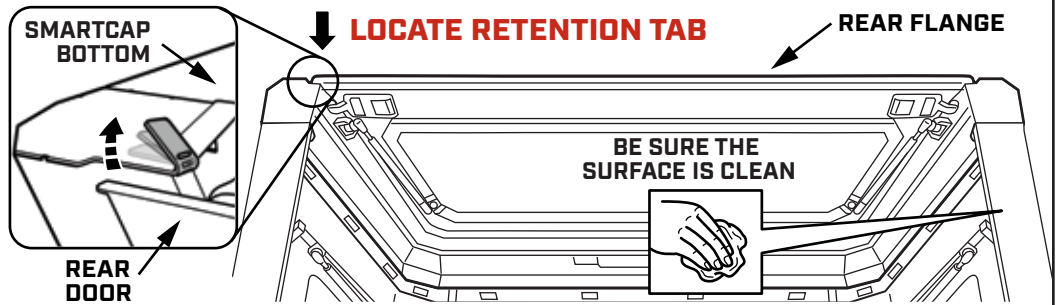


I-SHEET-NA-TU2

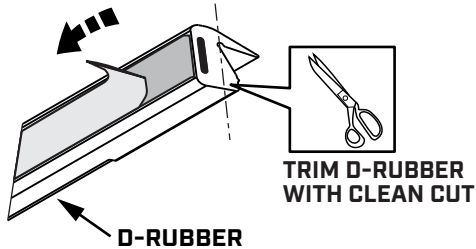
## STEP 19

**A** LOCATE THE D-RUBBER RETENTION TAB NEXT TO THE REAR DOOR GASKET.

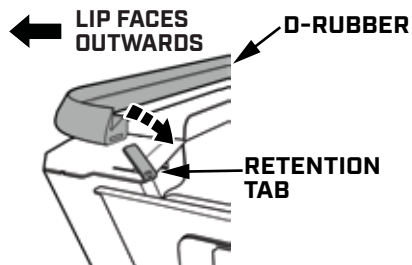
BEND THE TAB UPWARDS AT A 45 DEGREE ANGLE.



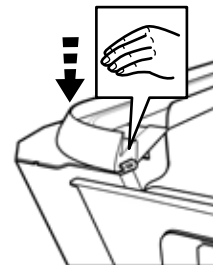
**B** PEEL AWAY A SMALL PORTION OF THE ADHESIVE BACKING FROM THE D-RUBBER.



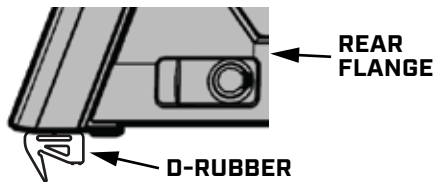
**C** INSERT THE TAB INTO THE D-RUBBER UNTIL THE D-RUBBER LIGHTLY BUTTS UP AGAINST REAR DOOR GASKET.



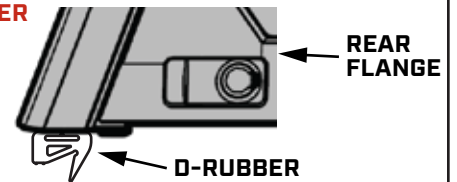
**D** FIRMLY PUSH THE TAB BACK DOWN TO SECURE THE D-RUBBER IN PLACE.



**CORRECT D-RUBBER ORIENTATION**



**INCORRECT D-RUBBER ORIENTATION**



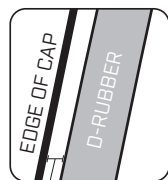
## STEP 20

PEEL AWAY ADHESIVE BACKING IN SHORT LENGTHS AS YOU WORK AROUND THE EDGES.

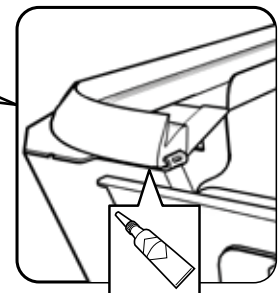
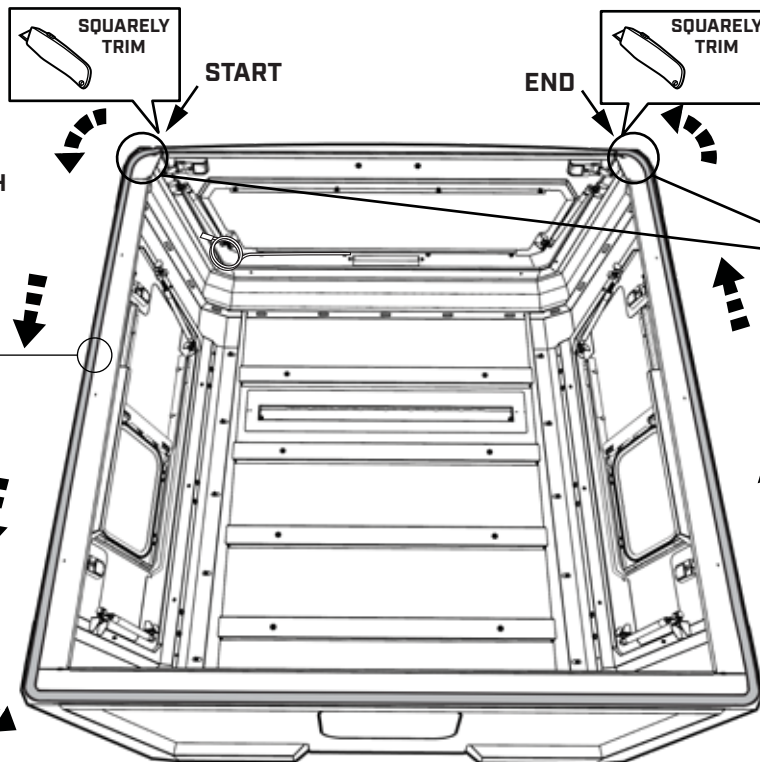
STAY WITHIN 1/8" FROM THE OUTER EDGES.

REMOVE EXCESS WITH A STRAIGHT CUT.

REINFORCE ENDS WITH SUPER GLUE.



1/8 INCH FROM EDGE

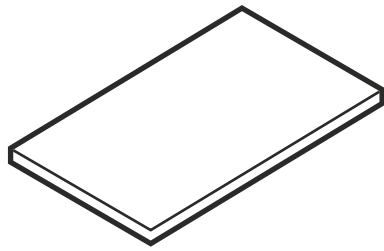


REINFORCE THE FIRST AND LAST 2" OF EACH END WITH SUPER GLUE

I-SHEET-NA-TU2

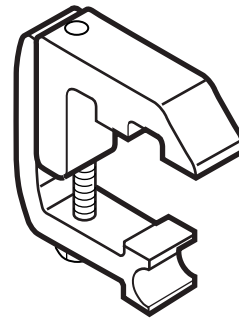
## INSTALLATION HARDWARE

### THIN RUBBER PAD



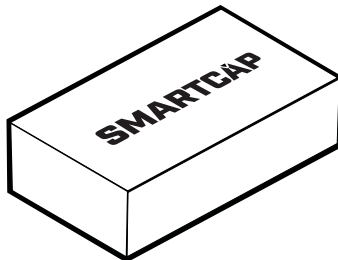
6X

### MOUNTING CLAMP



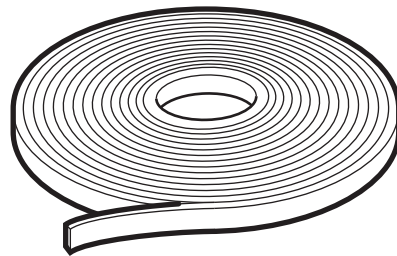
6X

### THICK RUBBER PAD



8X

### FOAM SEAL TAPE



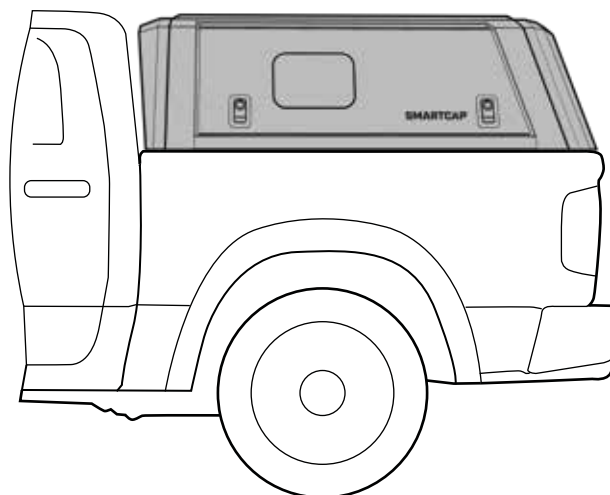
1X

## 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.



I-SHEET-NA-TU2

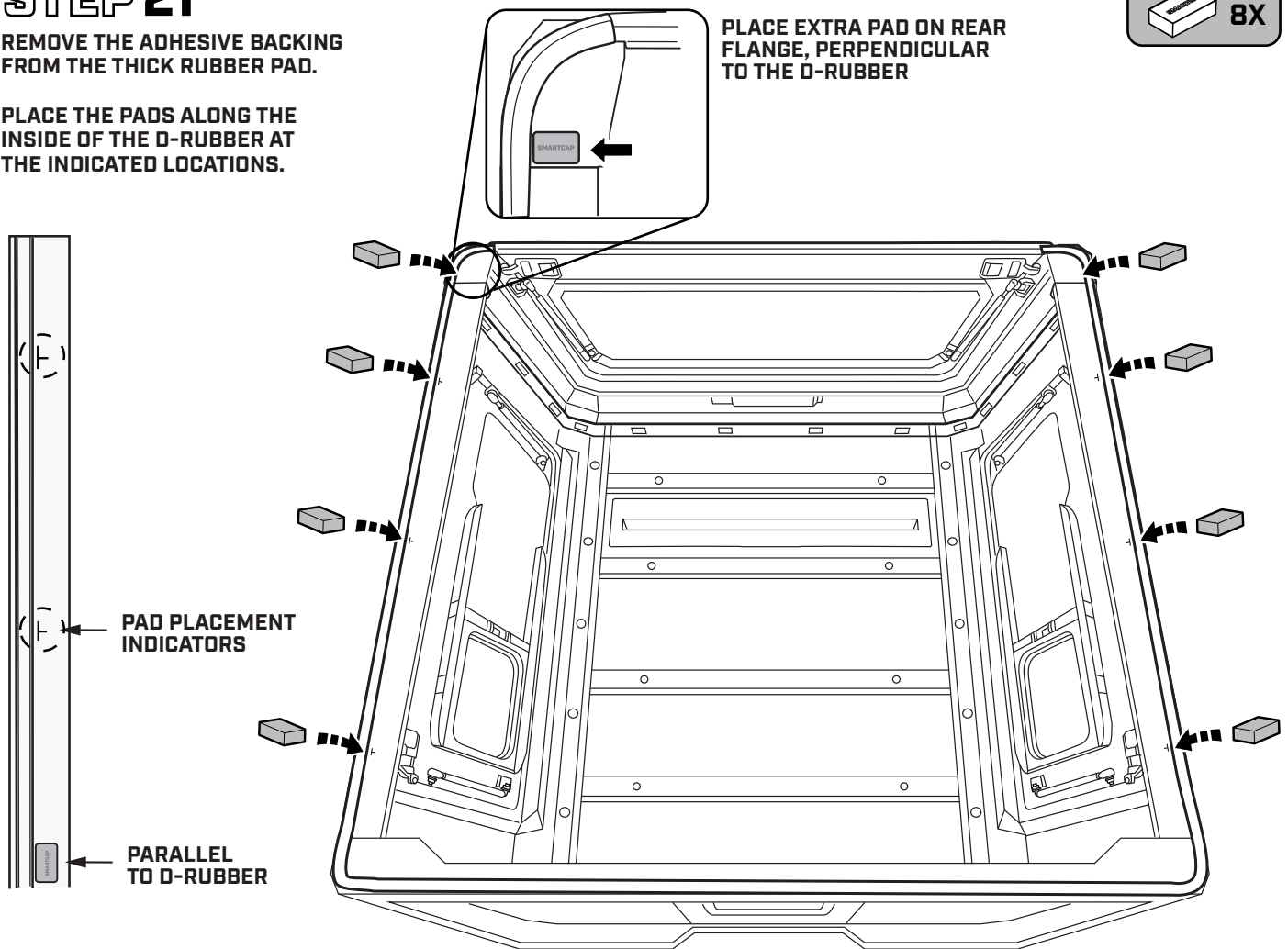


## STEP 21

REMOVE THE ADHESIVE BACKING FROM THE THICK RUBBER PAD.


PLACE THE PADS ALONG THE INSIDE OF THE D-RUBBER AT THE INDICATED LOCATIONS.

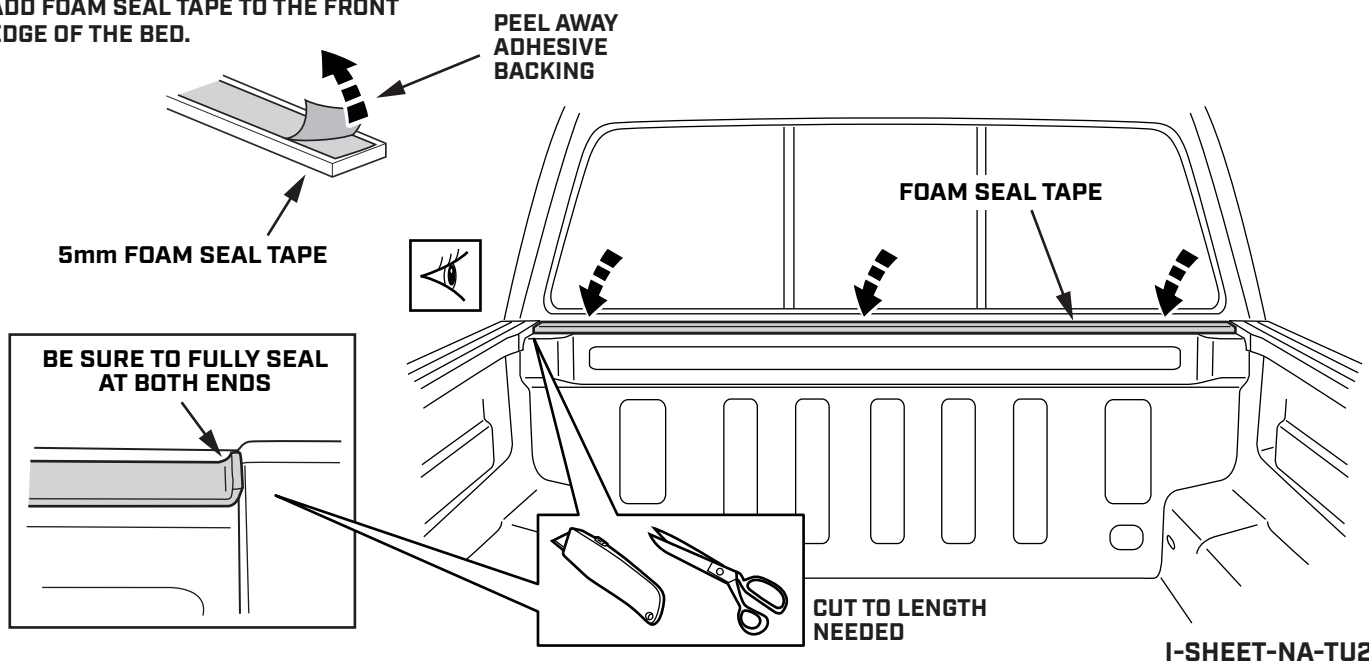
 8X



## STEP 22

INSPECT THE TRUCK BED. IF FRONT EDGE IS LOWER THAN THE SIDES, ADD FOAM SEAL TAPE TO THE FRONT EDGE OF THE BED.

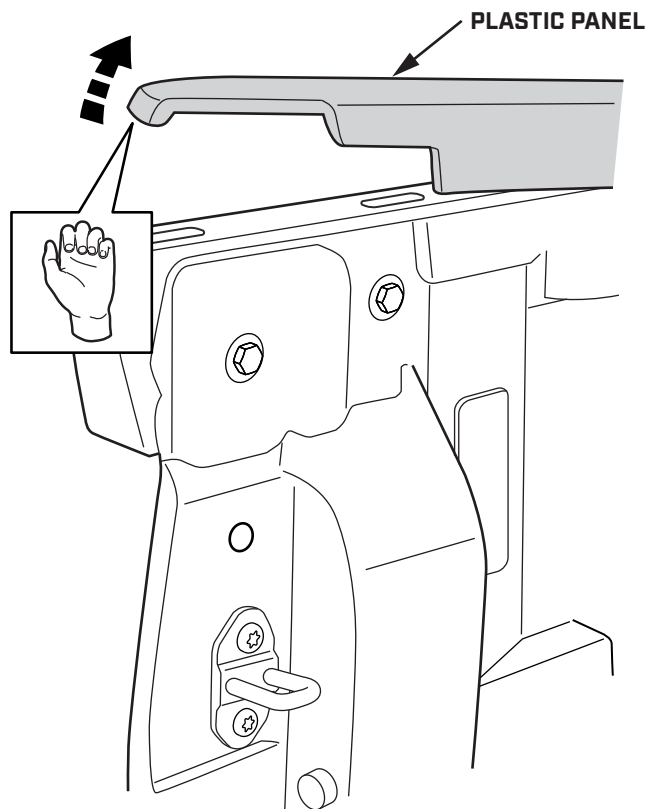
 1X



I-SHEET-NA-TU2

## STEP 23

CAREFULLY PULL UP ON THE PLASTIC PANEL OF THE TRUCK BED RAILING, EXPOSING THE SHEET METAL.



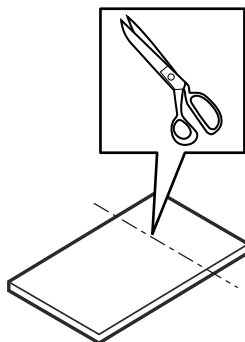
## STEP 24

RETRIEVE THE THIN RUBBER PADS FROM THE FITMENT KIT.

USING A PAIR OF SCISSORS, TRIM A 1/2" STRIP FROM EACH OF THE 6 THIN RUBBER PADS.

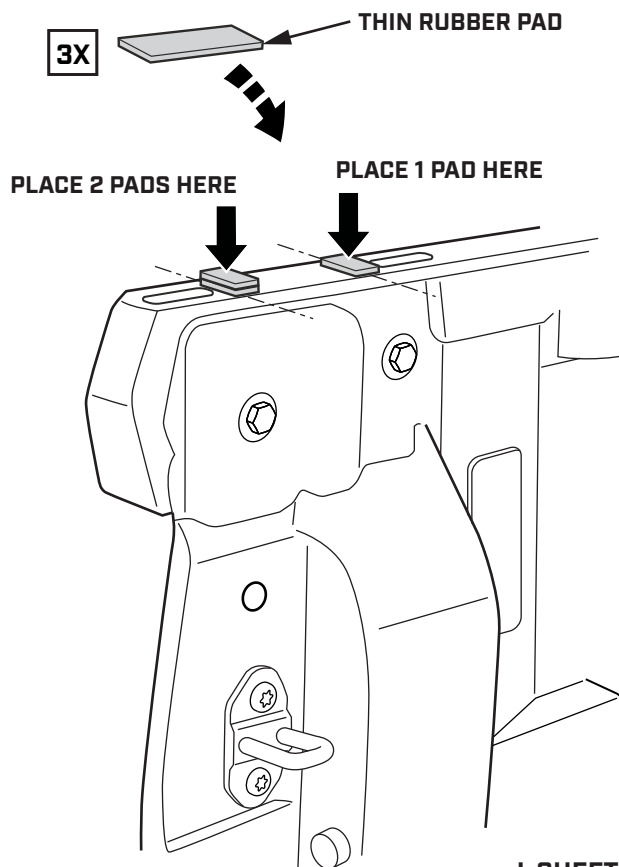
PLACE THE PADS ON THE SHEET METAL OF THE TRUCK BED RAILING AS SHOWN.

**REPEAT ON OPPOSITE SIDE**



TRIM A 1/2" INCH STRIP FROM EACH THIN RUBBER PAD.

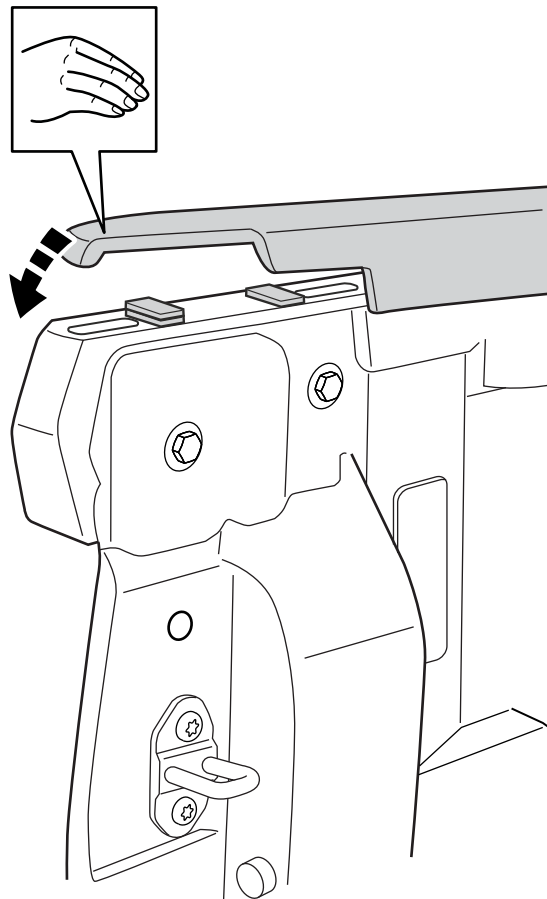
6X



I-SHEET-NA-TU2

## STEP 25

FIRMLY SECURE THE PLASTIC PANELS OF THE TRUCK BED RAILING BACK IN PLACE.

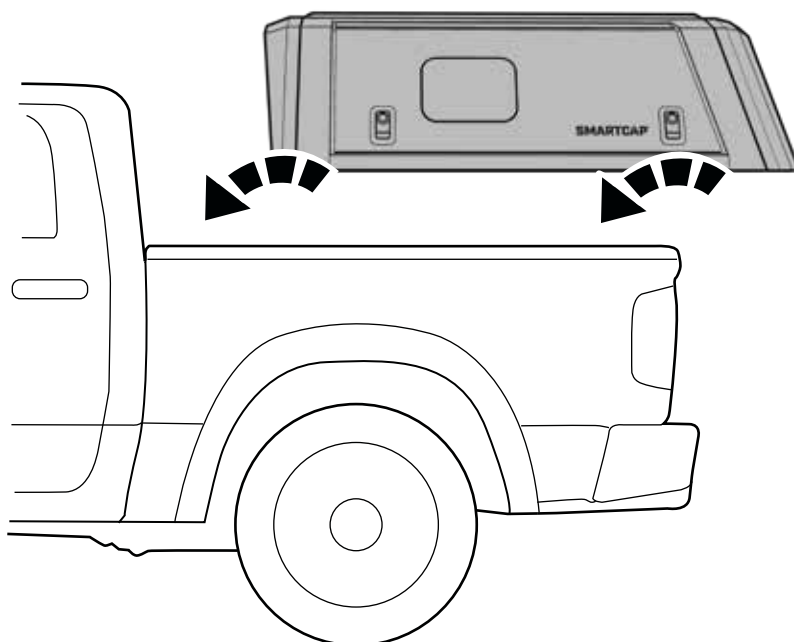


## STEP 26

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.

**4 PERSON JOB**

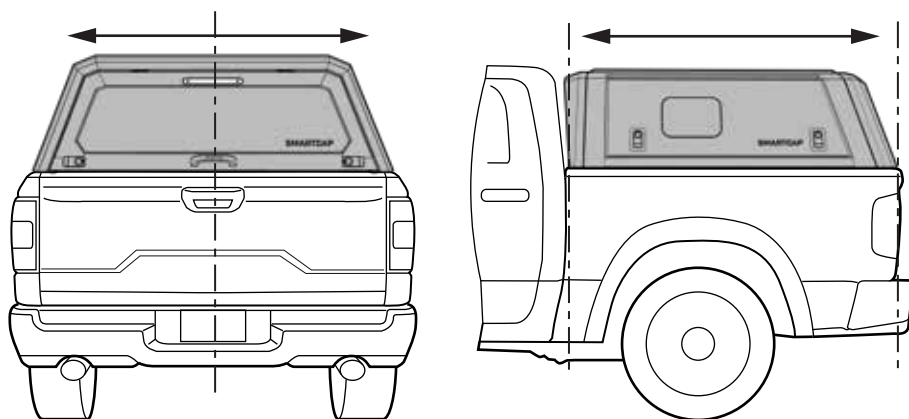


I-SHEET-NA-TU2

## STEP 27

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.

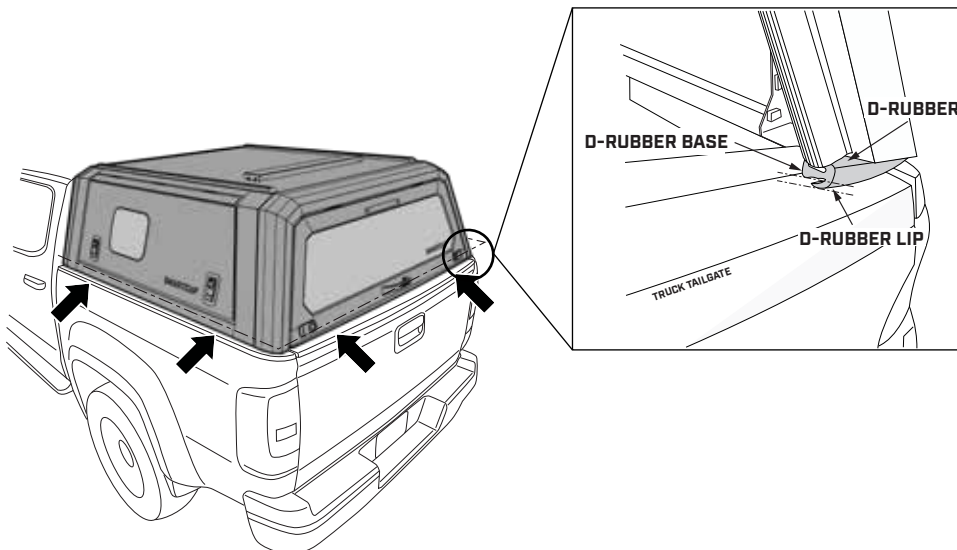


## STEP 28

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.

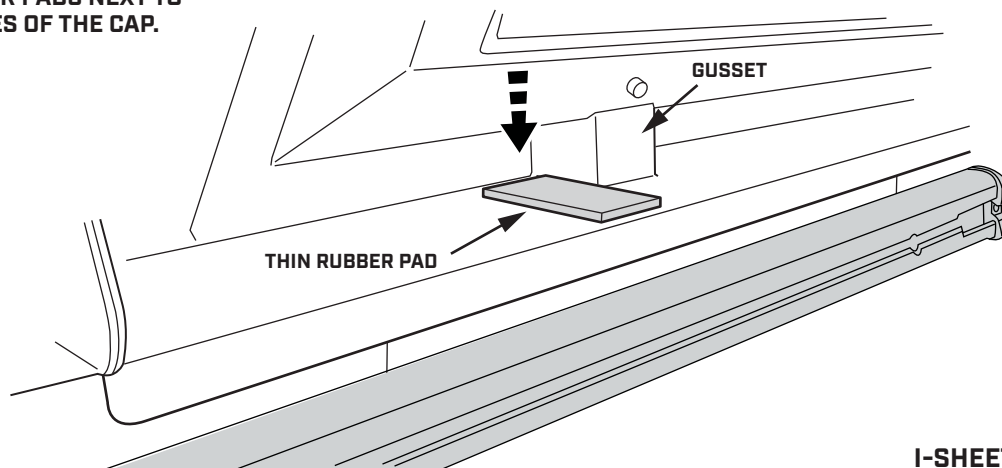
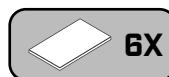
*\*YOU MAY NOTICE THAT THE SEAL ON THE SLIDING PORTAL WINDOW MIGHT APPEAR WRINKLED. THIS IS DUE TO THE ANTI-SLIP COATING AND IS NOT A CAUSE FOR CONCERN.*



## STEP 29

WITH THE EXCEPTION OF THE REAR CORNERS, PLACE THE THIN RUBBER PADS NEXT TO GUSSETS ON BOTH SIDES OF THE CAP.

**3 PADS PER SIDE**



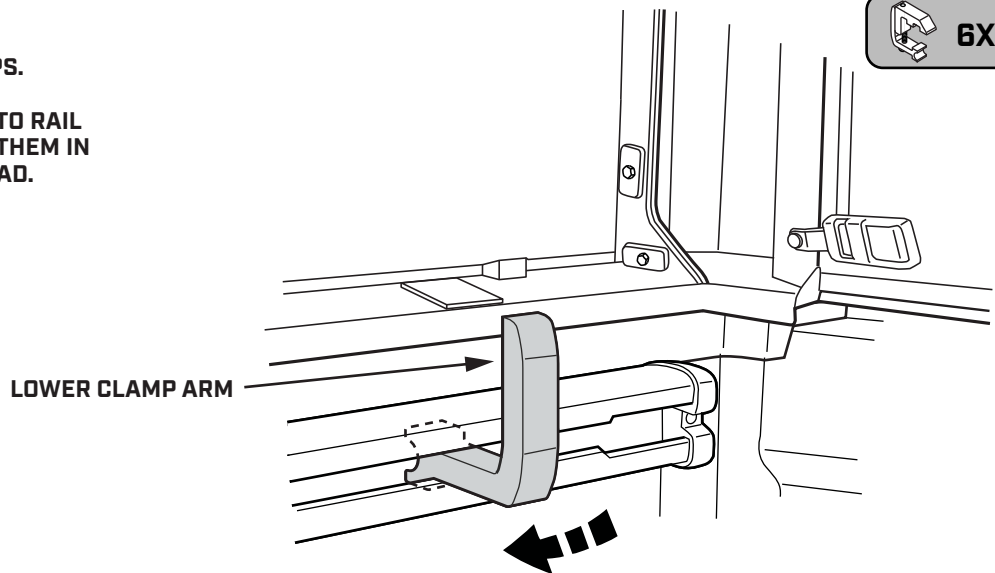
I-SHEET-NA-TU2

## STEP 30

DISASSEMBLE MOUNTING CLAMPS.

INSTALL LOWER CLAMP ARMS INTO RAIL  
INSIDE THE TRUCK BED AND SET THEM IN  
FRONT OF EVERY THIN RUBBER PAD.

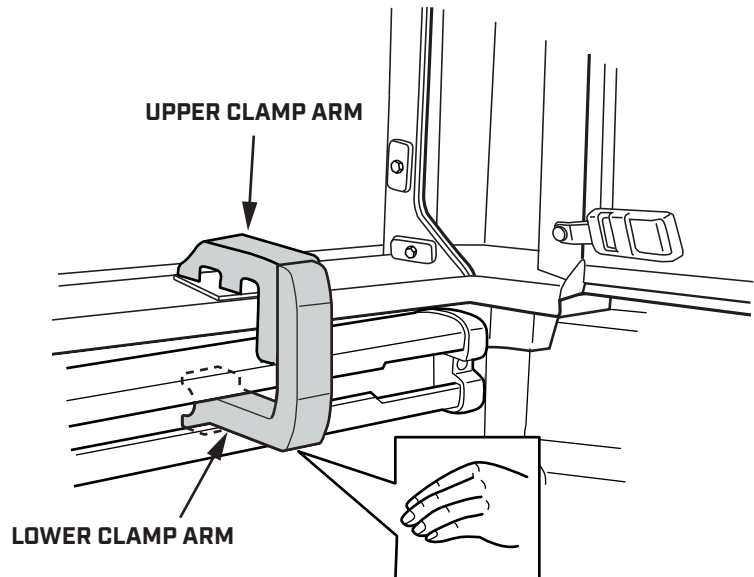
**3 CLAMPS PER SIDE**



## STEP 31

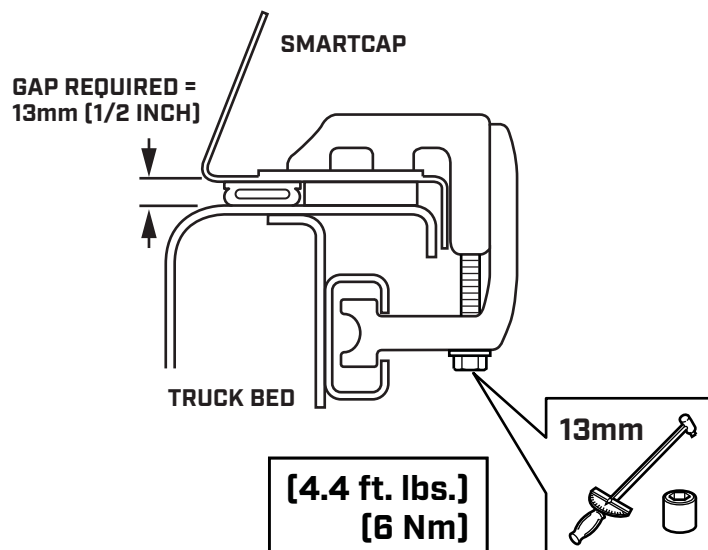
REASSEMBLE UPPER AND LOWER  
CLAMP ARMS.

HAND TIGHTEN ALL MOUNTING CLAMPS  
ON TOP OF THIN RUBBER PADS.



## STEP 32

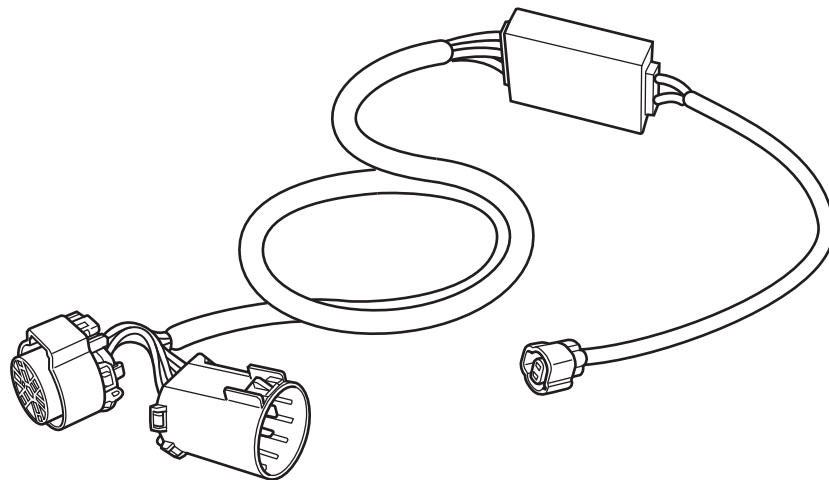
TIGHTEN MOUNTING CLAMPS  
USING TORQUE WRENCH AND  
13MM SOCKET TO 4.4 FT. LBS.  
[6 NEWTON METERS]



I-SHEET-NA-TU2

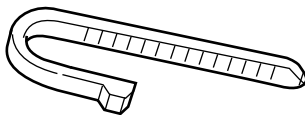
## THIRD BRAKE LIGHT HARDWARE

### T-HARNESS



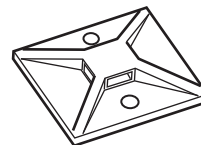
1X

### CABLE TIE



8X

### CABLE TIE BASE

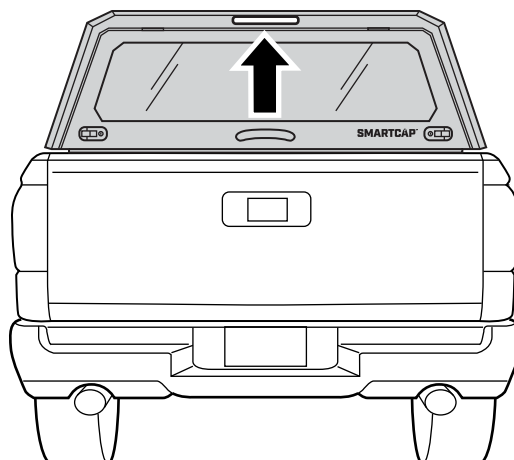


2X



### 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.



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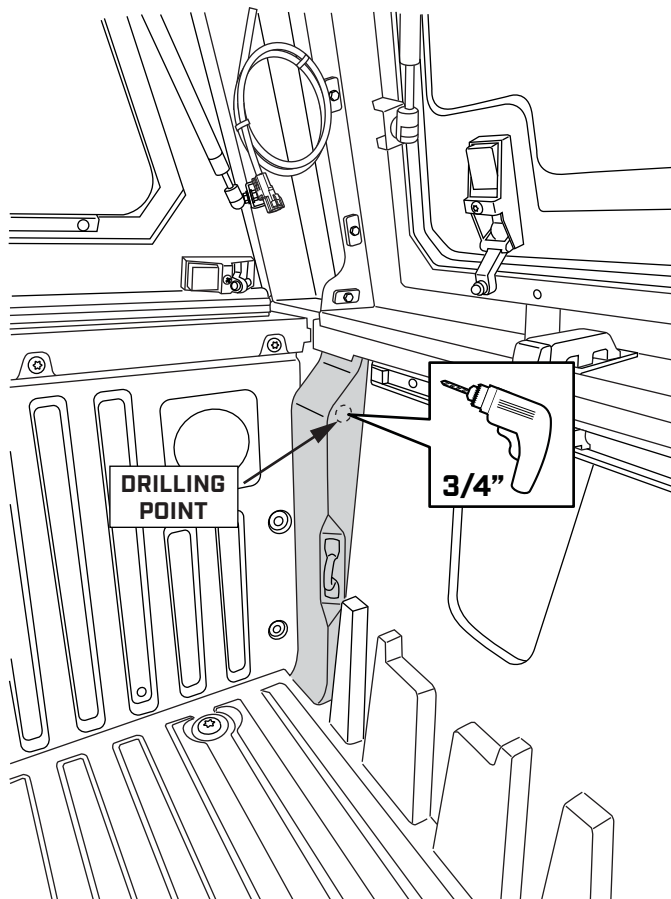
## STEP 33

LOCATE THE DRILLING POINT IN THE REAR CORNER OF THE TRUCK BED. FIND THE AREA MARKED BY A DASHED CIRCLE IN THE PROVIDED ILLUSTRATION. THIS INDICATES WHERE YOU NEED TO DRILL A 3/4" HOLE.

DRILL A HOLE AT THE MARKED LOCATION USING A 3/4 INCH DRILL BIT. DRILL STEADILY TO AVOID ANY DAMAGE TO THE TRUCK BED.

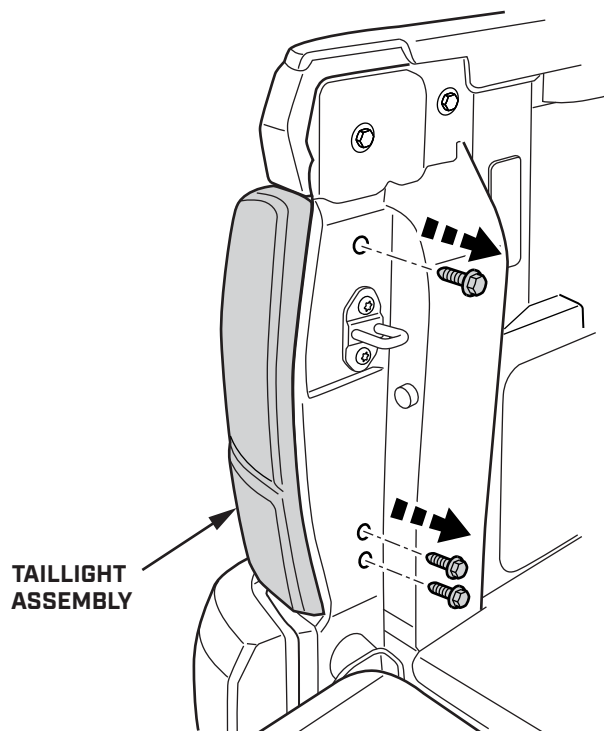
IF NECESSARY, REMOVE ANY BURRS OR SHARP EDGES WITH A METAL FILE.

**IT IS RECOMMENDED THAT YOU PRE-DRILL THE HOLE USING A 5/8 INCH DRILL BIT FIRST**



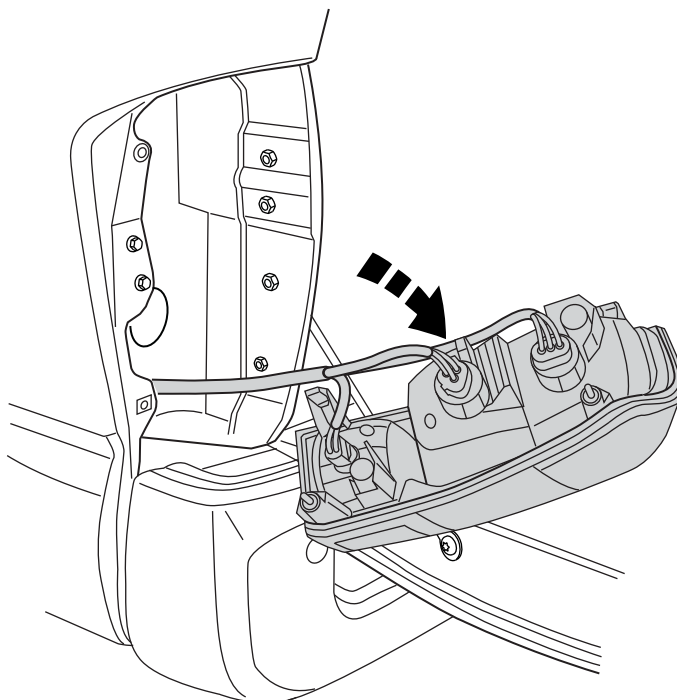
## STEP 34

REMOVE THE BOLTS HOLDING THE DRIVER SIDE TAILLIGHT ASSEMBLY.



## STEP 35

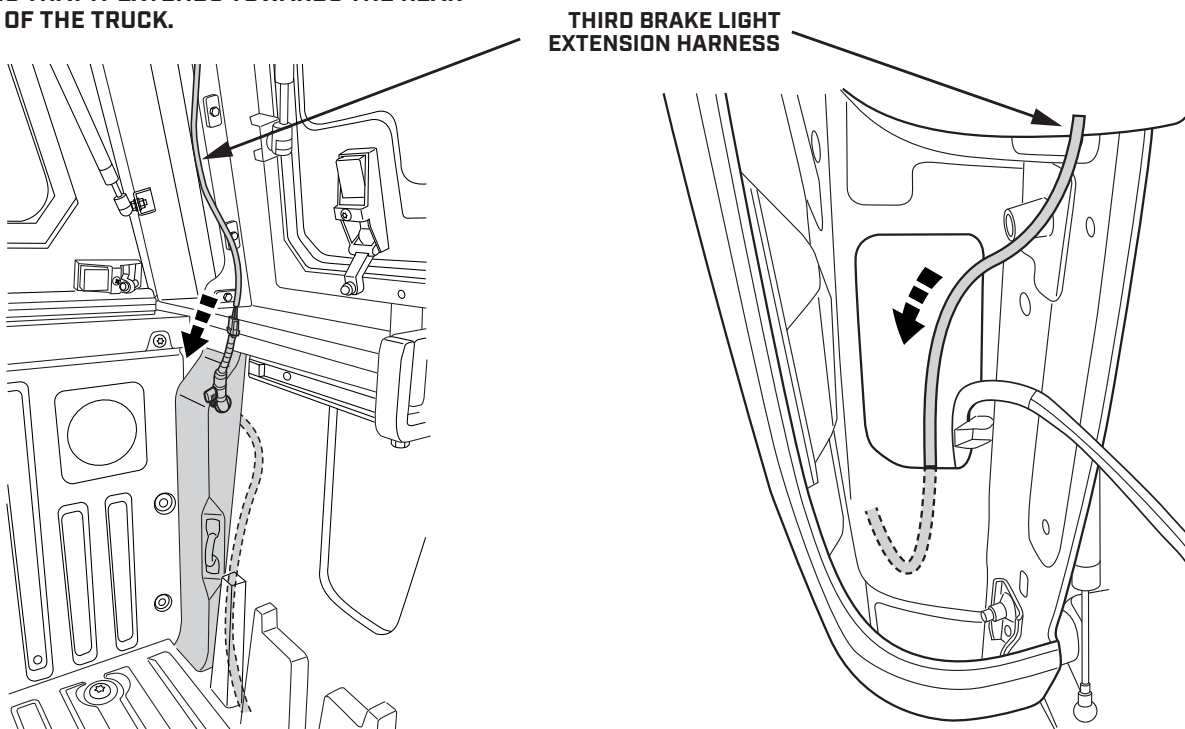
PLACE THE TAILLIGHT ASSEMBLY CAREFULLY ON THE TAILGATE. DO NOT UNPLUG ANY CONNECTORS.



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## STEP 36

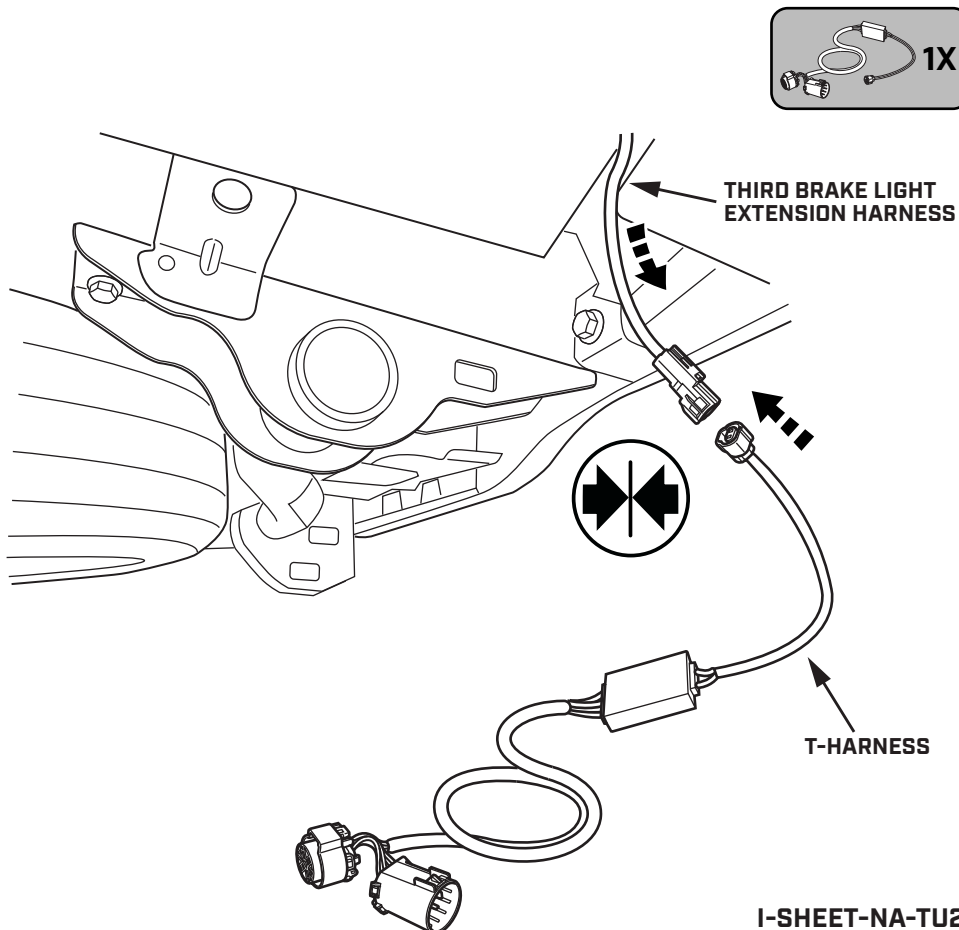
ROUTE THE THIRD BRAKE LIGHT EXTENSION HARNESS FROM THE INSIDE OF THE CAP AND THROUGH THE 3/4" DRILLED HOLE. CAREFULLY FEED THE HARNESS PAST THE TAILLIGHT CAVITY, ENSURING THAT IT EXTENDS TOWARDS THE REAR BUMPER OF THE TRUCK.



## STEP 37

RETRIEVE THE T-HARNESS FROM YOUR FITMENT KIT.

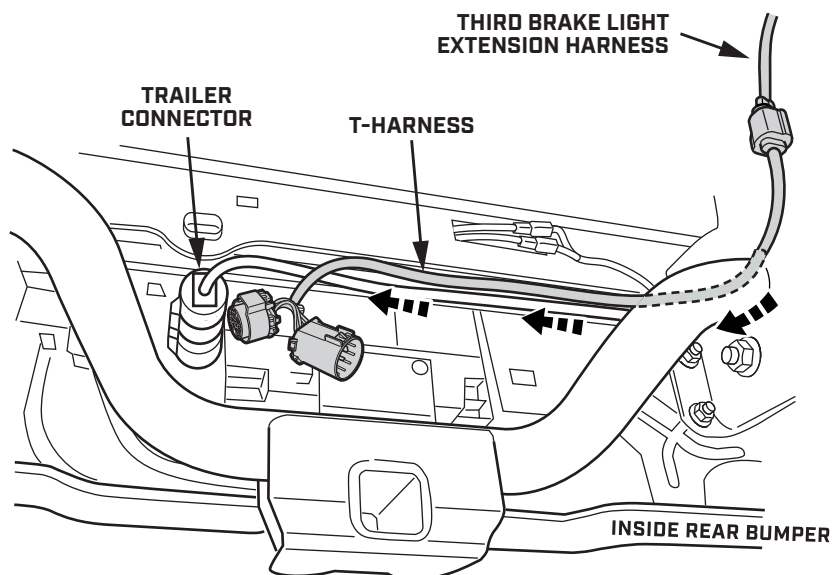
CONNECT THE 2-PIN FEMALE PLUG OF THE T-HARNESS INTO THE MALE 2-PIN PLUG OF THE THIRD BRAKE LIGHT EXTENSION HARNESS.



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## STEP 38

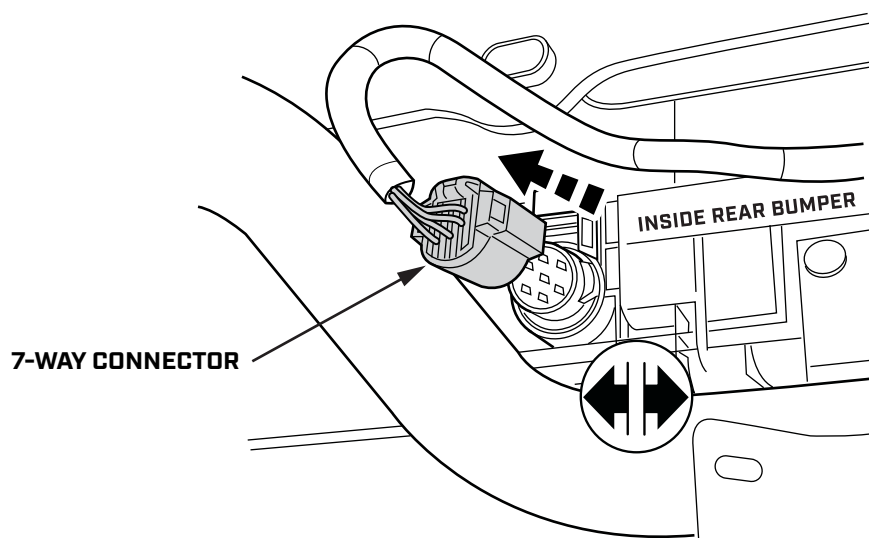
FROM UNDERNEATH THE VEHICLE, ROUTE THE T-HARNESS ABOVE THE FRAME, ALONG THE INSIDE OF THE REAR BUMPER AND TOWARD THE TRAILER CONNECTOR.



## STEP 39

LOCATE THE 7-WAY TRAILER CONNECTOR AT THE HITCH OR INSIDE THE BUMPER.

DISCONNECT THE PLUG FROM THE BACK OF THE 7-WAY CONNECTOR.

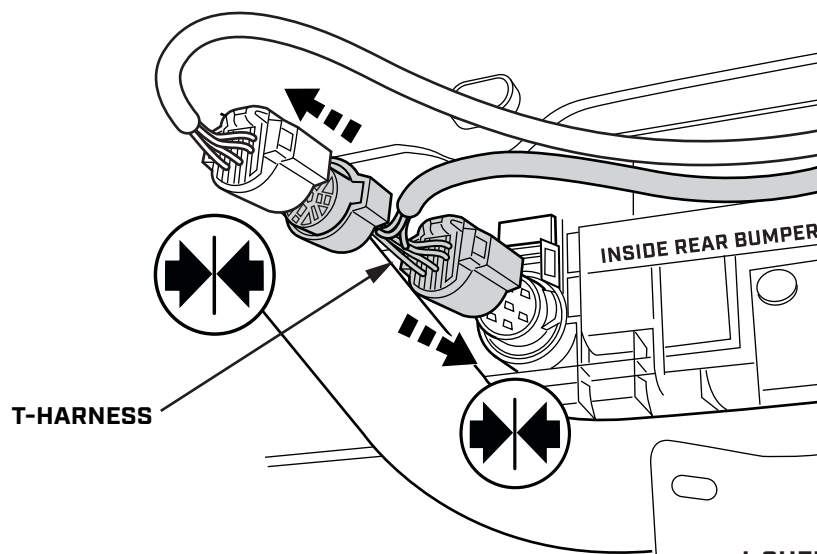


## STEP 40

PLUG THE NEW T-HARNESS INTO THE BACK OF THE 7-WAY CONNECTOR.

CONNECT THE ORIGINAL PLUG INTO THE FEMALE SIDE OF THE T-HARNESS.

BE SURE PLUGS ARE FULLY INSERTED AND LOCKING TABS ARE IN PLACE.

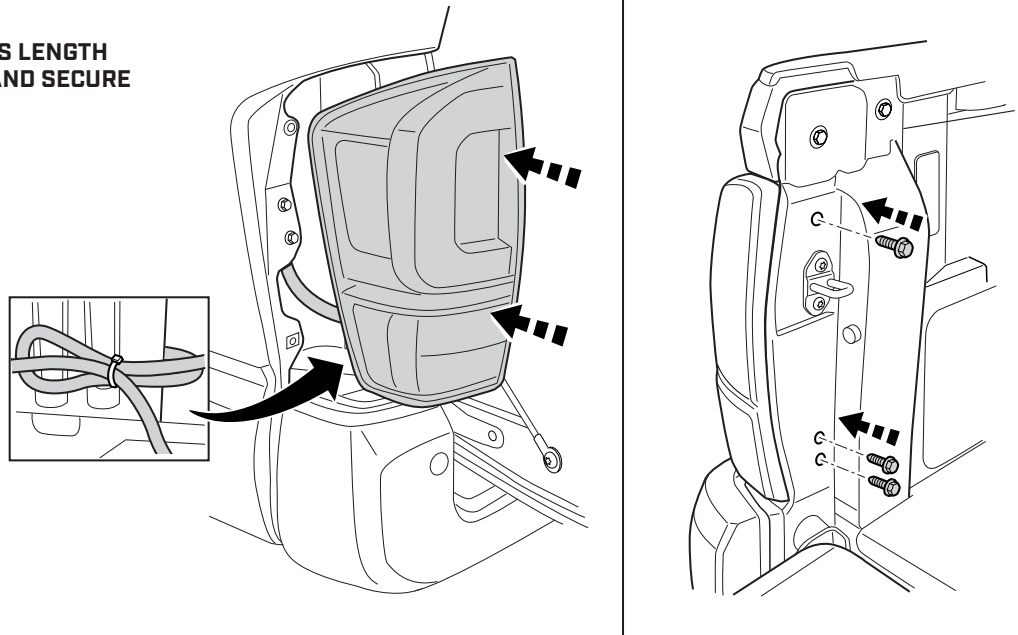


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## STEP 41

BUNDLE EXTRA T-HARNESS LENGTH IN THE TAILLIGHT CAVITY AND SECURE WITH CABLE TIES.

REINSTALL THE TAILLIGHT ASSEMBLY.



## STEP 42



### 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.
- ▼ YOUR CAP INSTALLATION IS COMPLETE. YOU CAN FIND SMARTCAP CONTACT INFORMATION ON PAGE 39.

**WARNING: SOME VEHICLES MAY SHOW A "DISCONNECTED TRAILER" ERROR. IF THIS OCCURS AND YOUR TRUCK IS EQUIPPED WITH VEHICLE TOWING SOFTWARE, NAVIGATE THE CONTROLS TO MANUALLY ENABLE POWER TO THE 7-WAY CONNECTOR. THIS CAN APPEAR AS "ENABLE AUXILIARY" OR "ENABLE TRAILER." IF CHMSL DOES NOT WORK, SHUT OFF THE VEHICLE. WAIT 10 SECONDS AND RESTART. WAIT AN ADDITIONAL 10 SECONDS FOR THE VEHICLE TO DETECT CHMSL.**

**IMPORTANT: WHEN ATTACHING A TRAILER, ALWAYS TEST THE TRAILER LIGHT FUNCTIONALITY WHILE USING THIS SYSTEM.**



# SMARTCAP<sup>®</sup>

THANKS FOR YOUR PURCHASE.

PLEASE LET US KNOW IF YOU HAVE ANY QUESTIONS.

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