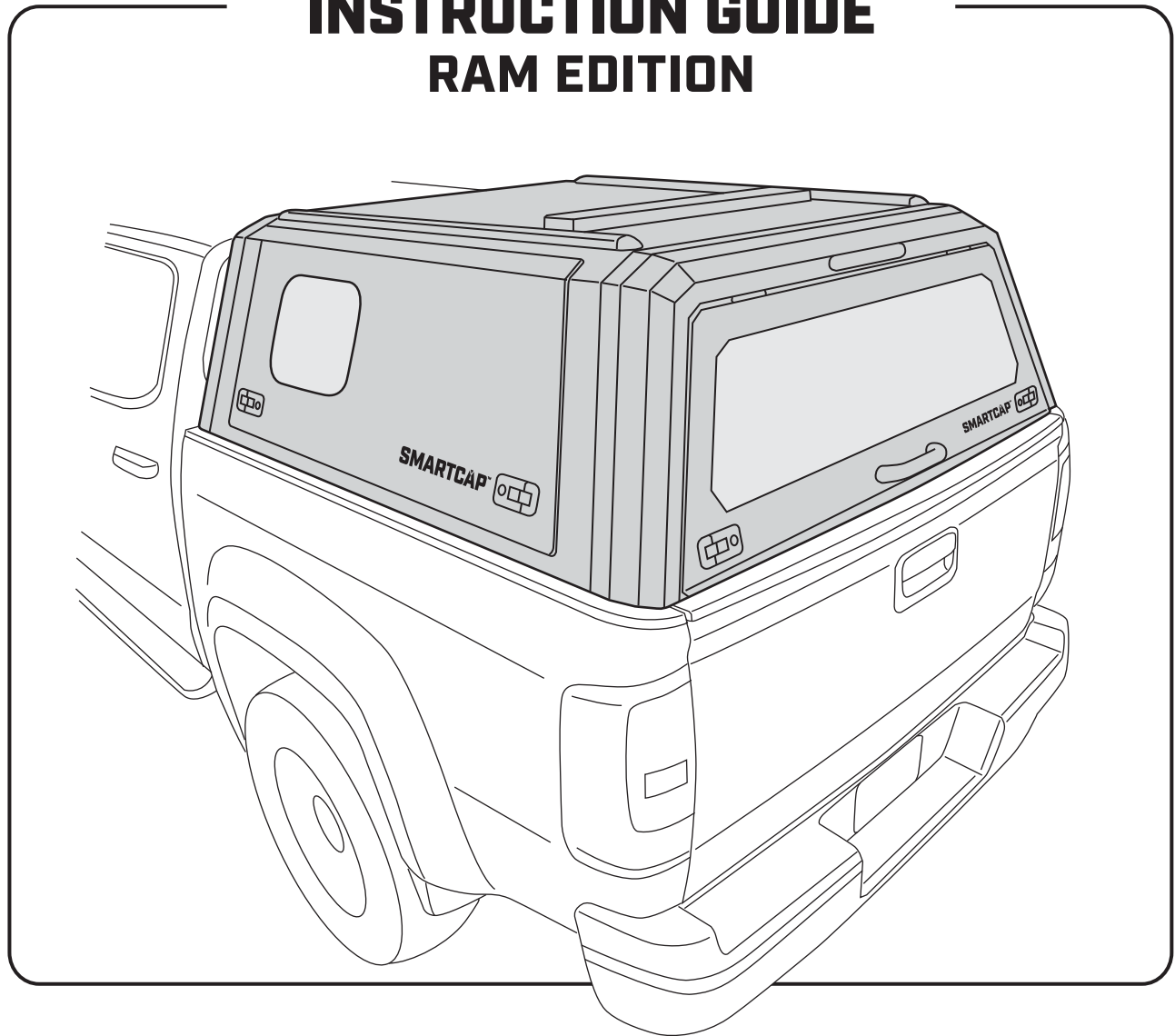


SMARTCAP®

INSTRUCTION GUIDE RAM EDITION



- ▼ **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.**

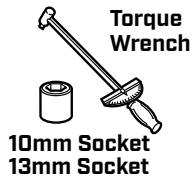
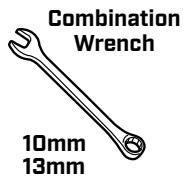
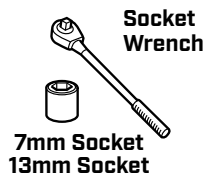
SMARTCAP.COM

SUPPORT.SA@SMARTCAP.COM - REST OF WORLD

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



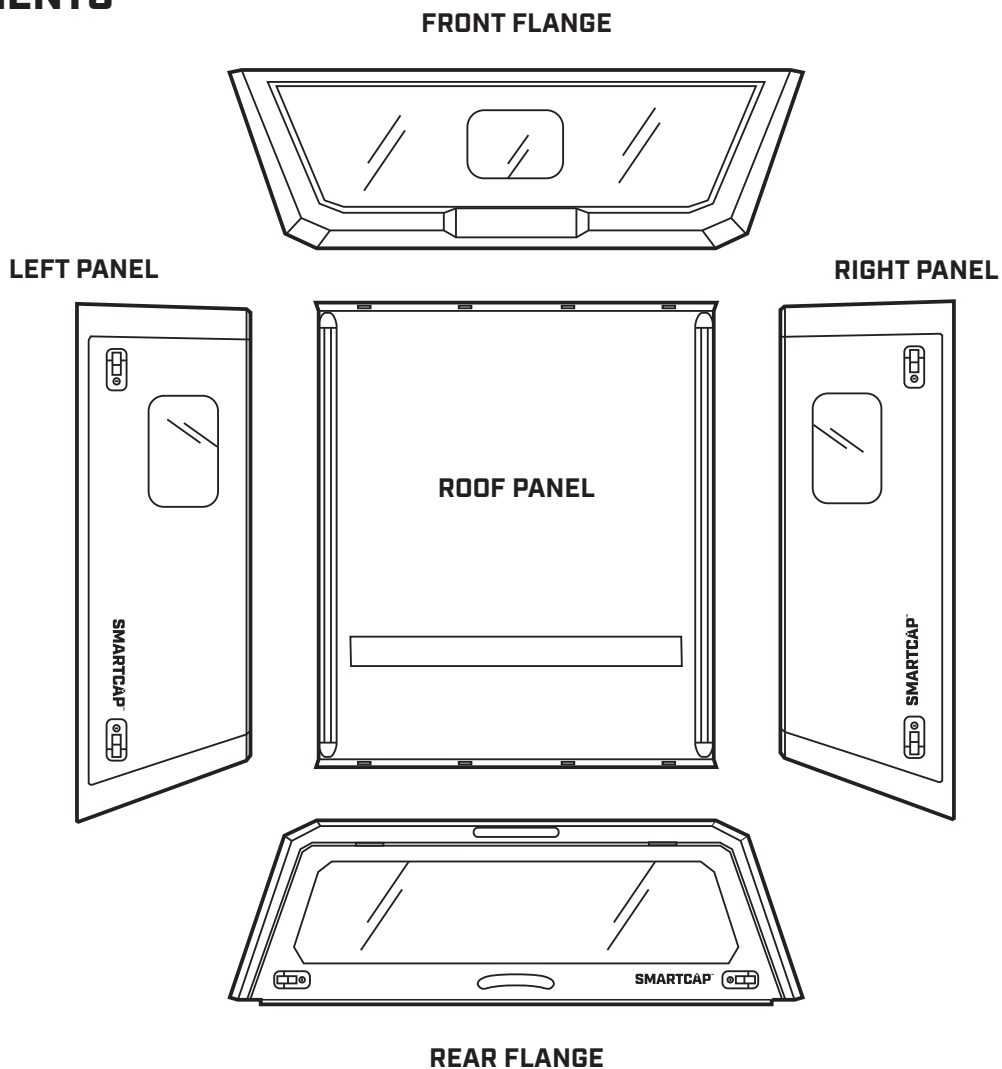
TOOLS REQUIRED



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

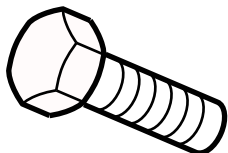


I-SHEET-NA-RAM-1

ASSEMBLY HARDWARE

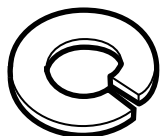
FITMENT KIT

M6 x 10mm BOLT



28X

**M6 LOCK
WASHER**



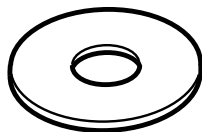
28X

D - RUBBER



1X

**M6 FENDER
WASHER**



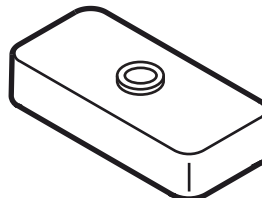
STANDARD BED

12X

LONG BED

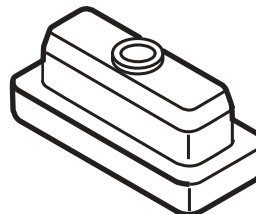
14X

**FASTENER
BLOCK CLAMP**



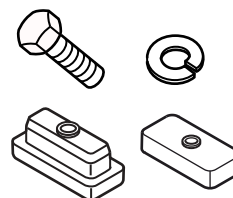
28X

**FASTENER
BLOCK**



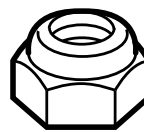
28X

SPARE PARTS



2X

**M6 LOCK
NUT**



STANDARD BED

12X

LONG BED

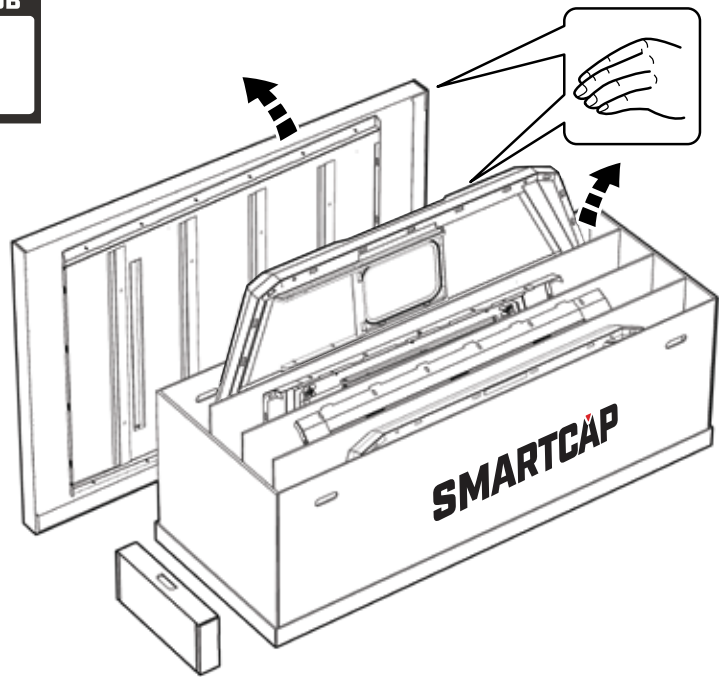
14X

STEP 1



IMPORTANT

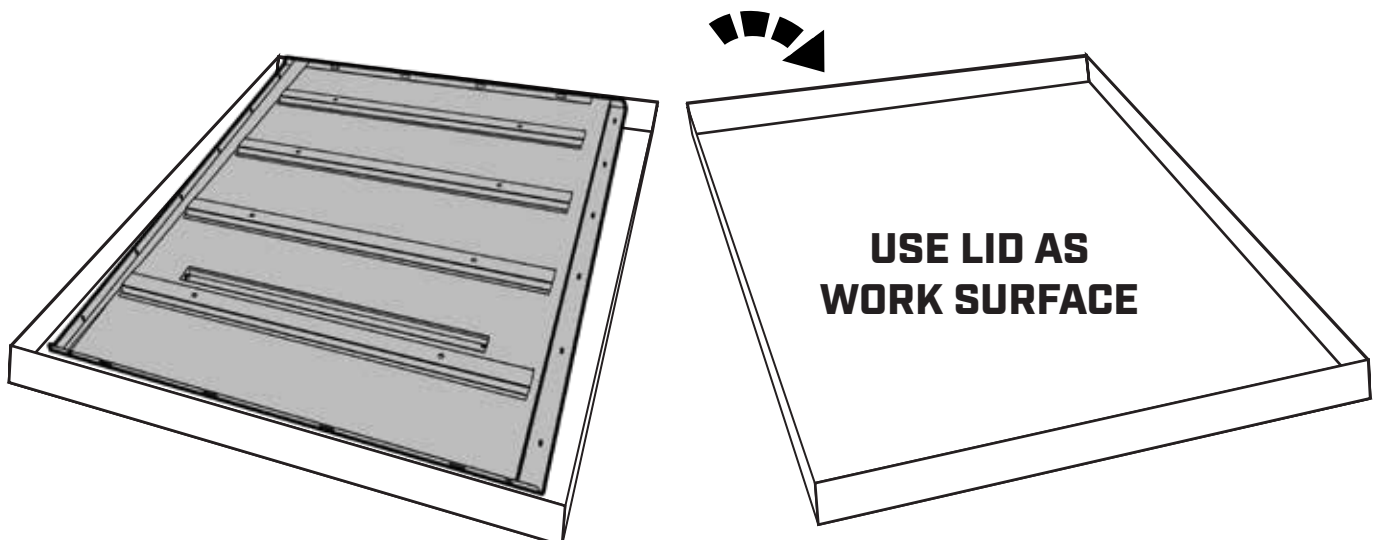
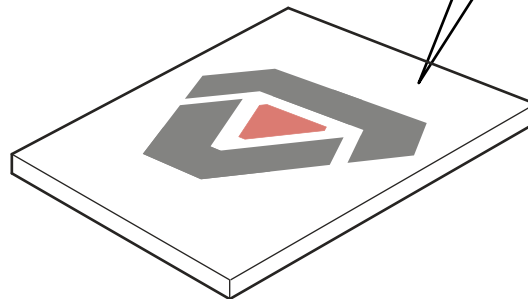
- ▼ BE SURE TO REMOVE ALL FIVE PANELS FROM THEIR PACKAGING AND INSPECT THE PAINTED SURFACES PRIOR TO ASSEMBLY, AS SMARTCAP WILL NOT ACCEPT PAINT DAMAGE WARRANTY CLAIMS AFTER ASSEMBLY IS COMPLETED. IF MANUFACTURING IMPERFECTIONS OR SHIPPING DAMAGES ARE FOUND, DO NOT CONTINUE WITH THE ASSEMBLY PROCESS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



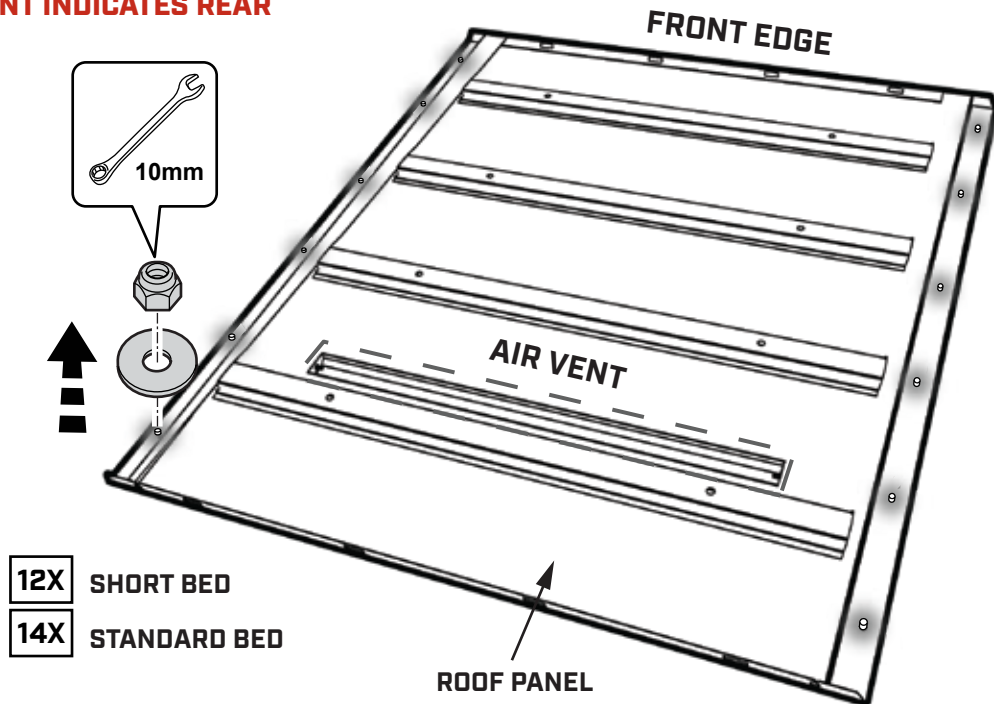
I-SHEET-NA-RAM-1

STEP 3

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



AIR VENT INDICATES REAR



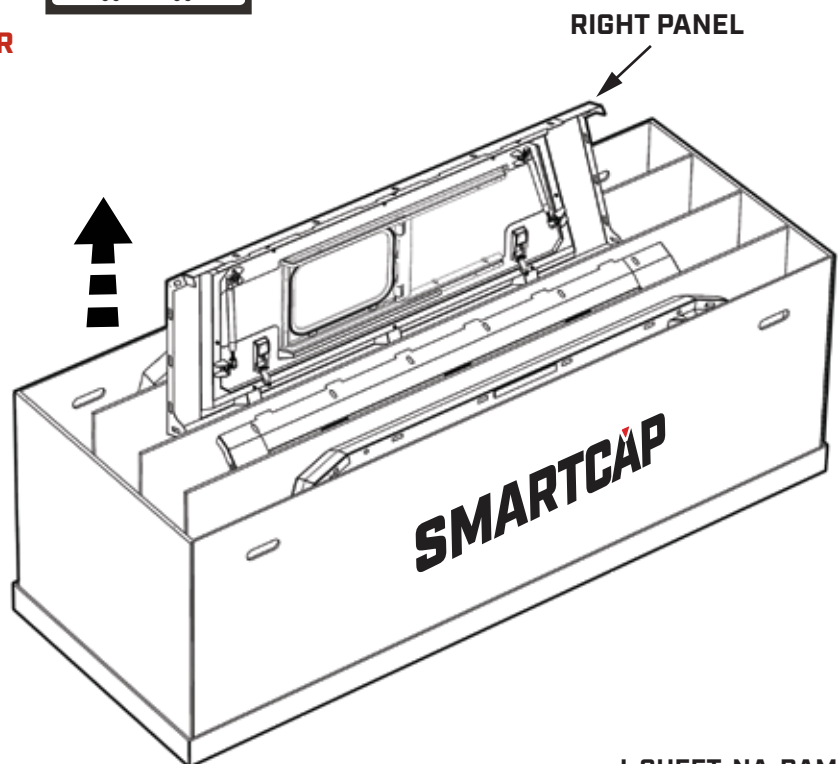
STEP 4

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-RAM-1

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.

2 PERSON JOB



SLANTED EDGE TOWARDS REAR



RIGHT PANEL

ROOF PANEL

PANEL TABS

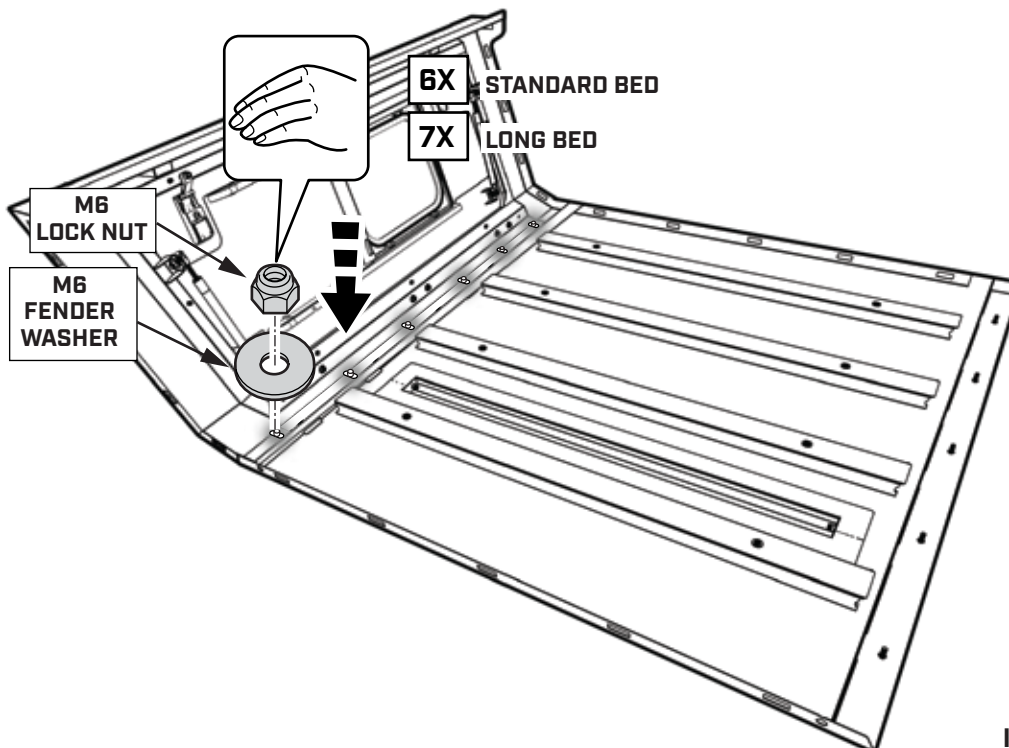
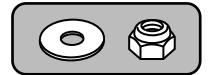
FRONT EDGE

AIR VENT

REAR EDGE

STEP 6

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



I-SHEET-NA-RAM-1

STEP 7

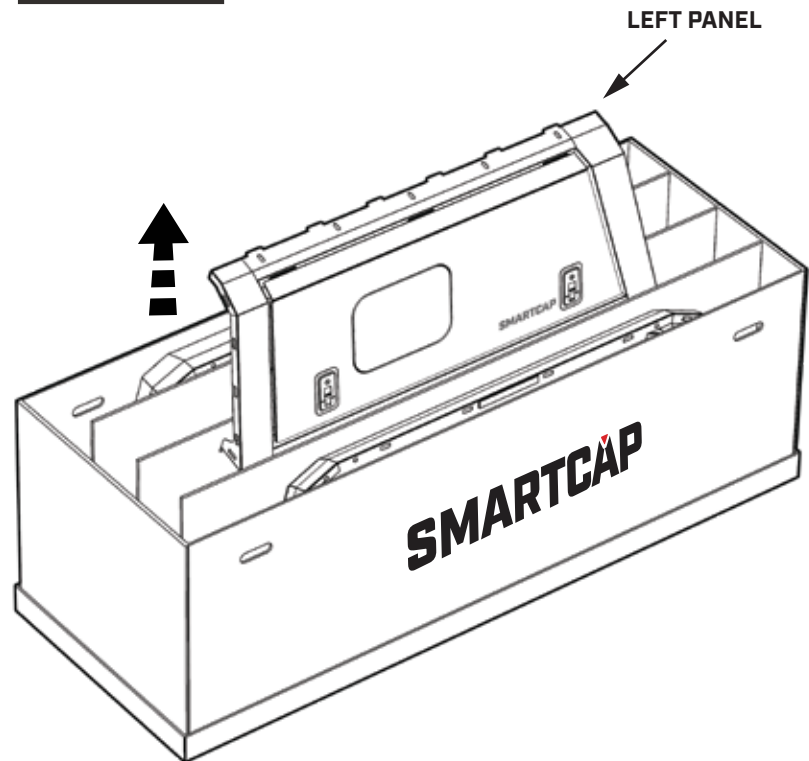
LOCATE THE LEFT PANEL IN THE SMARTCAP PACKAGE AND BRING IT TO YOUR WORK AREA.



SLANTED EDGE INDICATES REAR



2 PERSON JOB

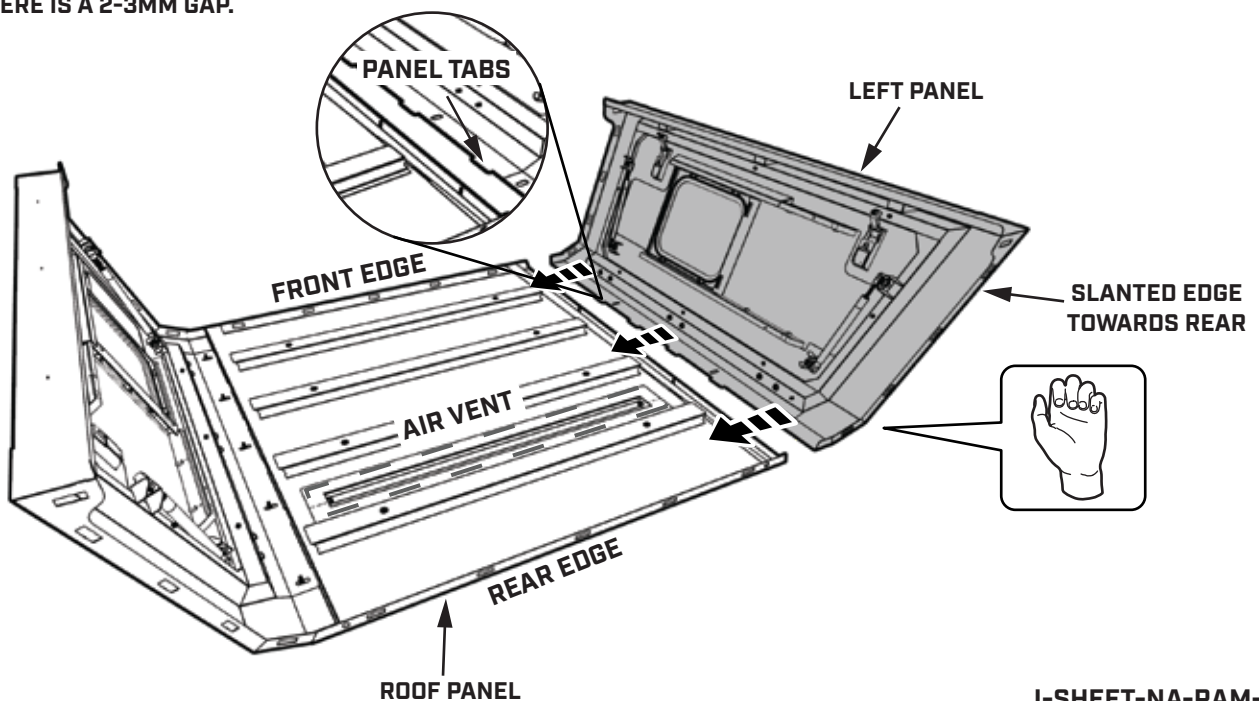


STEP 8

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.

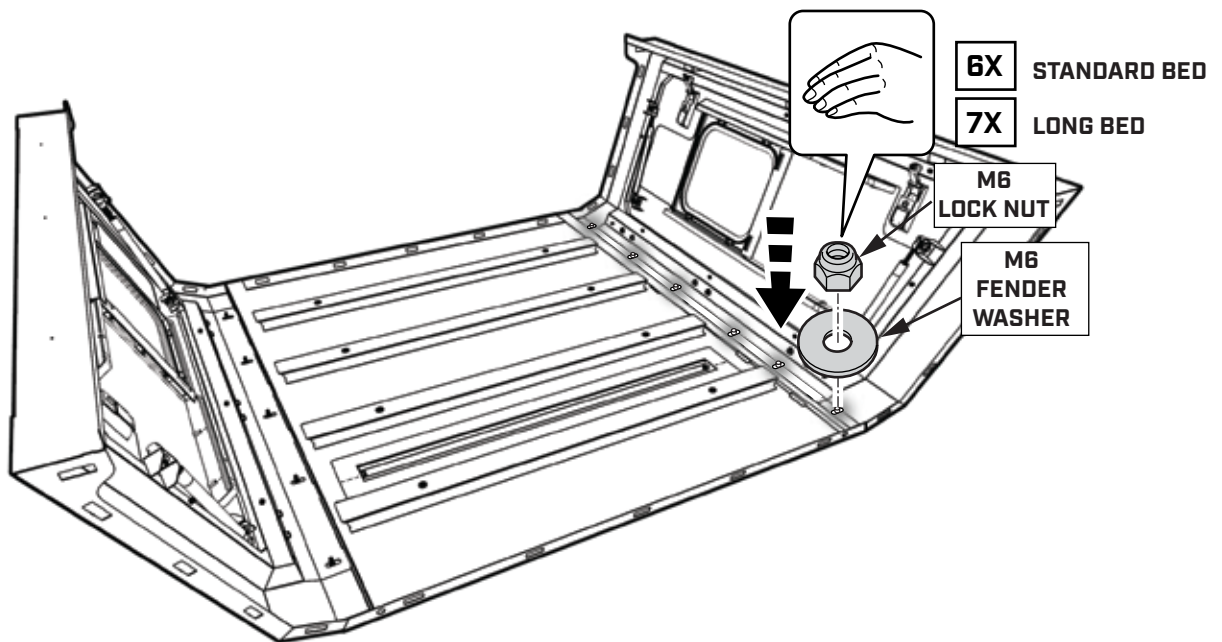
2 PERSON JOB



I-SHEET-NA-RAM-1

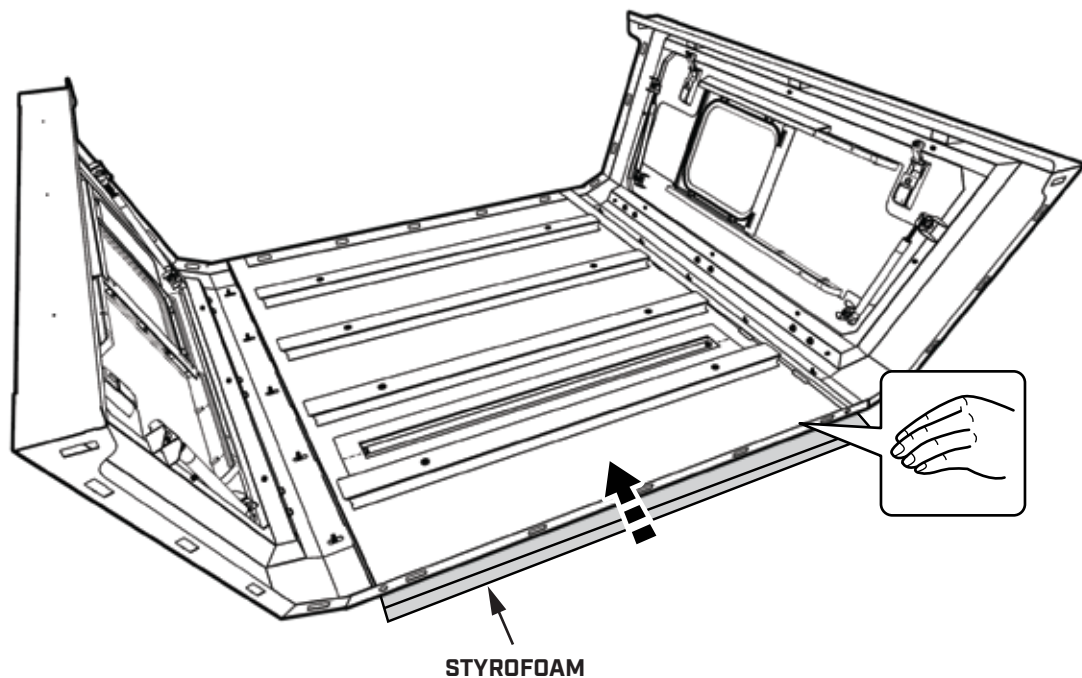
STEP 9

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.



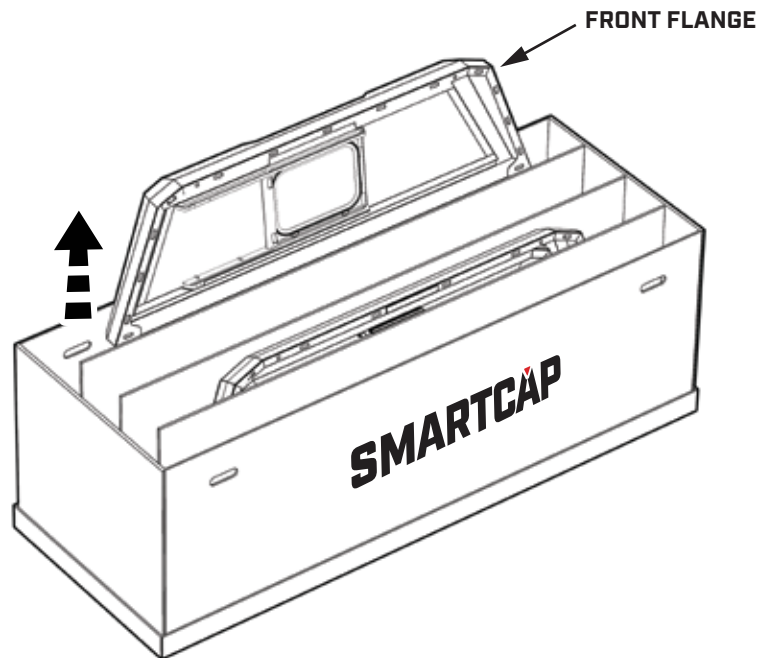
I-SHEET-NA-RAM-1

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.

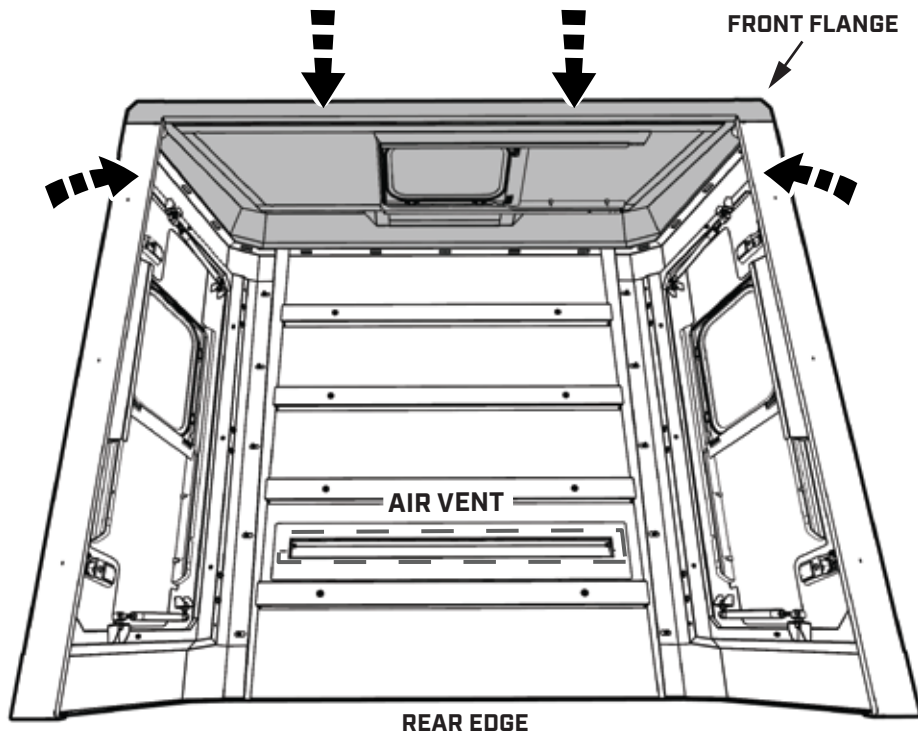
2 PERSON JOB



STEP 12

PLACE FRONT FLANGE AS SHOWN BELOW.

2 PERSON JOB



I-SHEET-NA-RAM-1

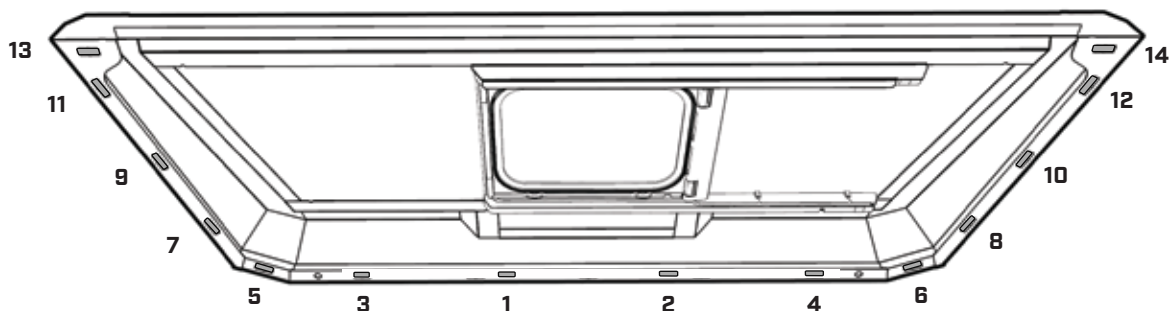
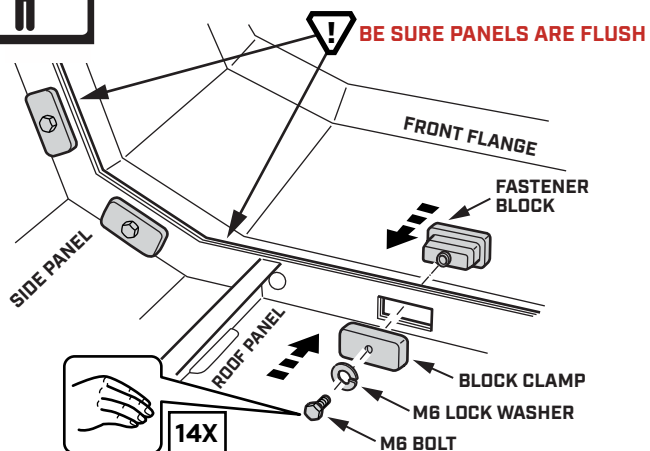
STEP 13

INSTALL HARDWARE ALONG FRONT FLANGE WITH M6 BOLT ON INSIDE.

START WITH ASSEMBLING FASTENER BLOCKS 1-5.

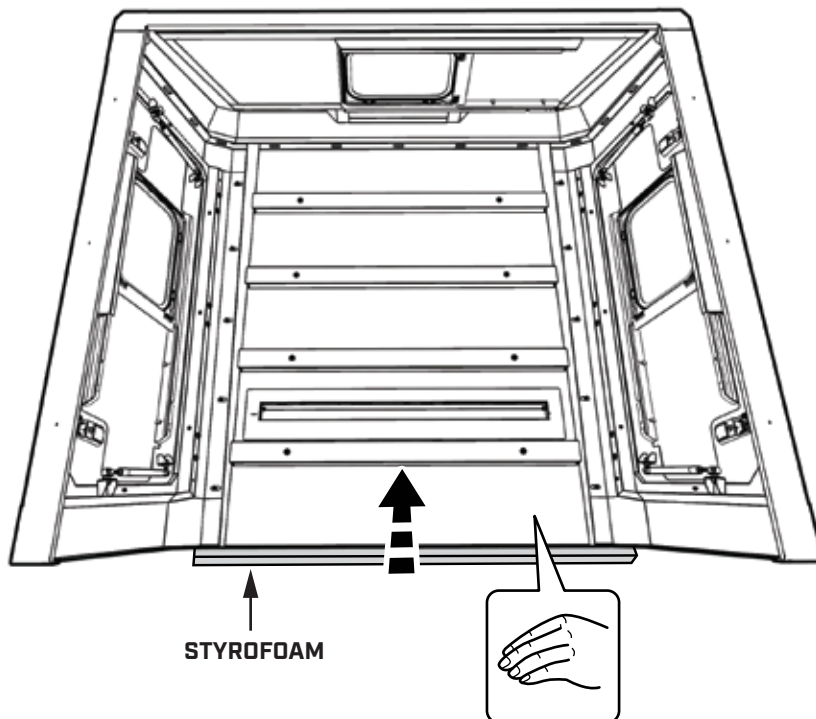
ADJUST LEFT AND RIGHT PANELS TO ALIGN FASTENER BLOCKS 6-15 FOR ASSEMBLY.

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.



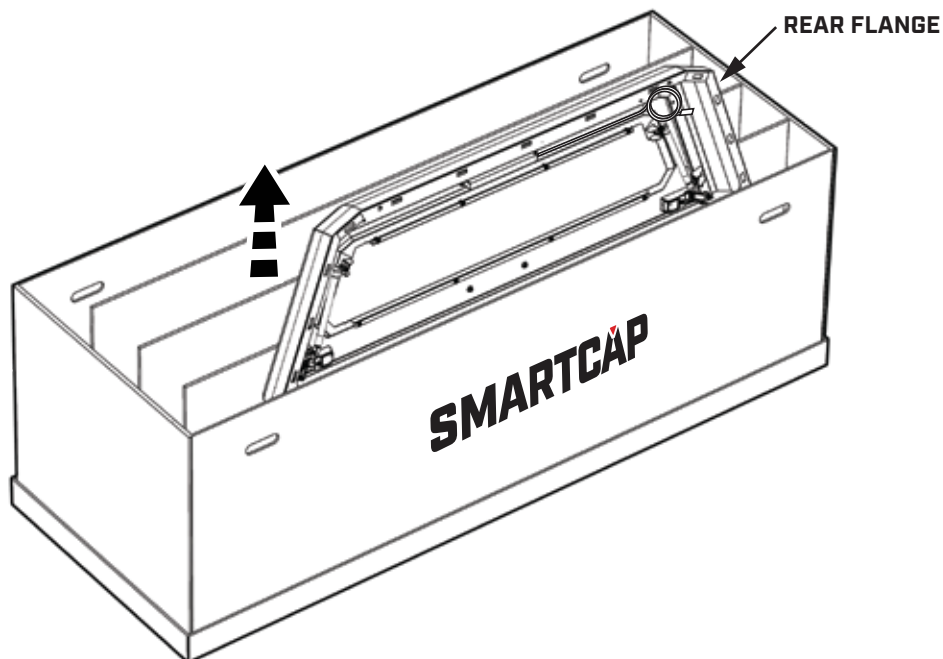
I-SHEET-NA-RAM-1

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.

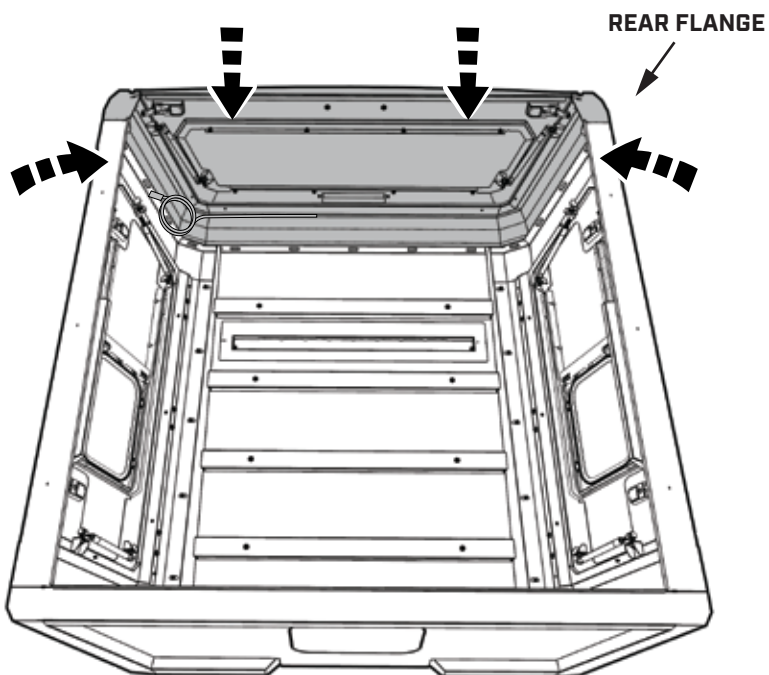
2 PERSON JOB



STEP 16

PLACE REAR FLANGE AS SHOWN BELOW.

2 PERSON JOB



I-SHEET-NA-RAM-1

STEP 17

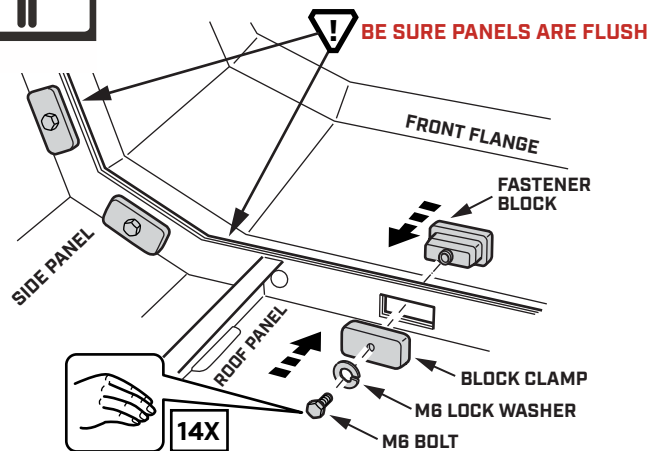
INSTALL HARDWARE ALONG REAR FLANGE WITH BOLT ON INSIDE.

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.

2 PERSON JOB

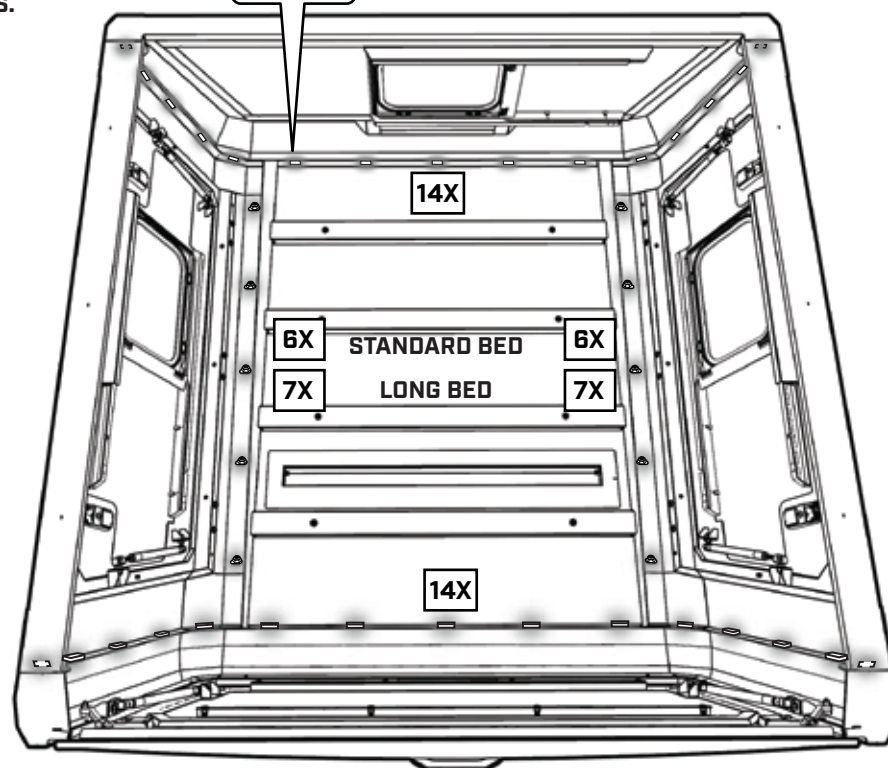


STEP 18

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



[3.7 ft. lbs]/[5 Nm]

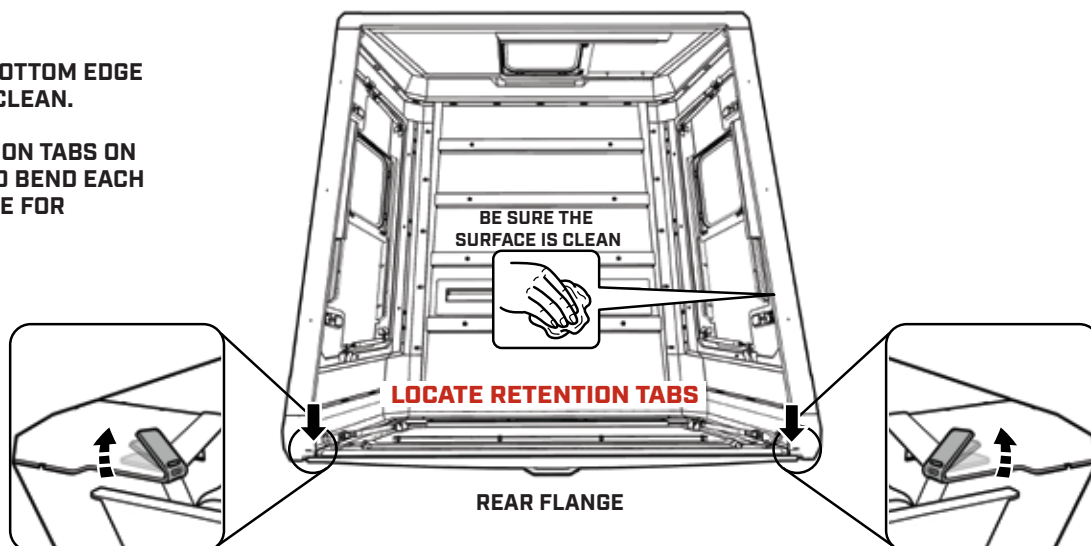


I-SHEET-NA-RAM-1

STEP 19

ENSURE THE ENTIRE BOTTOM EDGE OF THE SMARTCAP IS CLEAN.

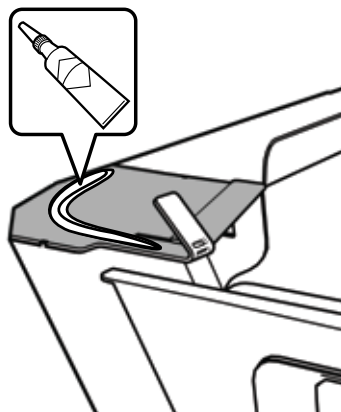
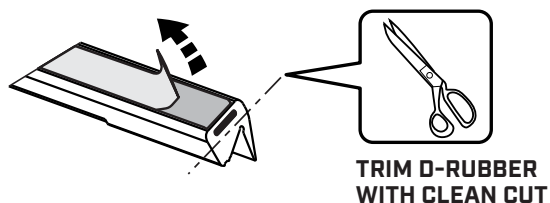
LOCATE BOTH RETENTION TABS ON THE REAR FLANGE AND BEND EACH TO A 45-DEGREE ANGLE FOR D-RUBBER FITMENT.



STEP 20

TRIM THE D-RUBBER WITH A CLEAN, STRAIGHT CUT.

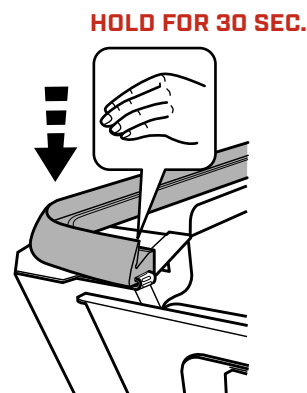
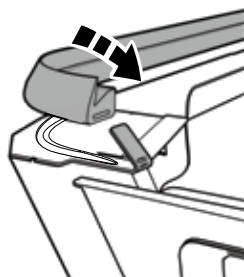
APPLY 2-3 INCHES OF GEL SUPER GLUE NEAR THE RETENTION TABS, ALONG THE BOTTOM EDGE OF THE REAR FLANGE



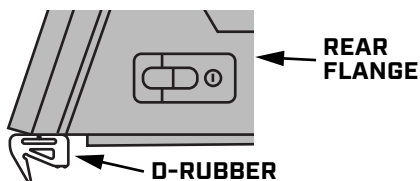
STEP 21

FULLY INSERT THE RETENTION TAB INTO THE SLOT ON THE D-RUBBER. ENSURE THE D-RUBBER IS ORIENTED CORRECTLY WITH ITS PROFILE MATCHING THE CONTOUR OF THE REAR FLANGE.

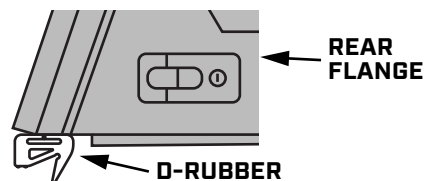
PRESS DOWN FIRMLY ON THE TAB AND THE D-RUBBER TO BOND IT TO THE REAR FLANGE, CREATING A TIGHT SEAL.



CORRECT D-RUBBER ORIENTATION



INCORRECT D-RUBBER ORIENTATION

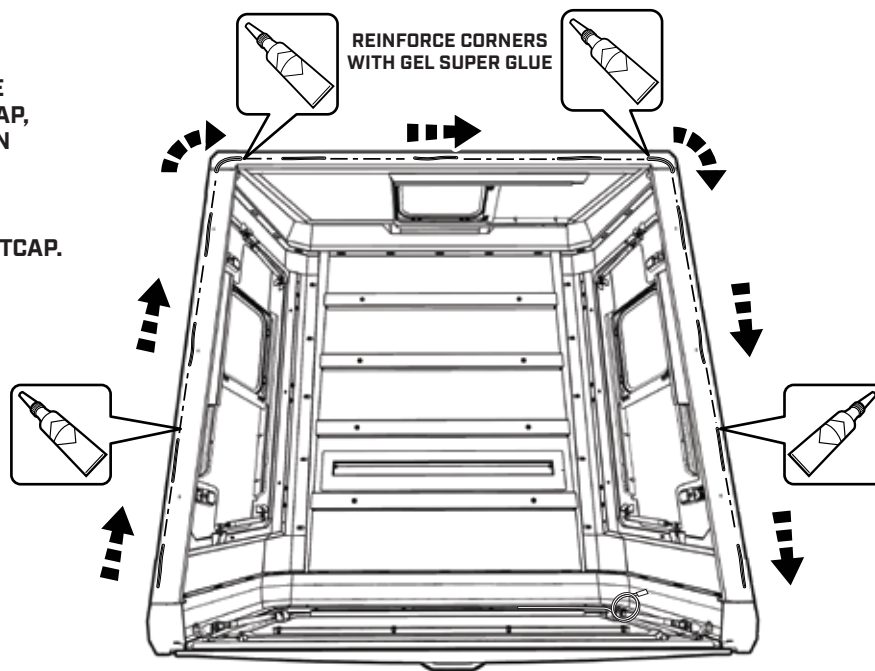


I-SHEET-NA-RAM-1

STEP 22

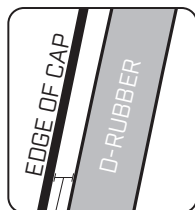
APPLY 3 INCH LONG STRANDS OF GEL SUPER GLUE ALONG THE BOTTOM EDGE OF THE SMARTCAP, LEAVING 3 INCH GAPS BETWEEN EACH STRAND OF GLUE.

ENSURE THAT GLUE IS APPLIED TO THE CORNERS OF THE SMARTCAP.

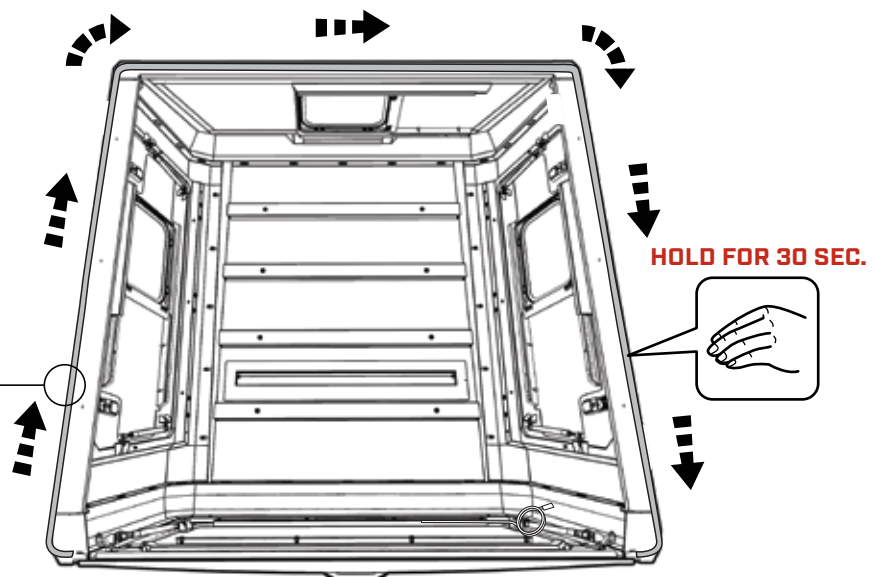


ALIGN THE D-RUBBER ALONG THE SMARTCAP'S EDGE, MAINTAINING A CONSISTENT 1/8 INCH GAP FROM THE EDGE.

APPLY PRESSURE FOR AT LEAST 30 SECONDS ON THE AREAS WHERE SUPER GLUE WAS APPLIED.



1/8 INCH
FROM EDGE

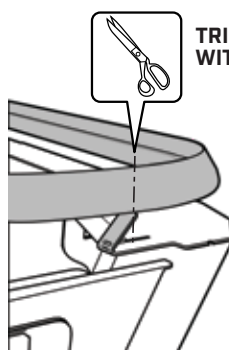


STEP 23

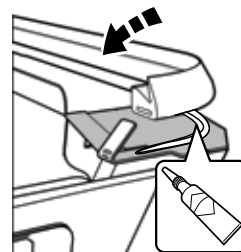
TRIM ANY EXCESS D-RUBBER BEYOND THE EDGE FOR A NEAT FINISH.

APPLY 2-3 INCHES OF GEL SUPER GLUE NEAR THE RETENTION TAB, ALONG THE BOTTOM EDGE OF THE REAR FLANGE. FULLY INSERT THE RETENTION TAB INTO THE SLOT ON THE D-RUBBER.

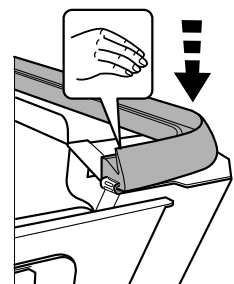
PRESS DOWN FIRMLY ON THE TAB AND THE D-RUBBER TO BOND IT TO THE REAR FLANGE, CREATING A TIGHT SEAL.



TRIM D-RUBBER
WITH CLEAN CUT



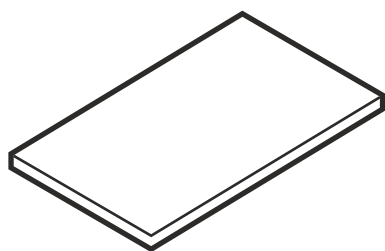
HOLD FOR 30 SEC.



I-SHEET-NA-RAM-1

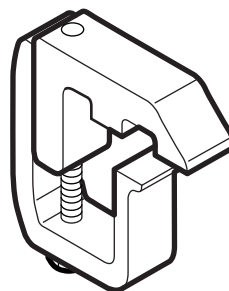
INSTALLATION HARDWARE

THIN RUBBER PAD



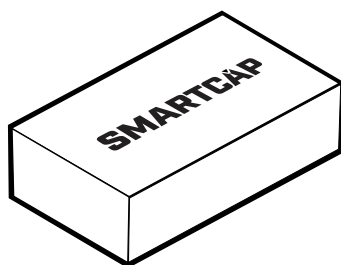
6X

MOUNTING CLAMP



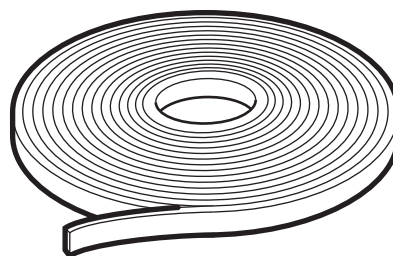
6X

THICK RUBBER PAD



8X

FOAM SEAL TAPE



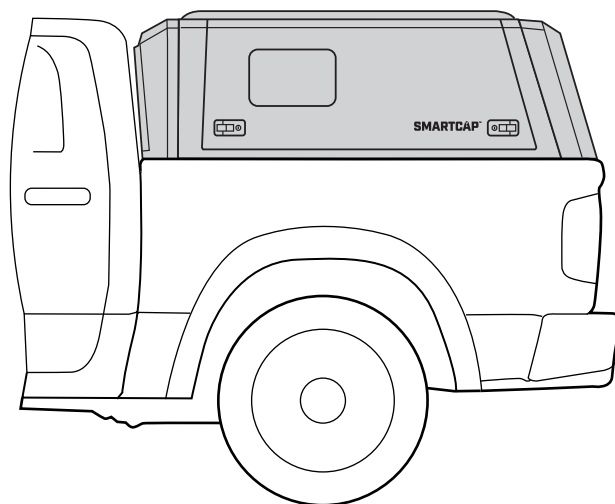
1X

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.

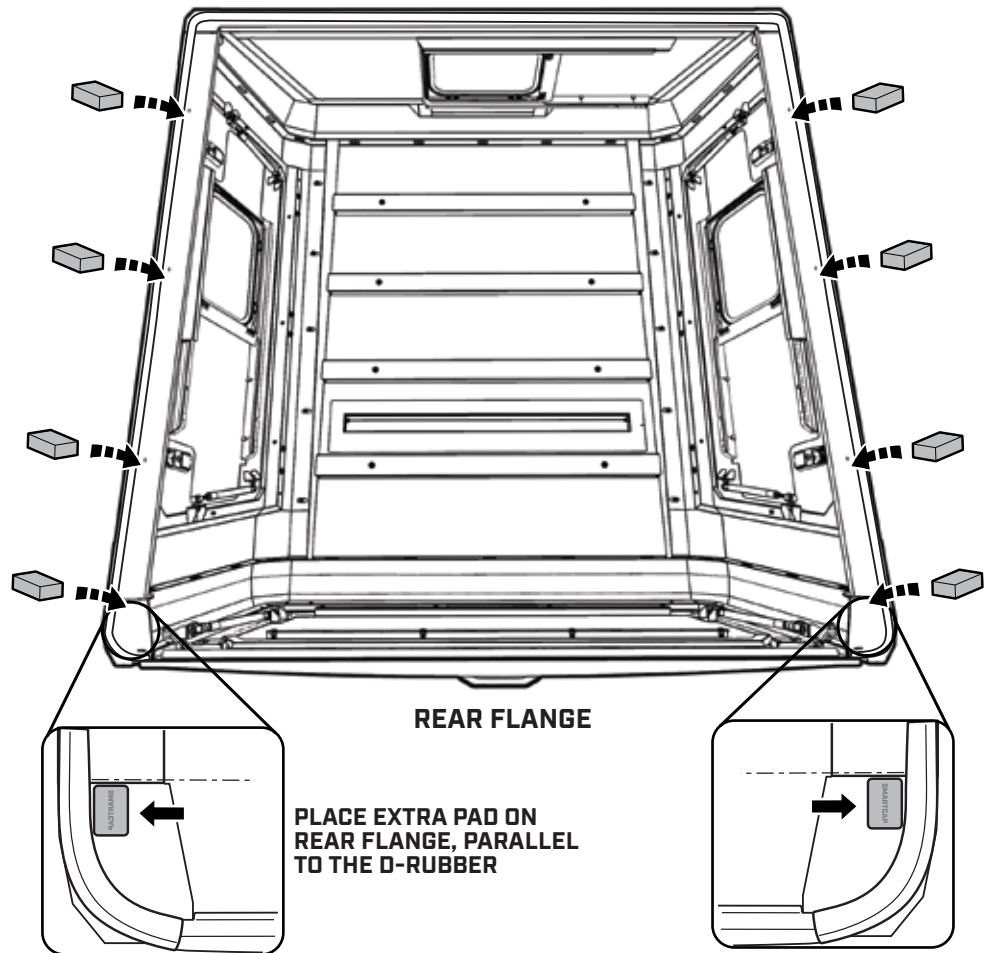
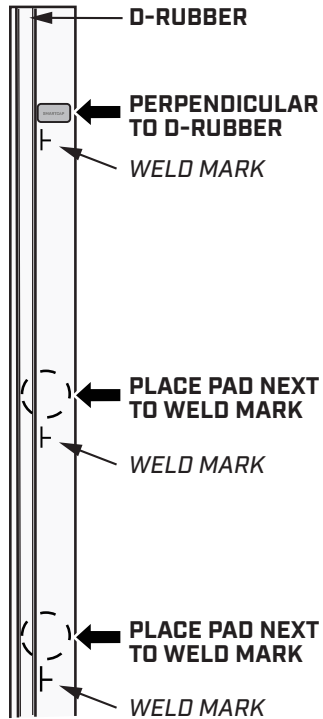


I-SHEET-NA-RAM-1

STEP 24

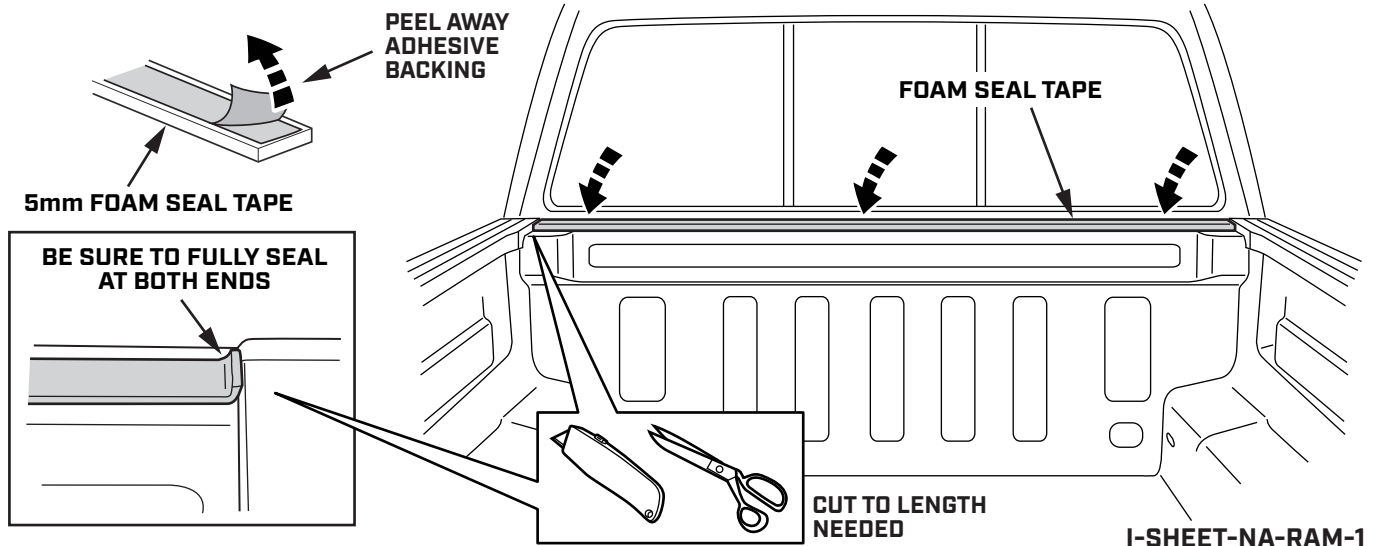
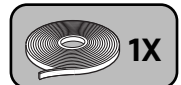
REMOVE THE ADHESIVE BACKING FROM THE THICK RUBBER PAD.

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



STEP 25

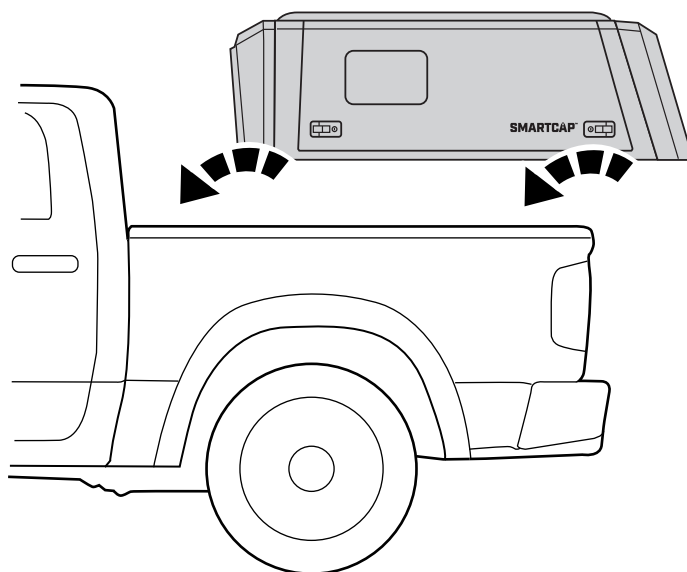
INSPECT THE TRUCK BED. IF FRONT EDGE IS LOWER THAN THE SIDES, ADD FOAM SEAL TAPE TO THE FRONT EDGE OF THE BED.



STEP 26

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

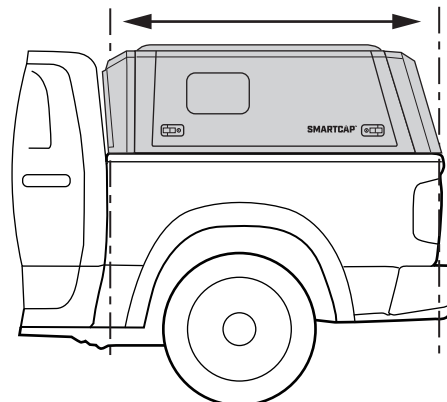
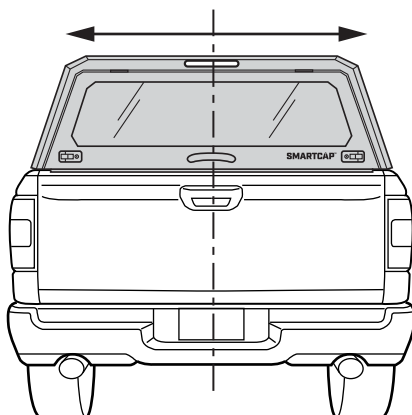
TO AVOID DAMAGE TO THE D-RUBBER, DO NOT SLIDE THE SMARTCAP INTO PLACE.



STEP 27

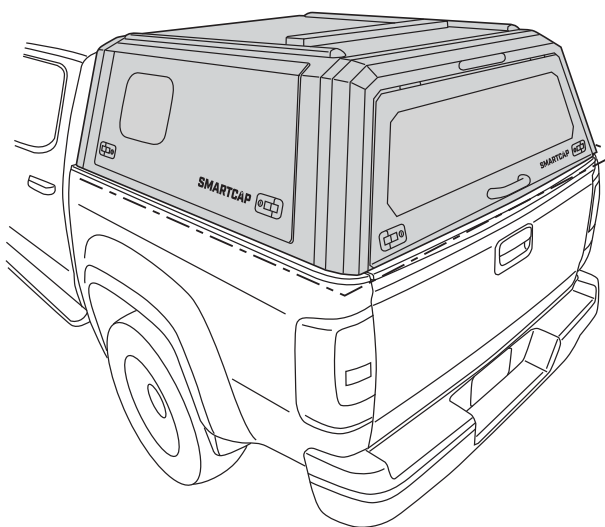
CHECK THAT THE SMARTCAP IS PROPERLY POSITIONED AND CENTERED ON THE TRUCK BED.

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.



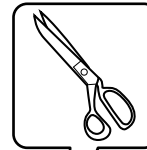
I-SHEET-NA-RAM-1

STEP 29

IN ORDER TO ENSURE CORRECT COMPRESSION OF THE D-RUBBER, YOU MUST TRIM TWO 1" INCH STRIPS FROM TWO DIFFERENT THIN RUBBER PADS.

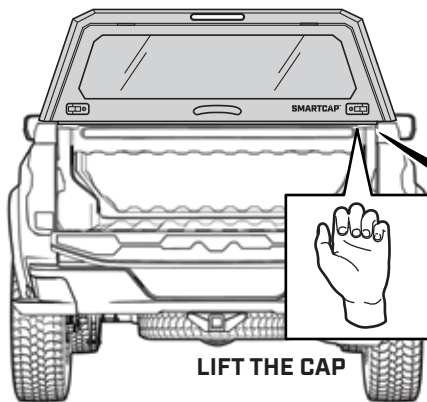
WHILE LIFTING UP ON THE CAP, PLACE 1 STRIP IN EACH REAR CORNER OF THE CAP, IN BETWEEN THE THICK RUBBER PAD AND THE TRUCK BED RAILING.

REPEAT FOR EACH SIDE



TRIM A 1" INCH STRIP FROM THIN RUBBER PAD.

THIN RUBBER PAD



THICK RUBBER PAD

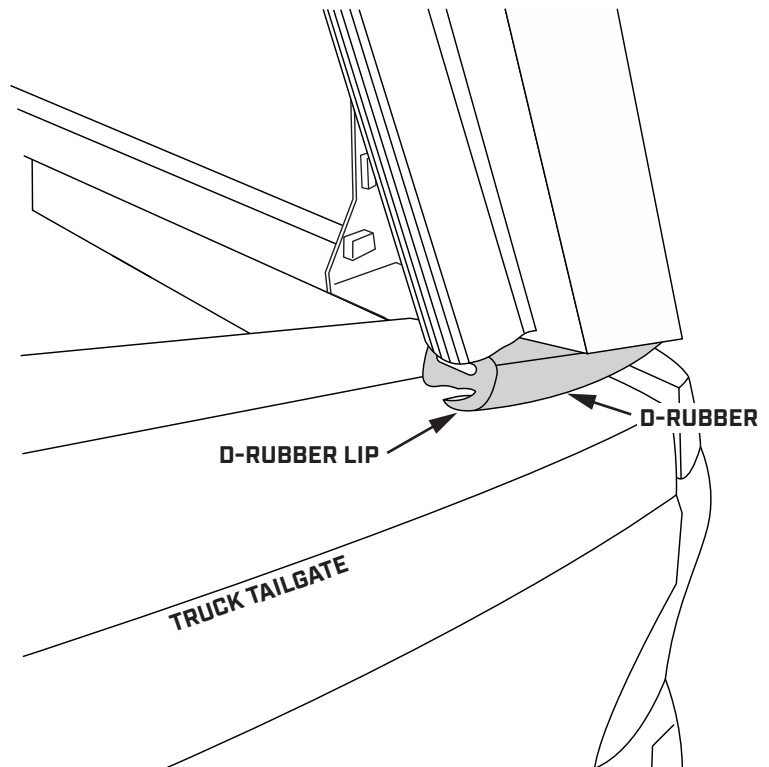
TRUCK BED RAIL

THIN RUBBER PAD STRIP

2X

STEP 30

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

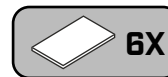
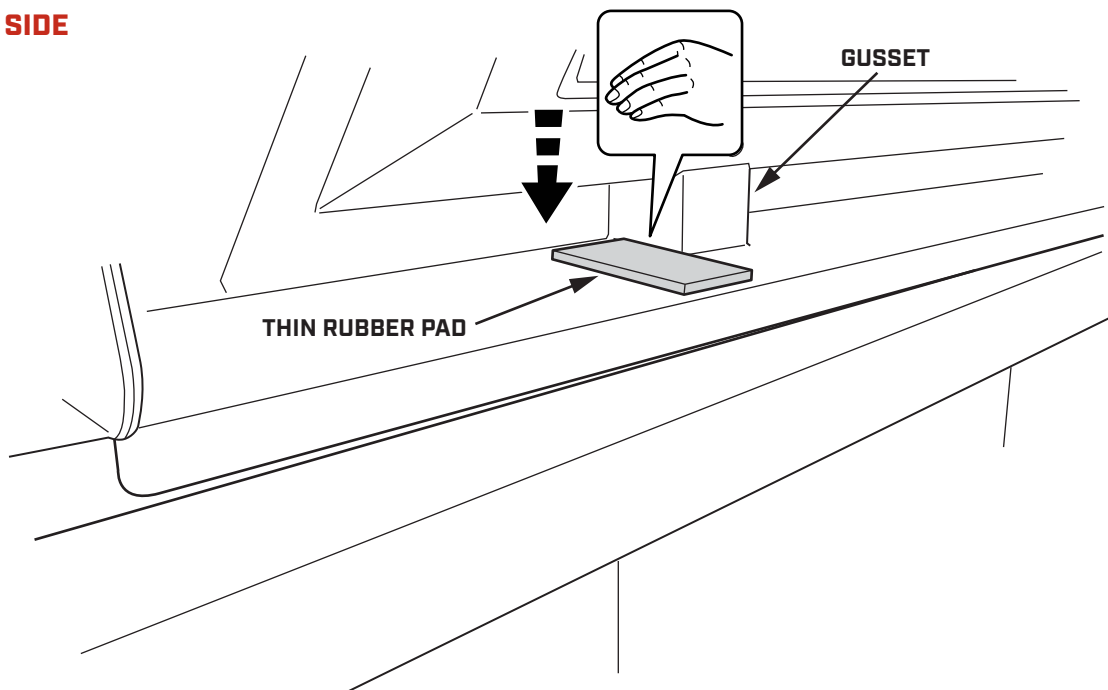


I-SHEET-NA-RAM-1

STEP 31

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

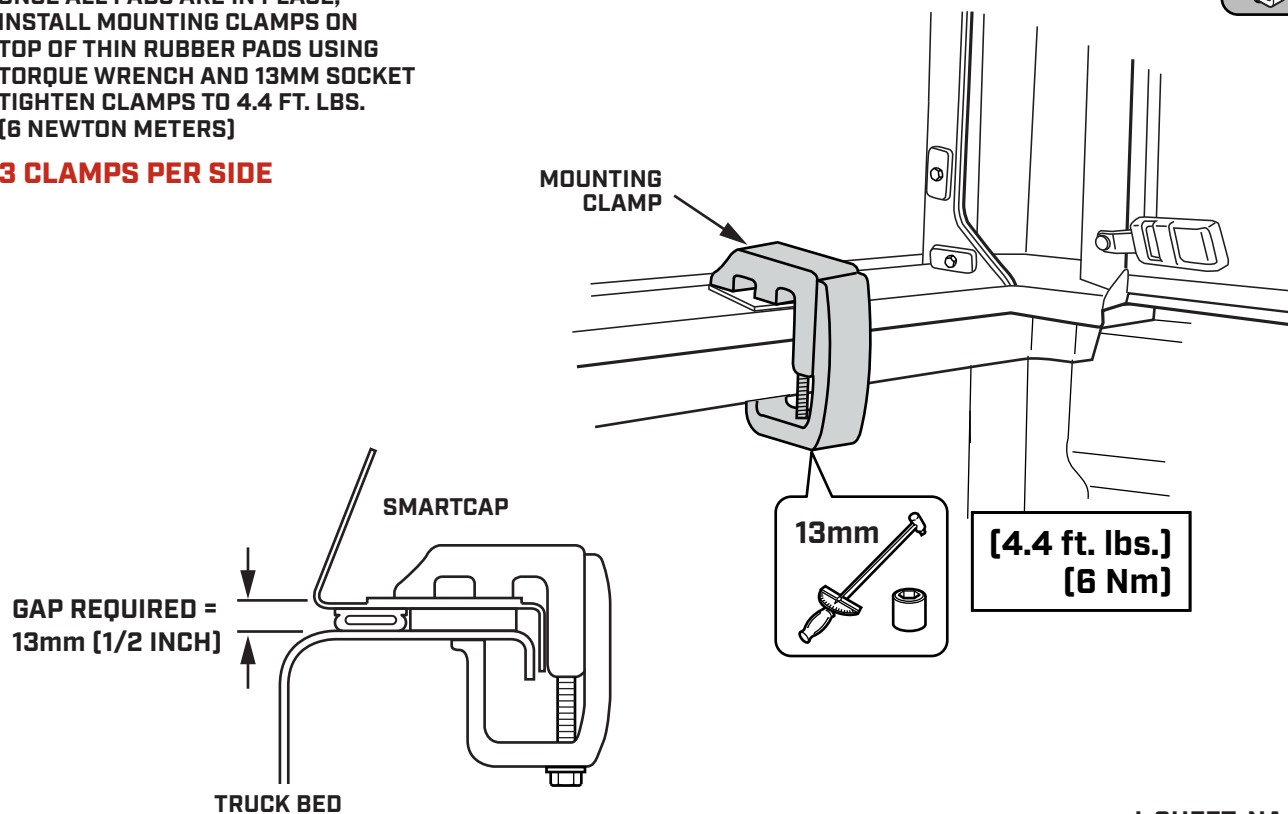
3 PADS PER SIDE



STEP 32

ONCE ALL PADS ARE IN PLACE, INSTALL MOUNTING CLAMPS ON TOP OF THIN RUBBER PADS USING TORQUE WRENCH AND 13MM SOCKET. TIGHTEN CLAMPS TO 4.4 FT. LBS. [6 NEWTON METERS]

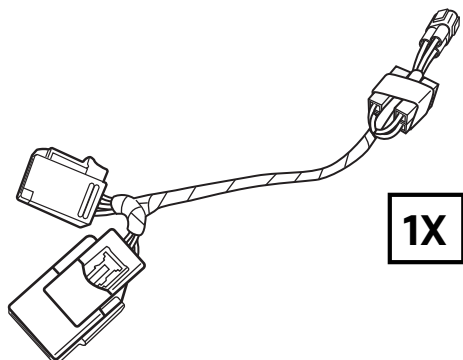
3 CLAMPS PER SIDE



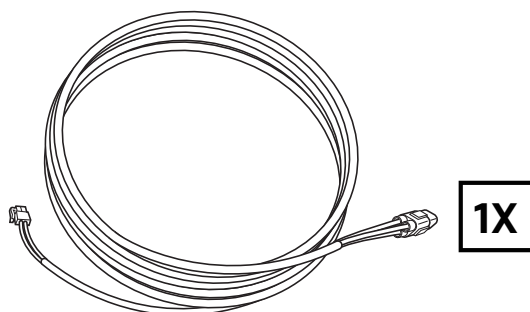
I-SHEET-NA-RAM-1

THIRD BRAKE LIGHT CONNECTOR INSTALLATION

T-HARNESS

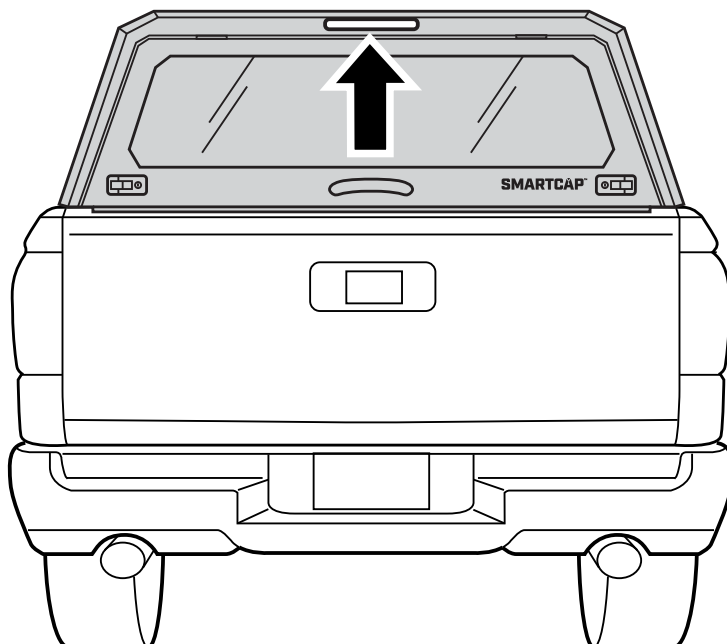


CONNECTOR HARNESS



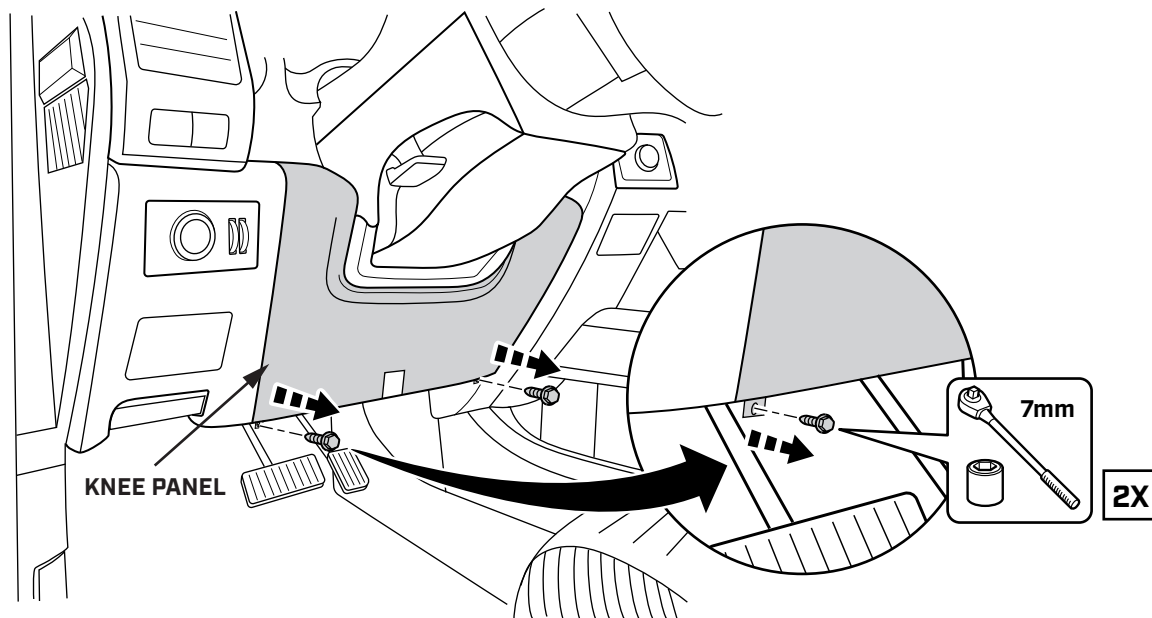
IMPORTANT

- ▼ 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.
- ▼ DETERMINE WHICH CONNECTOR HARNESS YOUR FITMENT KIT CONTAINS.



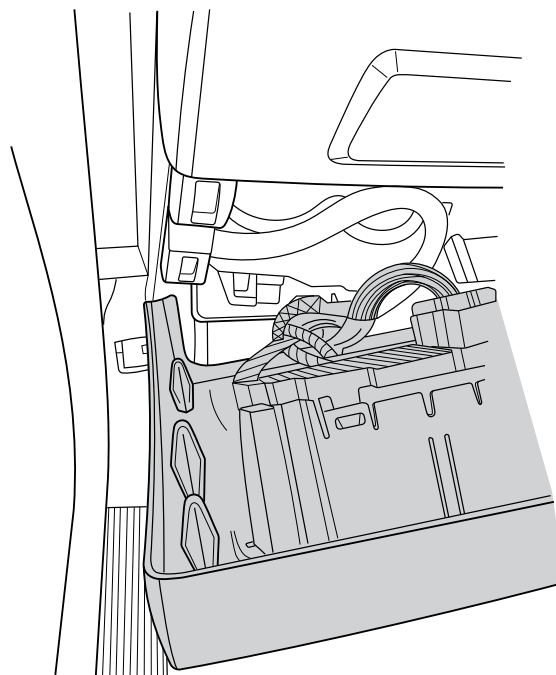
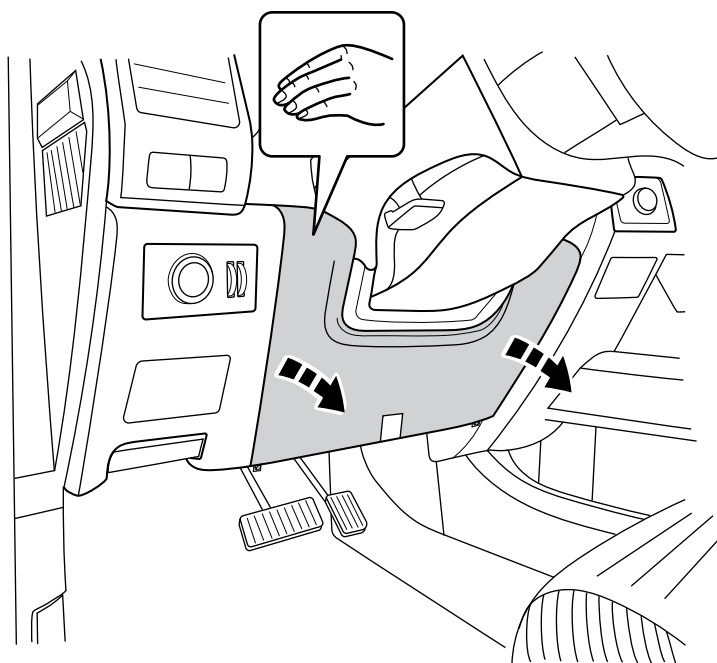
STEP 33

REMOVE THE TWO BOLTS FROM BOTTOM
OF THE DRIVER-SIDE KNEE PANEL
USING A SOCKET WRENCH AND 7MM SOCKET.



STEP 34

STARTING FROM THE UPPER CORNERS,
GENTLY PRY AND RELEASE THE CLIPS
TO REMOVE THE DRIVER-SIDE KNEE PANEL.

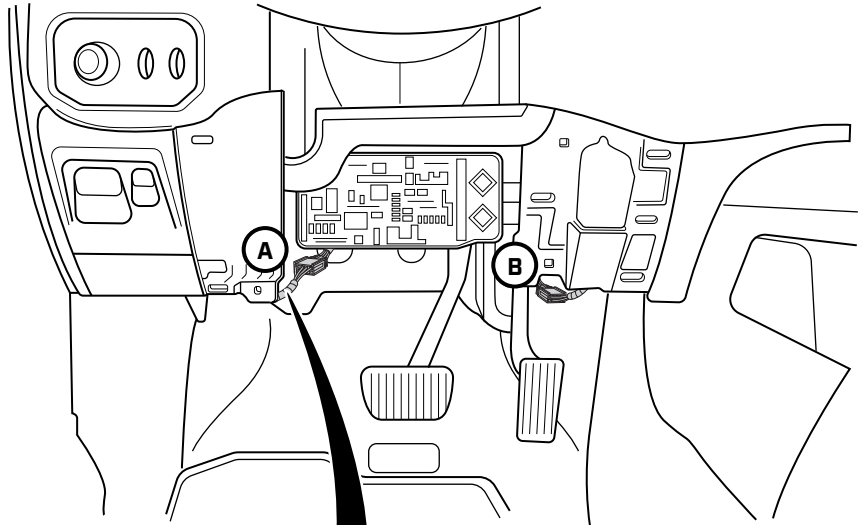


I-SHEET-NA-RAM-1

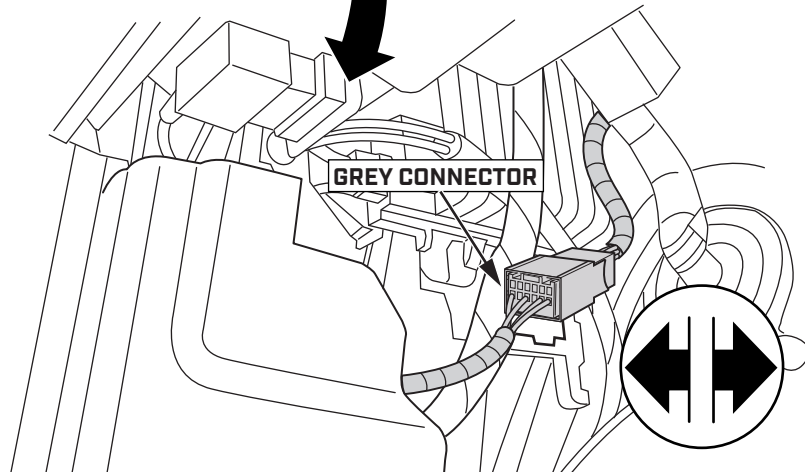
STEP 35

LOCATE THE GREY CONNECTOR
WITHIN THE DRIVER SIDE CONSOLE.

DEPENDING ON THE VEHICLE,
THE GREY CONNECTOR MAY BE
LOCATED ON THE RIGHT OR LEFT
SIDE, AS SHOWN.

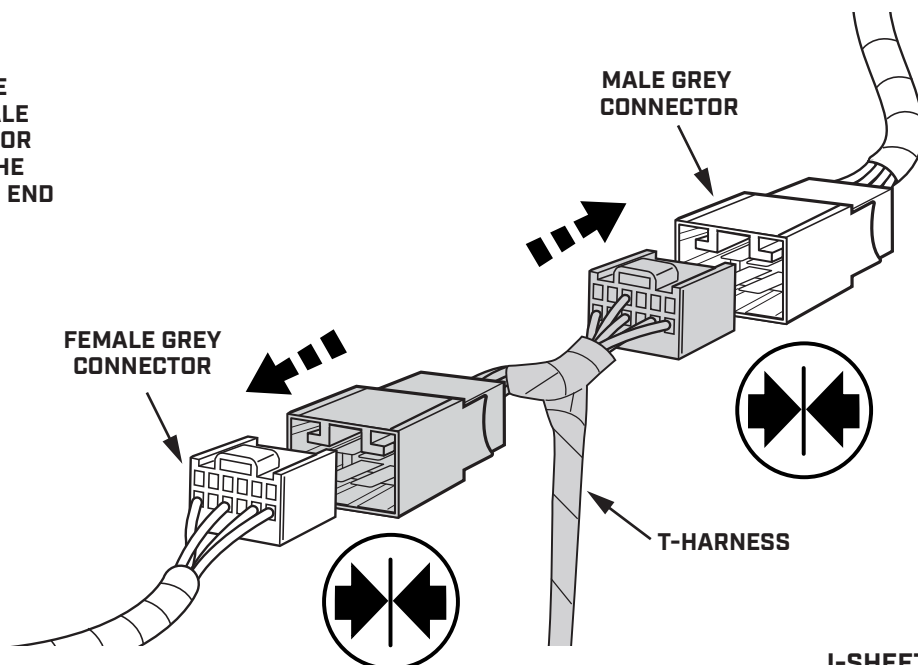


DISCONNECT THE GREY CONNECTOR.



STEP 36

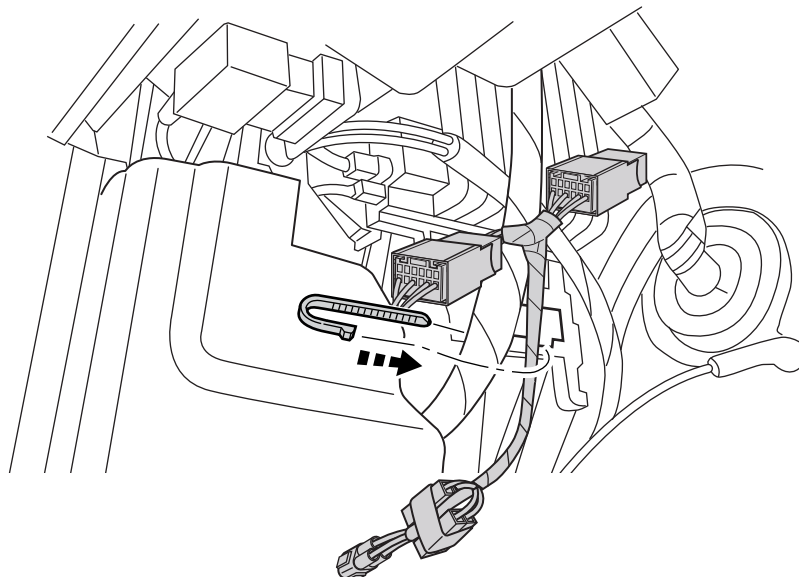
PLUG THE MALE END OF THE
T-HARNESS INTO THE FEMALE
END OF THE GREY CONNECTOR
AND THE FEMALE END OF THE
T-HARNESS INTO THE MALE END
OF THE GREY CONNECTOR.



I-SHEET-NA-RAM-1

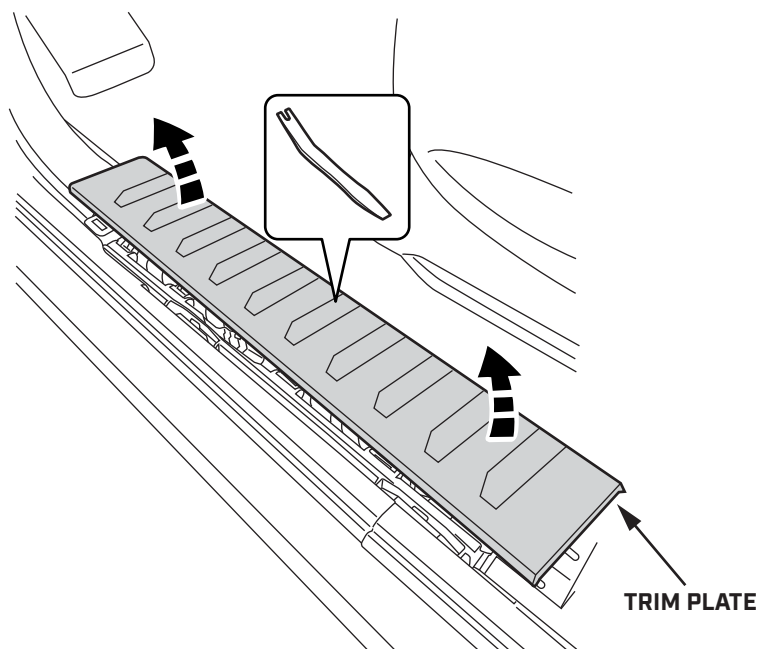
STEP 37

SECURE WITH CABLE TIES AS SHOWN.



STEP 38

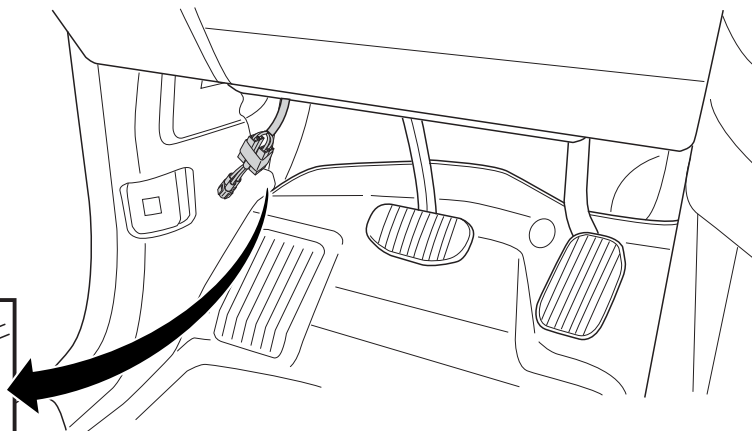
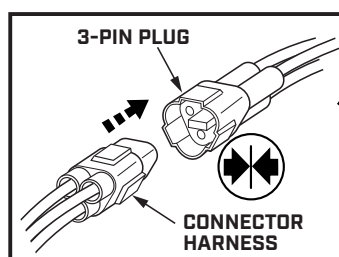
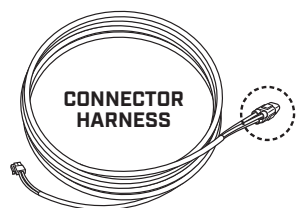
USING A PLASTIC PRY TOOL, CAREFULLY PRY OFF THE DOOR SILL TRIM PLATE ON THE DRIVER SIDE



STEP 39

LOCATE THE 3-PIN PLUG OF THE T-HARNESS.

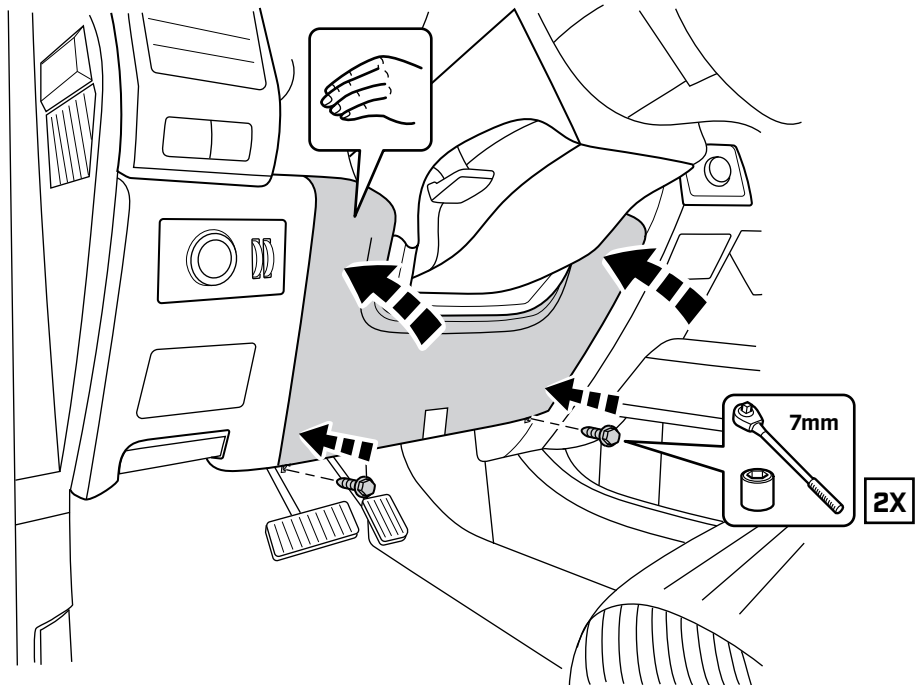
PLUG THE CONNECTOR HARNESS INTO THE 3-PIN PLUG OF THE T-HARNESS.



I-SHEET-NA-RAM-1

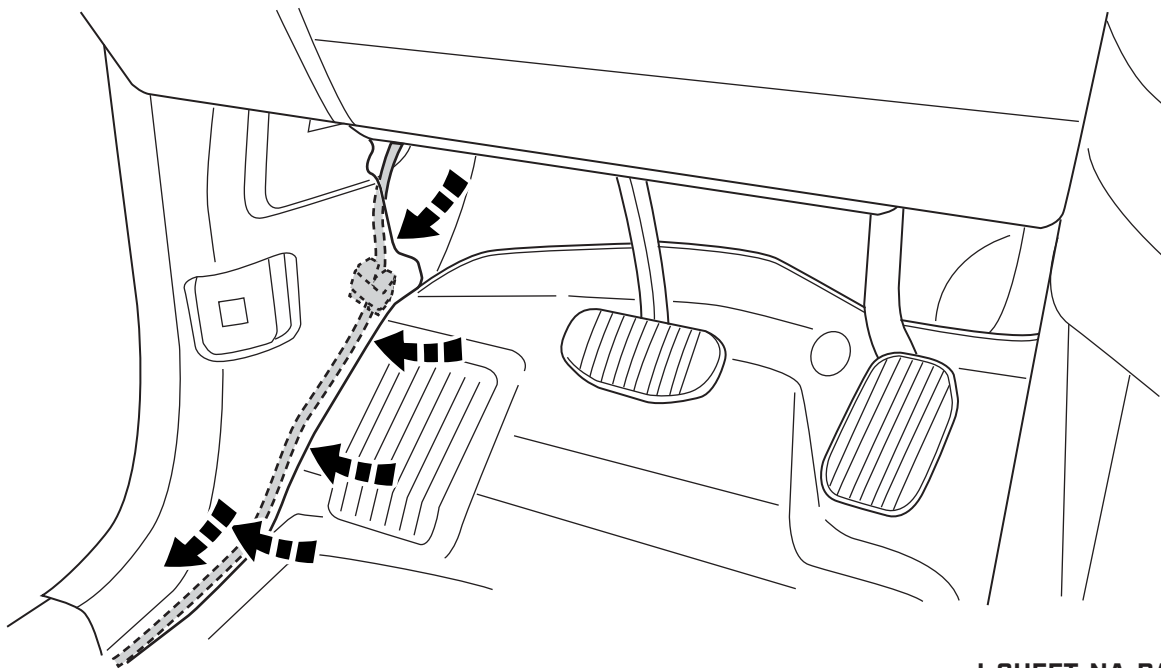
STEP 40

REINSTALL KNEE PANEL AND BOLTS USING A SOCKET WRENCH AND 7MM SOCKET.



STEP 41

TUCK THE HARNESSES UNDER THE EDGE OF THE OUTER FOOT WELL KICK PANEL AND ROUTE DOWN TOWARDS THE DOOR SILL.



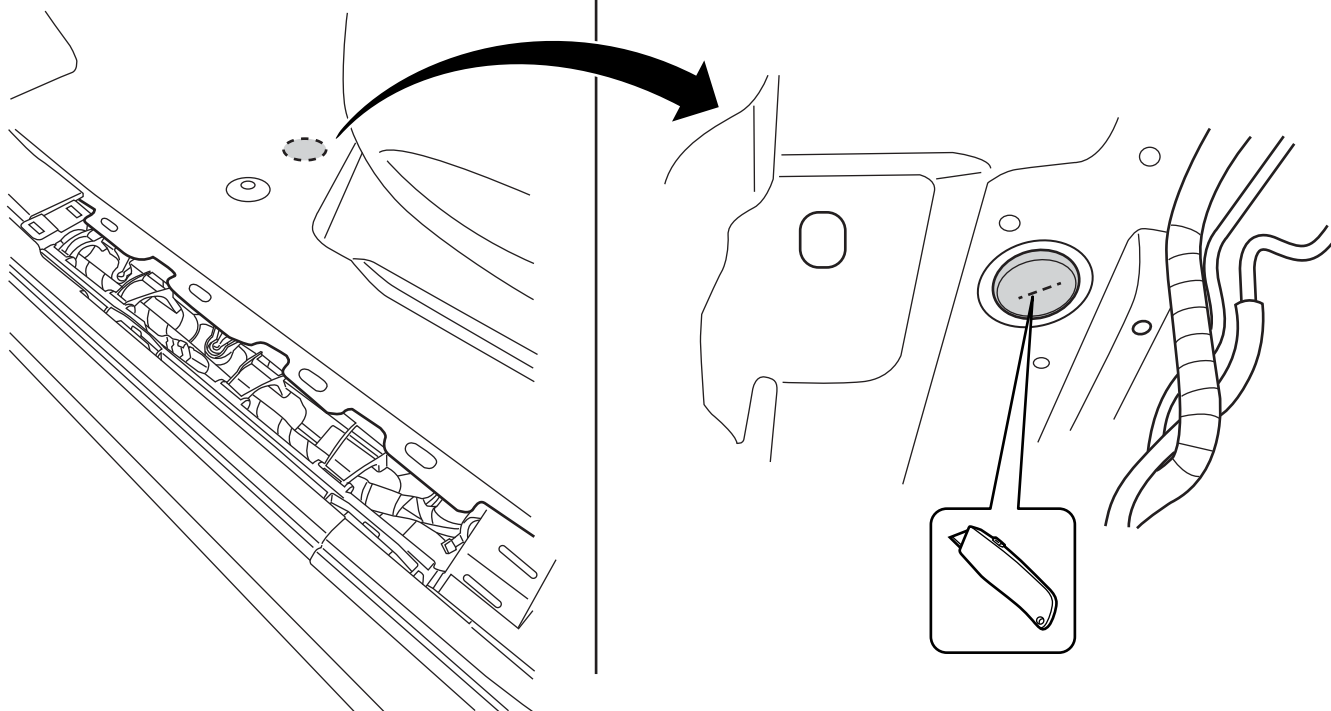
I-SHEET-NA-RAM-1

STEP 42

UNDERNEATH THE CARPET LINER, THERE WILL BE A RUBBER GROMMET IN THE METAL FLOOR.

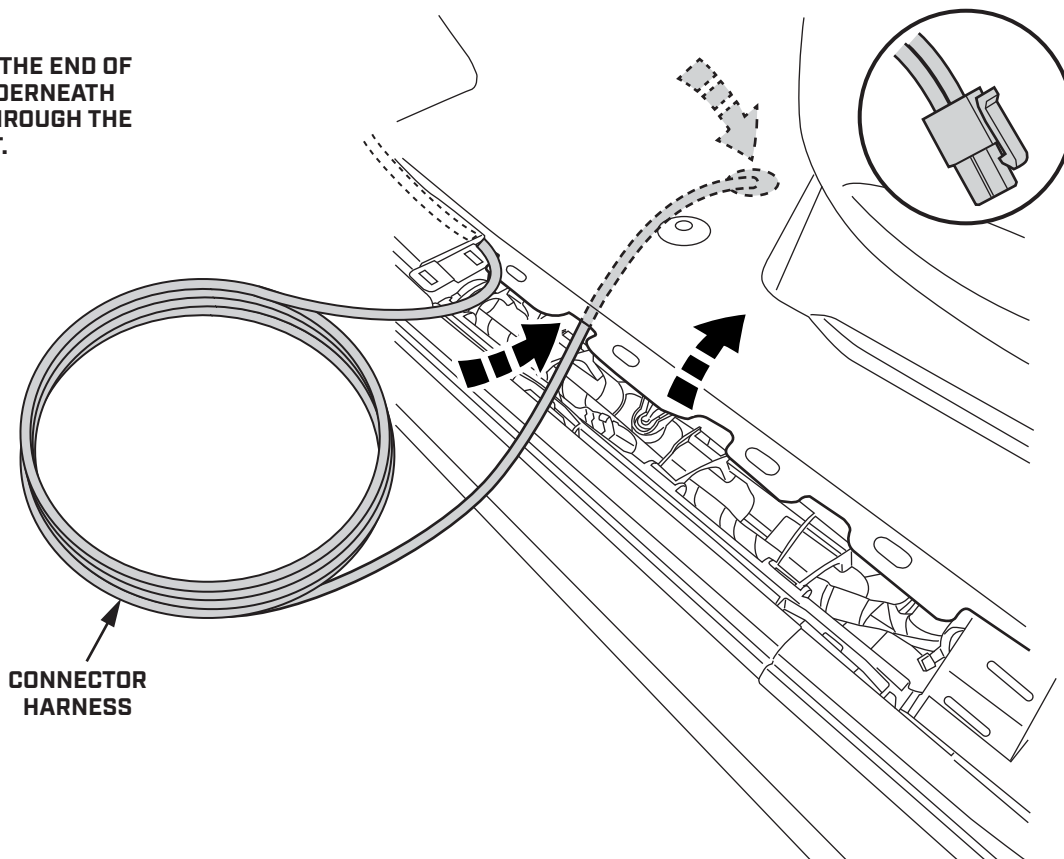
LOCATE THIS GROMMET FROM UNDERNEATH THE VEHICLE.

IF NEEDED, DRILL OR CUT A SMALL OPENING THROUGH THE RUBBER GROMMET.



STEP 43

ROUTE THE 2-PIN PLUG AT THE END OF CONNECTOR HARNESS UNDERNEATH THE CARPET LINER AND THROUGH THE OPENING IN THE GROMMET.

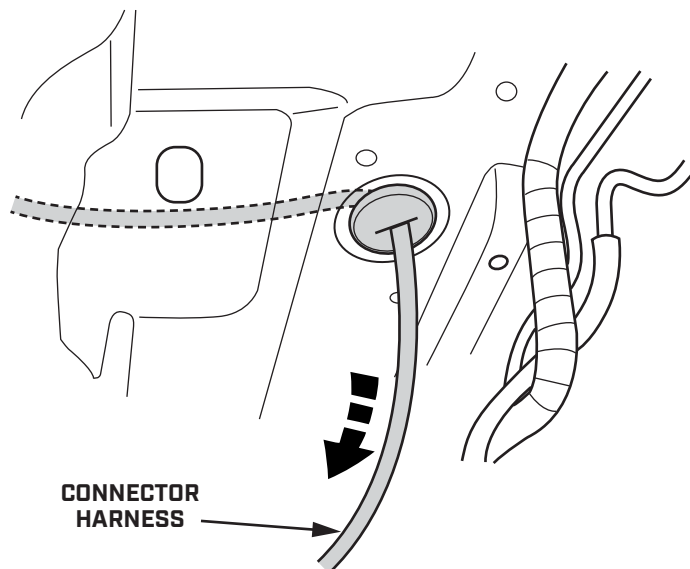


I-SHEET-NA-RAM-1

STEP 44

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

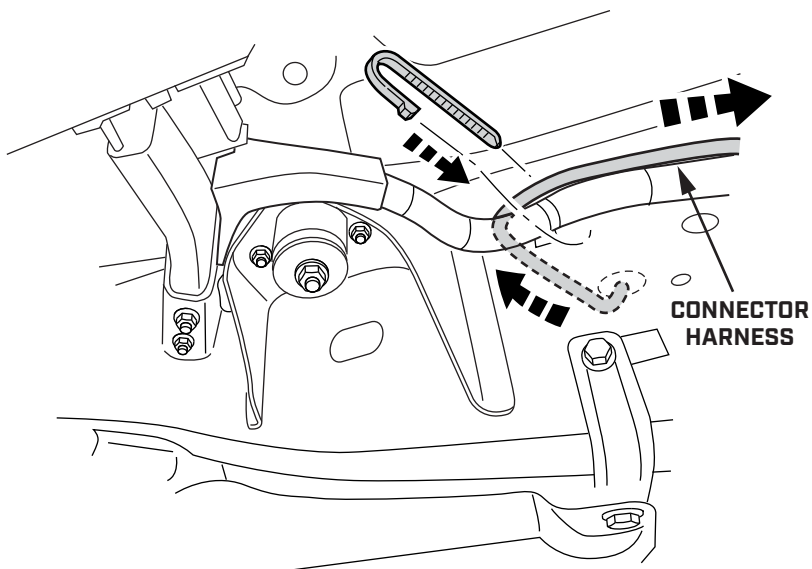
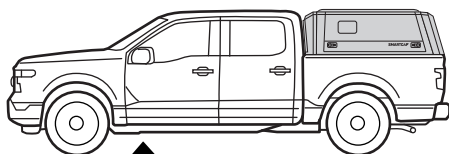
IT IS RECOMMENDED THAT A SEALING COMPOUND BE APPLIED TO THE OPENING FOR WEATHER AND DIRT PROTECTION.



STEP 45

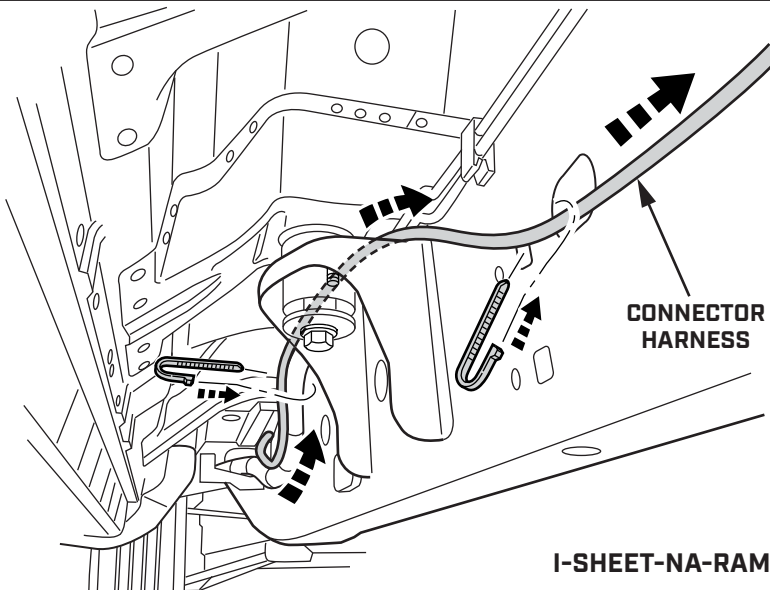
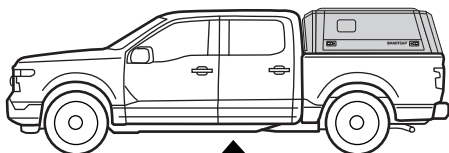
FROM UNDERNEATH THE VEHICLE, BEGIN ROUTING THE CONNECTOR HARNESS OVER THE TOP OF THE DRIVER SIDE FRAME RAIL.

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



STEP 46

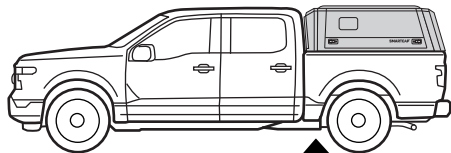
CONTINUE ROUTING THE CONNECTOR HARNESS TOWARDS THE REAR OF THE VEHICLE, SECURING TO THE VEHICLE WITH CABLE TIES WHEN NECESSARY.



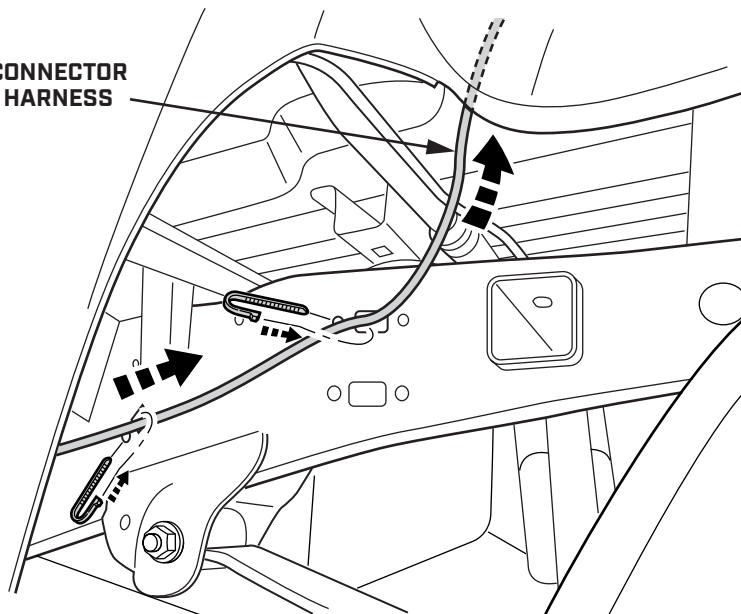
I-SHEET-NA-RAM-1

STEP 47

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

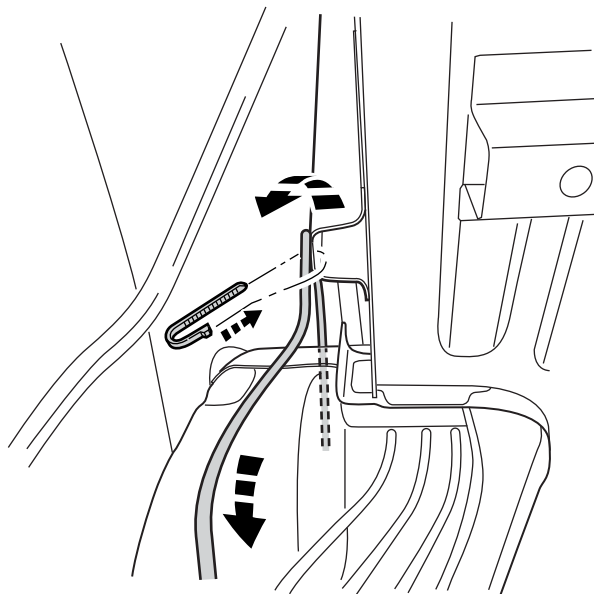
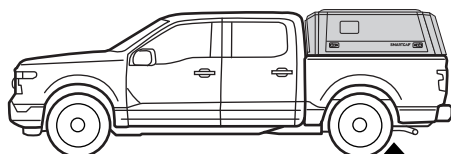


CONNECTOR HARNESS



STEP 48

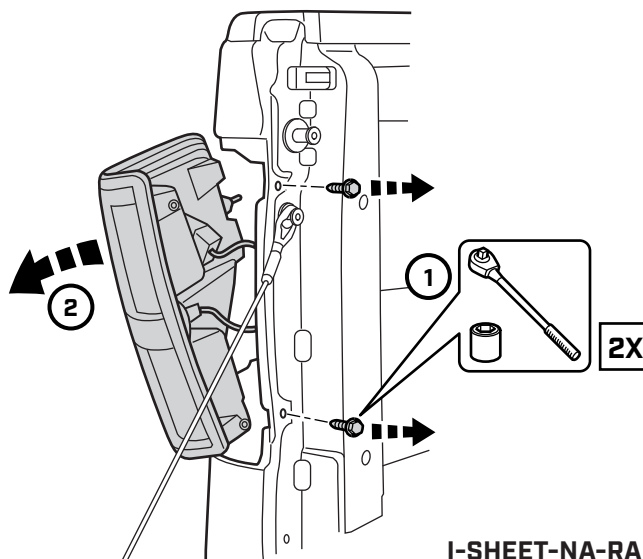
ROUTE THE CONNECTOR HARNESS DOWN OVER THE BACK OF THE REAR WHEEL WELL AND SECURE WITH CABLE TIE AS SHOWN.



STEP 49

REMOVE THE BOLTS HOLDING THE DRIVER SIDE TAILLIGHT ASSEMBLY.

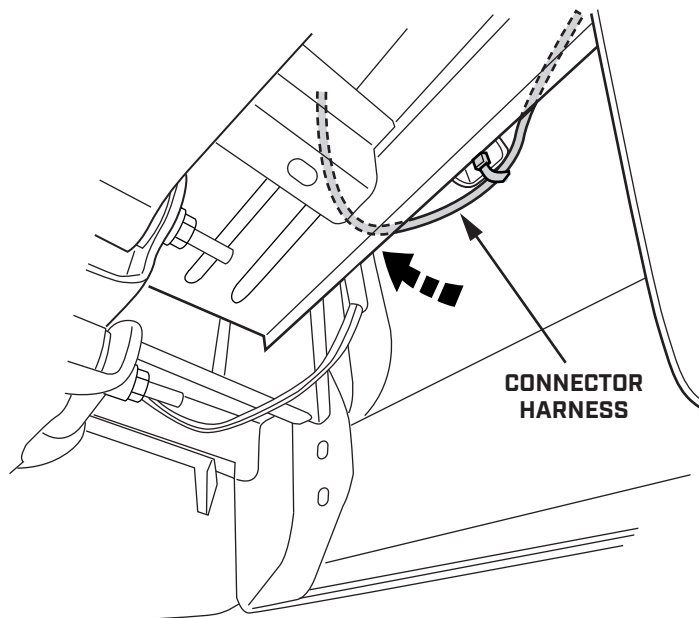
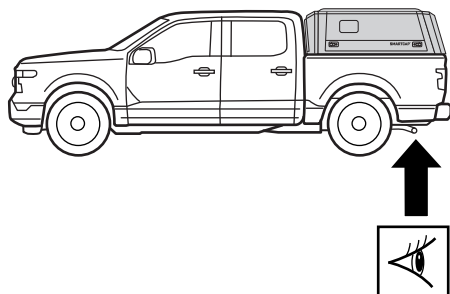
PLACE THE TAILLIGHT CAREFULLY ON THE TAILGATE. DO NOT UNPLUG ANY CONNECTORS.



I-SHEET-NA-RAM-1

STEP 50

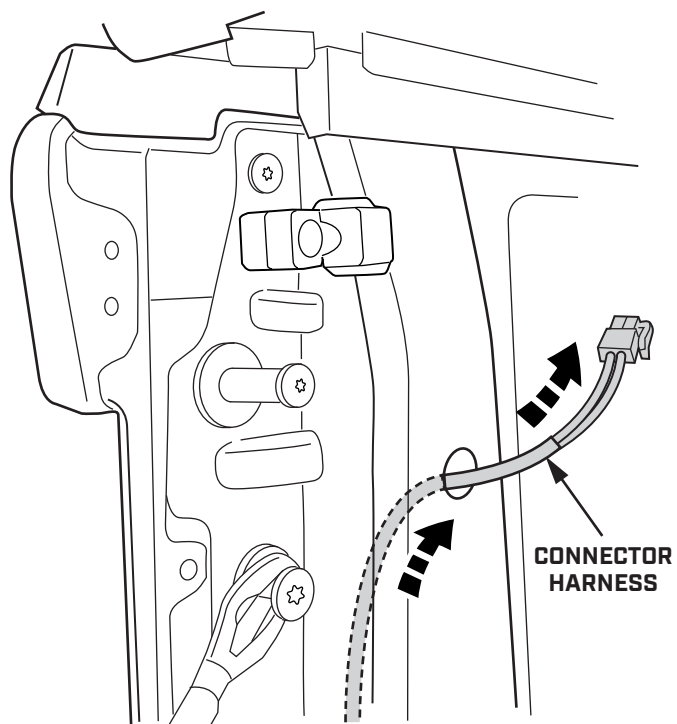
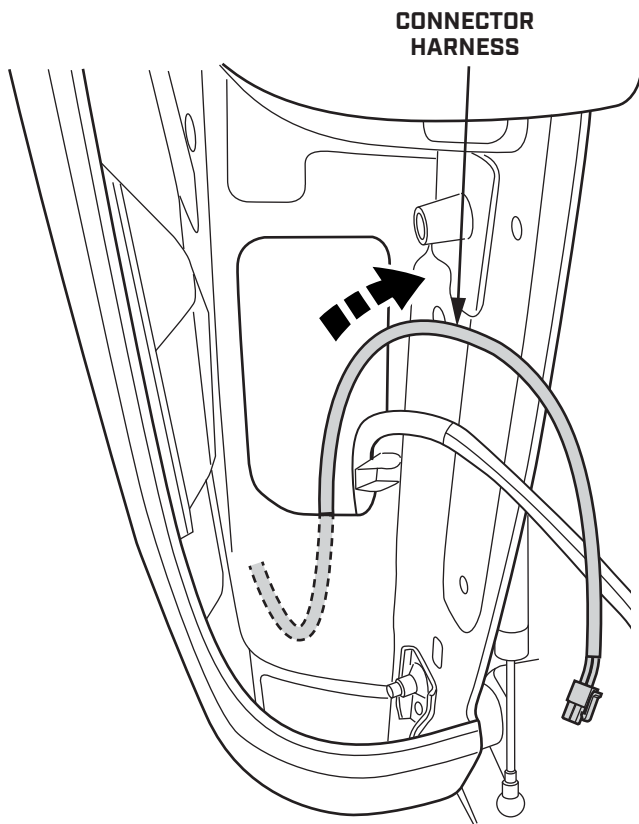
ROUTE THE CONNECTOR HARNESS UP TOWARDS THE TAILLIGHT CAVITY.



STEP 51

CAREFULLY PULL THE CONNECTOR HARNESS OUT THROUGH THE TAILLIGHT CAVITY.

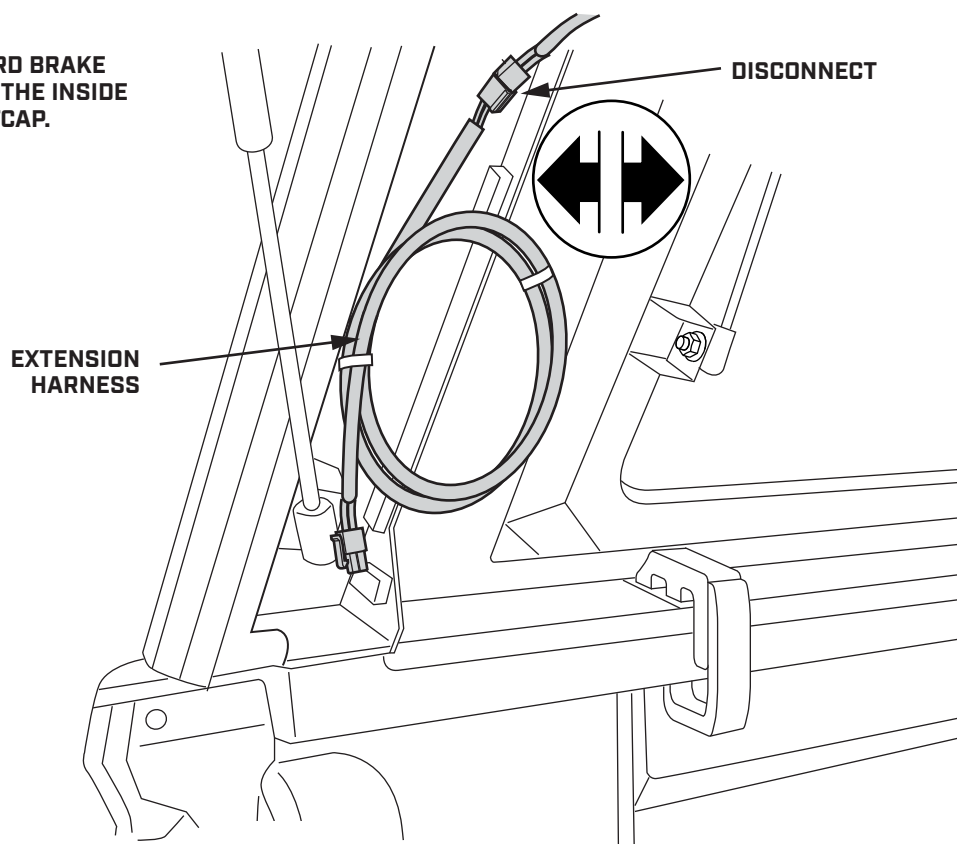
ROUTE THE CONNECTOR HARNESS UP AND OUT THROUGH THE HOLE IN THE SIDE OF THE BED.



I-SHEET-NA-RAM-1

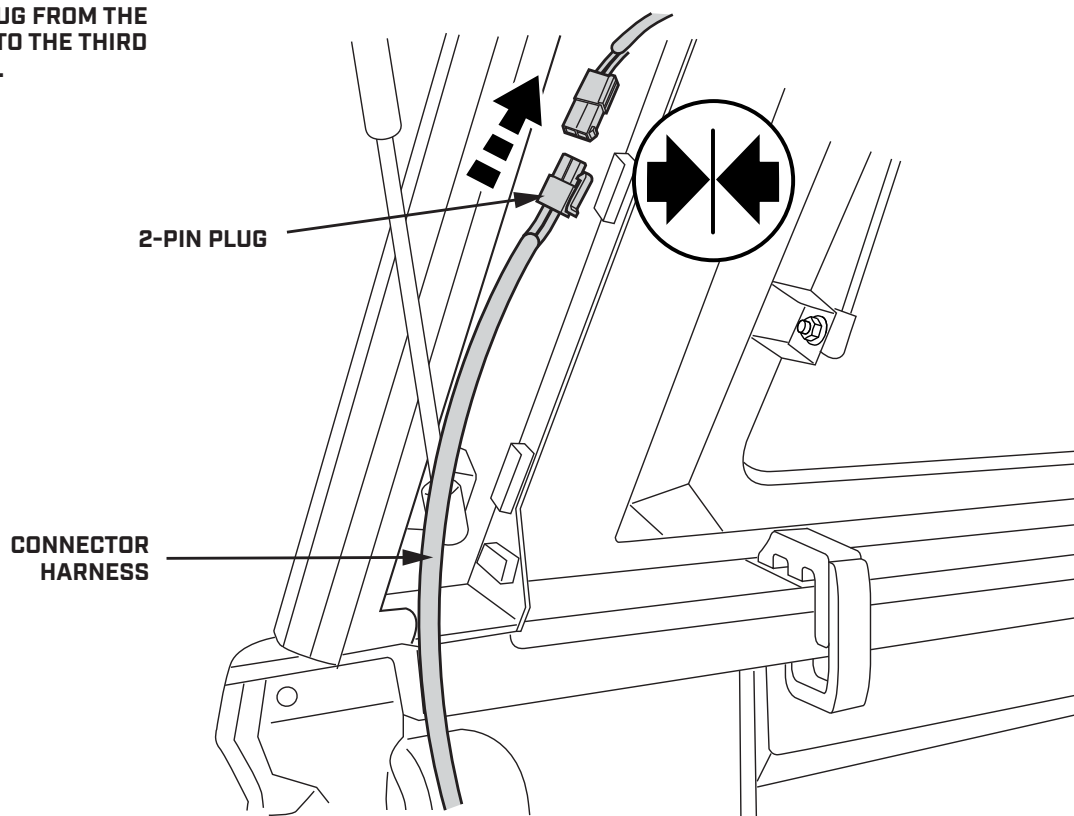
STEP 52

LOCATE AND DISCONNECT THE THIRD BRAKE LIGHT EXTENSION HARNESS FROM THE INSIDE BACK LEFT CORNER OF THE SMARTCAP.



STEP 53

CONNECT THE 2-PIN PLUG FROM THE CONNECTOR HARNESS TO THE THIRD BRAKE LIGHT HARNESS.

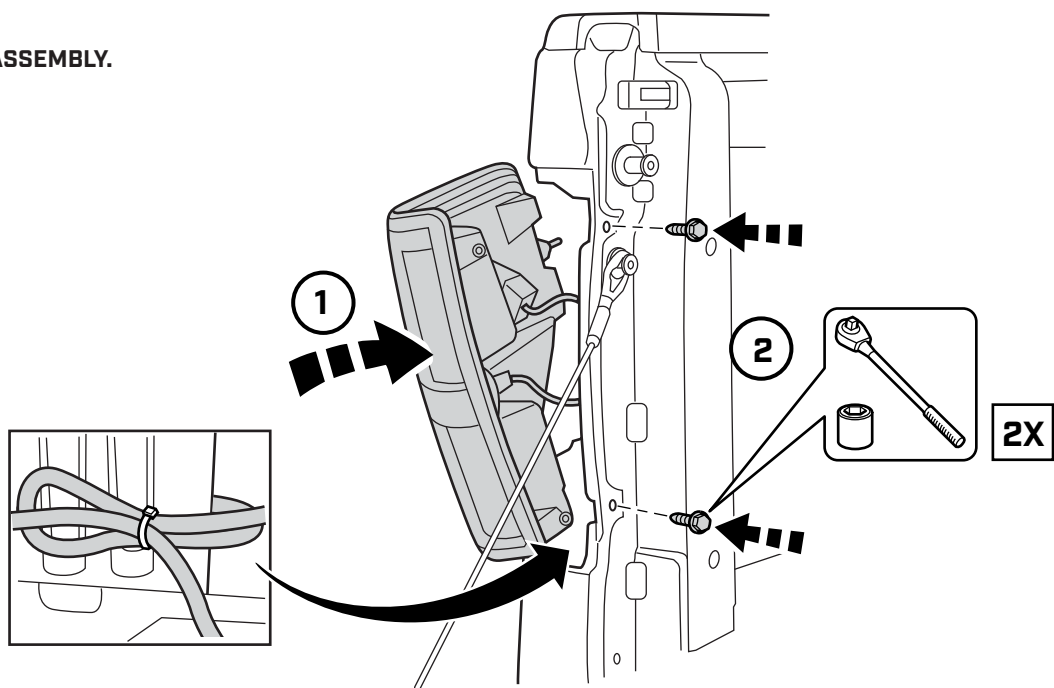


I-SHEET-NA-RAM-1

STEP 54

REINSTALL THE TAILLIGHT ASSEMBLY.

BUNDLE EXTRA
HARNESS LENGTH
IN THE TAIL LIGHT
CAVITY AND SECURE
WITH A CABLE TIE.



STEP 55



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[®]

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

SMARTCAP.COM

SUPPORT.NA@SMARTCAP.COM - NORTH AMERICA

SUPPORT.SA@SMARTCAP.COM - REST OF WORLD



I-SHEET-NA-RAM-1