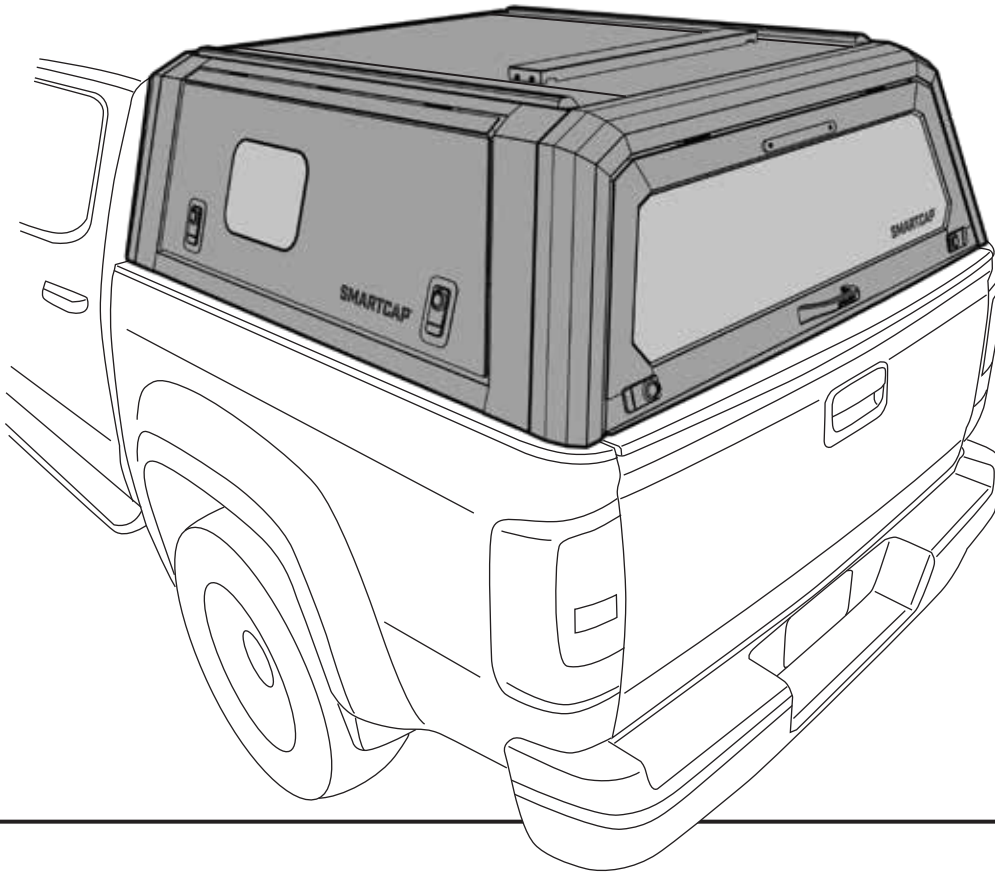


SMARTCAP®

INSTRUCTION GUIDE

TOYOTA TUNDRA

2022-CURRENT (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.**

SUPPORT.NA@SMARTCAP.COM - NORTH AMERICA
SUPPORT.SA@SMARTCAP.COM - REST OF WORLD

SMARTCAP.COM



I-SHEET-NA-TU4

TOOLS REQUIRED



IMPORTANT

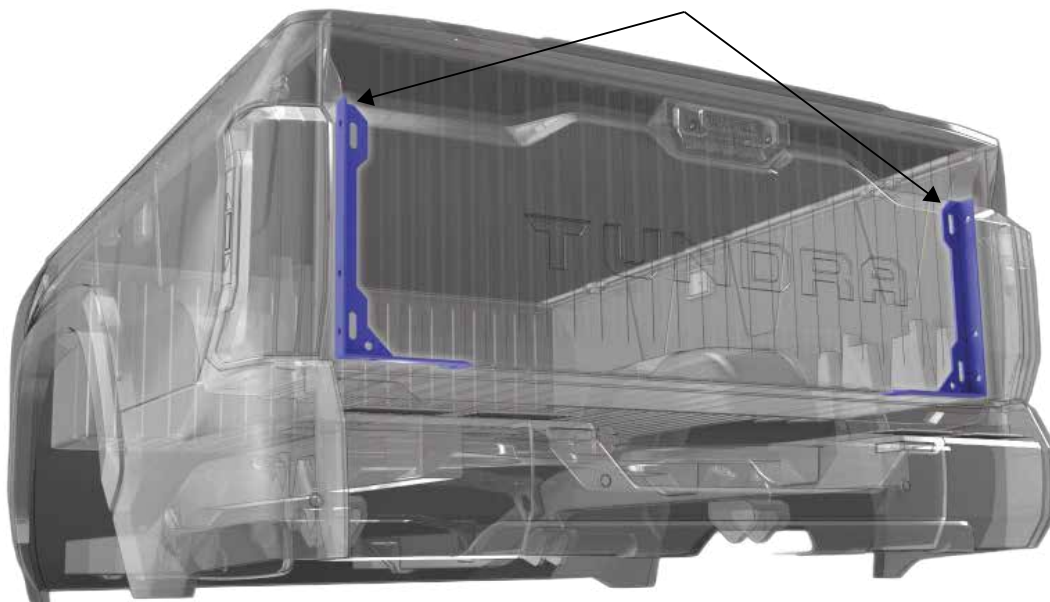
- ▼ USE ONLY THE TOOLS RECOMMENDED ABOVE.
- ▼ USE ONLY THE HARDWARE PROVIDED IN THIS KIT.
- ▼ ASSISTANCE WILL BE NEEDED FOR THIS INSTALLATION. FOUR PEOPLE ARE RECOMMENDED TO LIFT THE SMARTCAP ONTO THE VEHICLE.
- ▼ AVOID PINCHING OR CRUSHING HANDS AND FINGERS.
- ▼ INSPECT ALL KIT COMPONENTS FOR DAMAGE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



IMPORTANT WARRANTY NOTICE

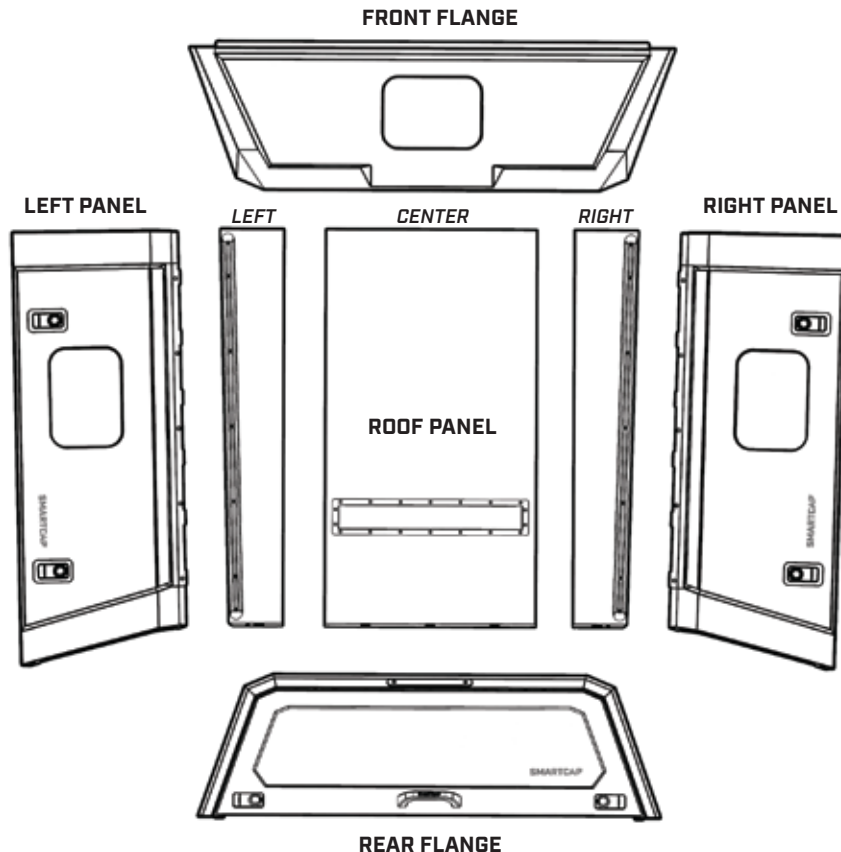
THE 2022+ TOYOTA TUNDRA REQUIRES BED STIFFENERS/J-BRACES TO BE INSTALLED FOR ALL BED RAIL MOUNTED ACCESSORIES. FAILURE TO INSTALL THESE MAY AFFECT THE STRUCTURAL INTEGRITY OF THE TUNDRA'S BED WALLS. THIS NOT ONLY MAY DAMAGE YOUR TRUCK BED, BUT MAY ALSO LEAD TO SMARTCAP REAR FLANGE WELDING FAILURES AND OTHER CRITICAL DAMAGE. PLEASE NOTE, DAMAGE TO YOUR SMARTCAP THAT IS DIRECTLY ATTRIBUTABLE TO NOT HAVING BED STIFFENERS/J-BRACES INSTALLED WILL NOT BE COVERED UNDER THE SMARTCAP 3-YEAR WARRANTY. SMARTCAP DOES NOT OFFER BED STIFFENERS, BUT AN INTERNET SEARCH WILL SHOW MULTIPLE AVAILABLE OPTIONS.

BED STIFFENER BRACKETS (NOT INCLUDED WITH PURCHASE)



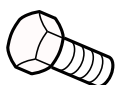
COMPONENTS & ASSEMBLY HARDWARE

COMPONENTS



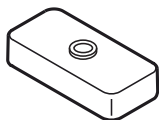
FITMENT KIT

M6 BOLT



42X

FASTENER
BLOCK CLAMP



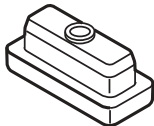
42X

M6 LOCK
WASHER



42X

FASTENER
BLOCK



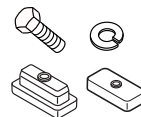
42X

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

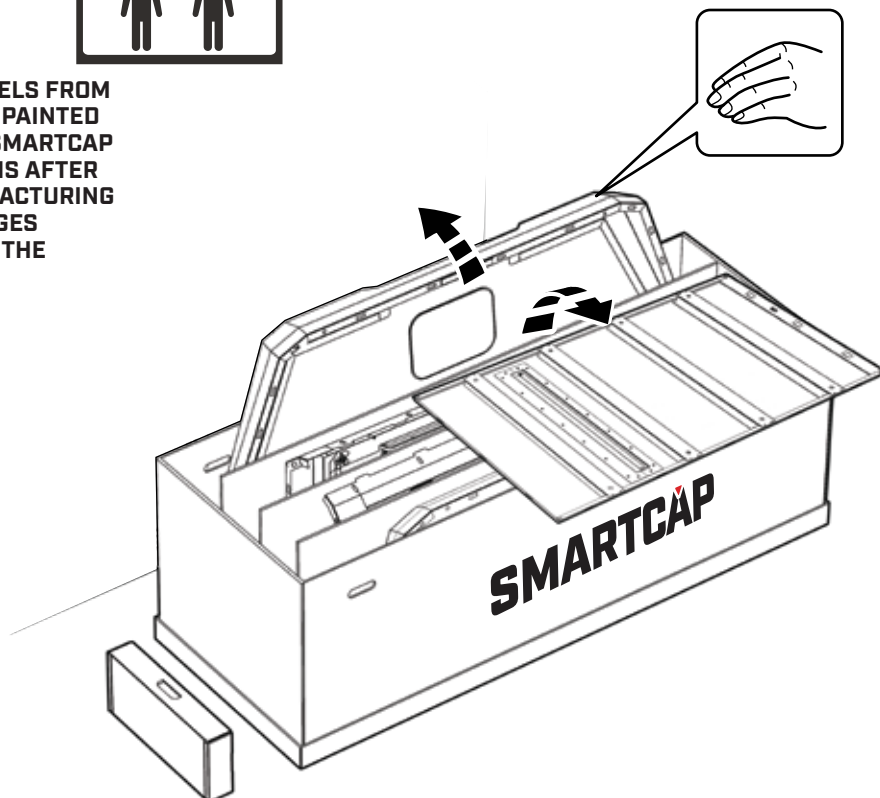
STANDARD BED

STEP 1



IMPORTANT

- ▼ BE SURE TO REMOVE ALL SEVEN 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.

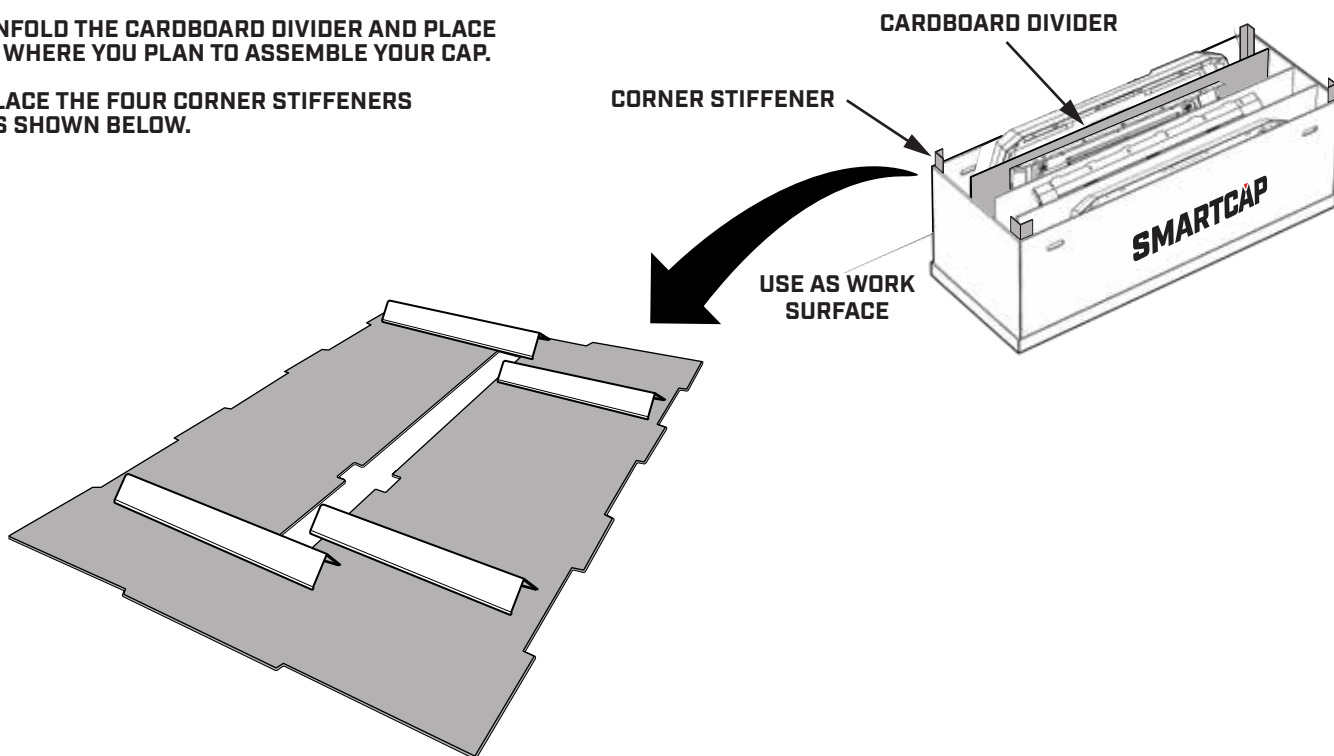


STEP 2

REMOVE THE FOUR CORNER STIFFENERS AND ONE OF THE CARDBOARD DIVIDERS TO BE USED AS A PROTECTIVE SURFACE DURING ASSEMBLY.

UNFOLD THE CARDBOARD DIVIDER AND PLACE IT WHERE YOU PLAN TO ASSEMBLE YOUR CAP.

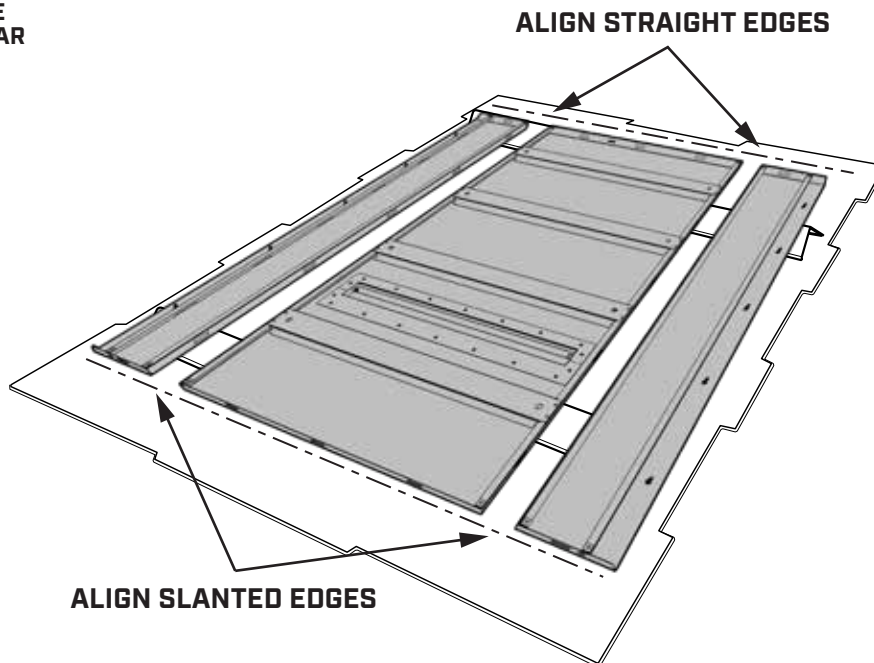
PLACE THE FOUR CORNER STIFFENERS AS SHOWN BELOW.



STEP 3

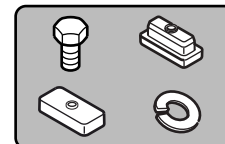
PLACE THE ROOF PANELS ON TOP OF THE CORNER STIFFENERS, WITH THE BOTTOM OF THE ROOF PANELS FACING UP.

ALIGN THE PANELS SO THAT THE PROFILE OF THE FRONT AND REAR EDGES MATCH.

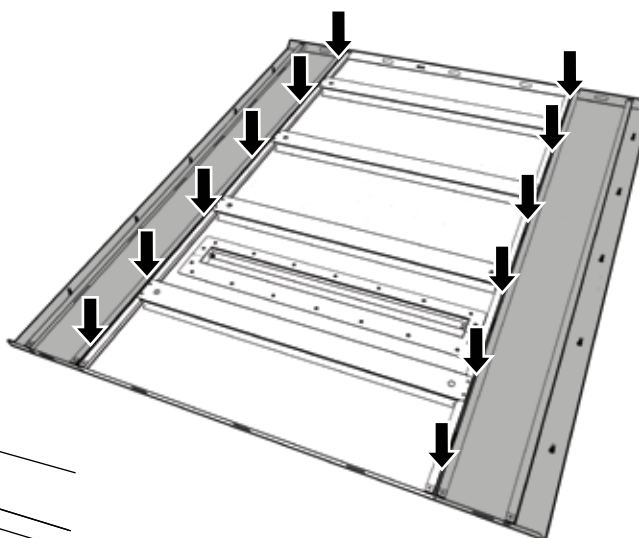


STEP 4

ASSEMBLE THE FASTENER BLOCKS TO THE ROOF PANELS USING A TORQUE WRENCH AND 10MM SOCKET TO 3.7 FT. LBS [5 NEWTON METERS].



MAKE SURE ROOF PANELS ARE LEVEL



SHORT BED 12X

STANDARD BED 14X



M6 BOLT

BLOCK CLAMP

M6 LOCK WASHER

FASTENER BLOCK

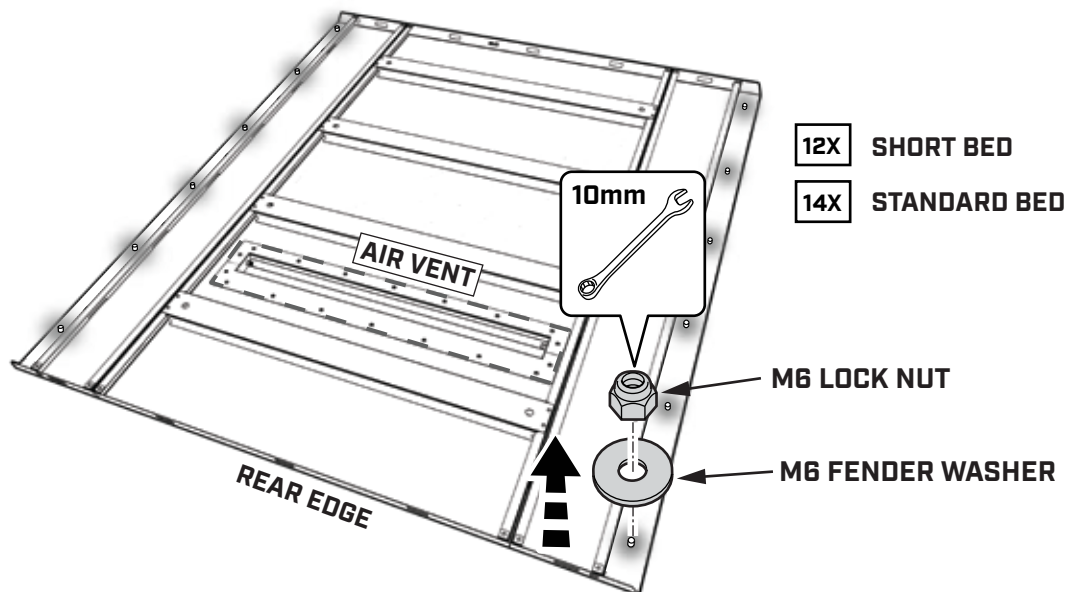
[3.7 ft. lbs]/[5 Nm]

STEP 5

USE A 10MM COMBINATION WRENCH TO REMOVE THE LOCK NUTS AND FENDER WASHERS FROM THE ROOF BOLTS AND SAVE FOR REUSE.



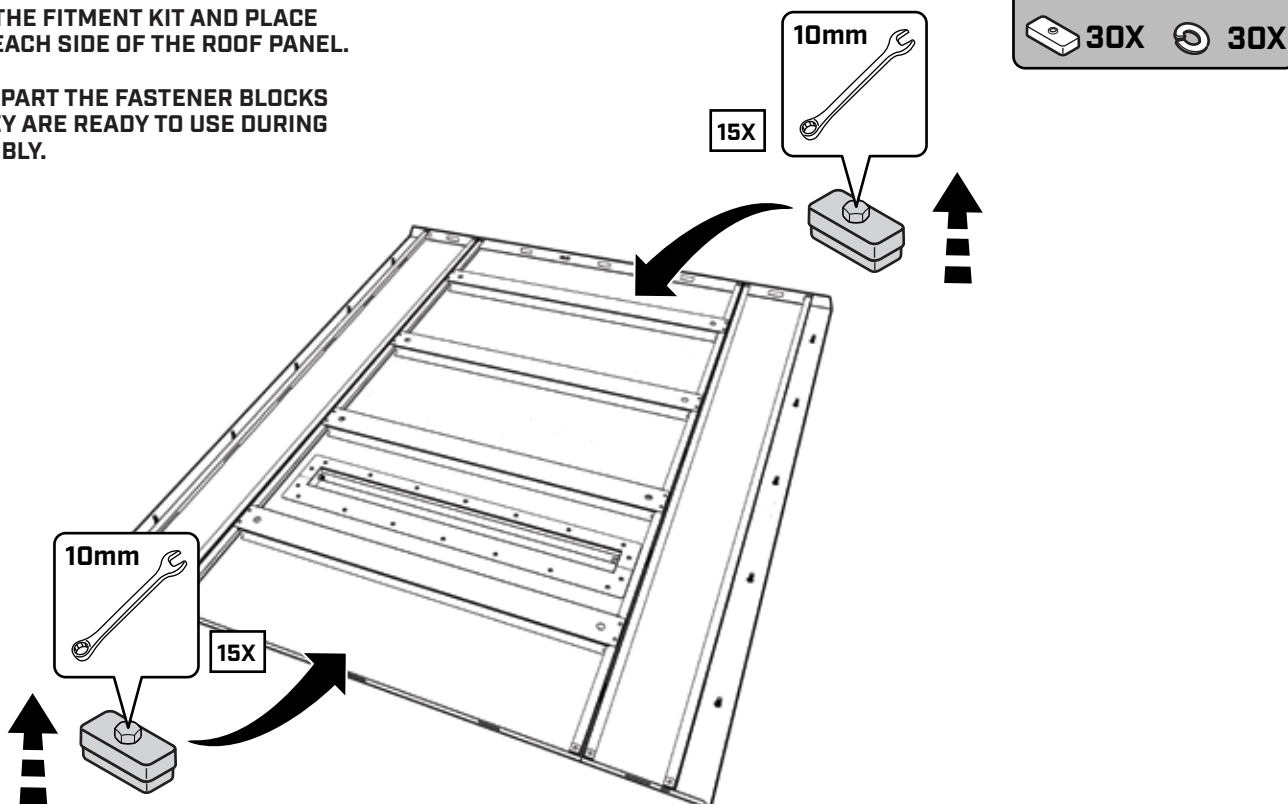
AIR VENT INDICATES REAR



STEP 6

RETRIEVE THE FASTENER BLOCKS FROM THE FITMENT KIT AND PLACE 15 ON EACH SIDE OF THE ROOF PANEL.

TAKE APART THE FASTENER BLOCKS SO THEY ARE READY TO USE DURING ASSEMBLY.



STEP 7

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

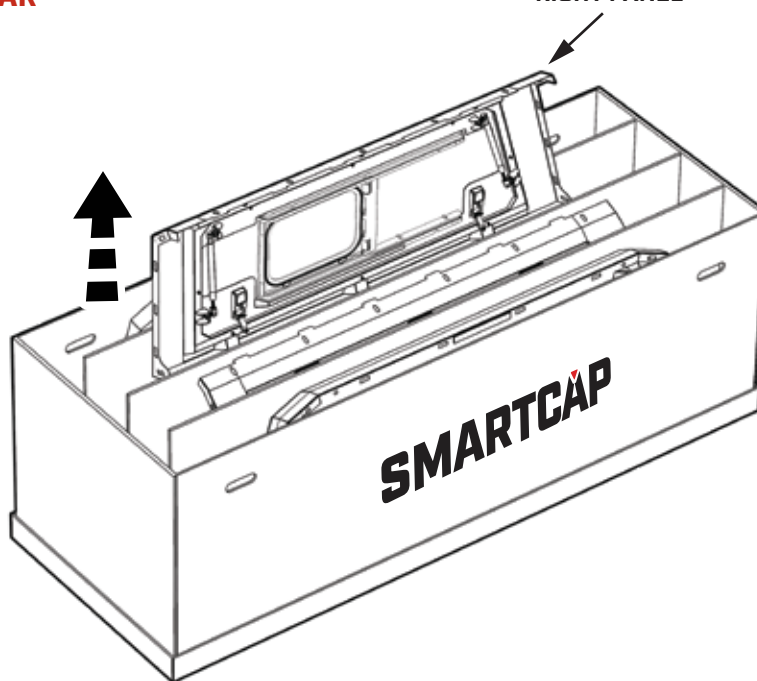
2 PERSON JOB



SLANTED EDGE INDICATES REAR



RIGHT PANEL



STEP 8

INSERT PANEL TABS INTO THE 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



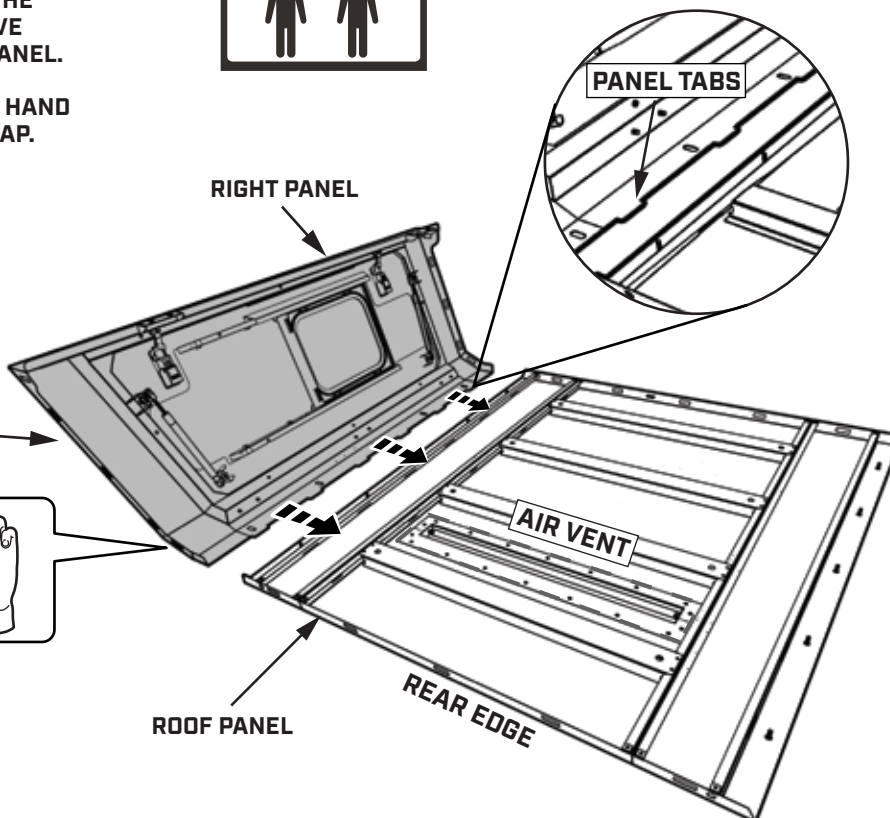
RIGHT PANEL

PANEL TABS

AIR VENT

ROOF PANEL

REAR EDGE

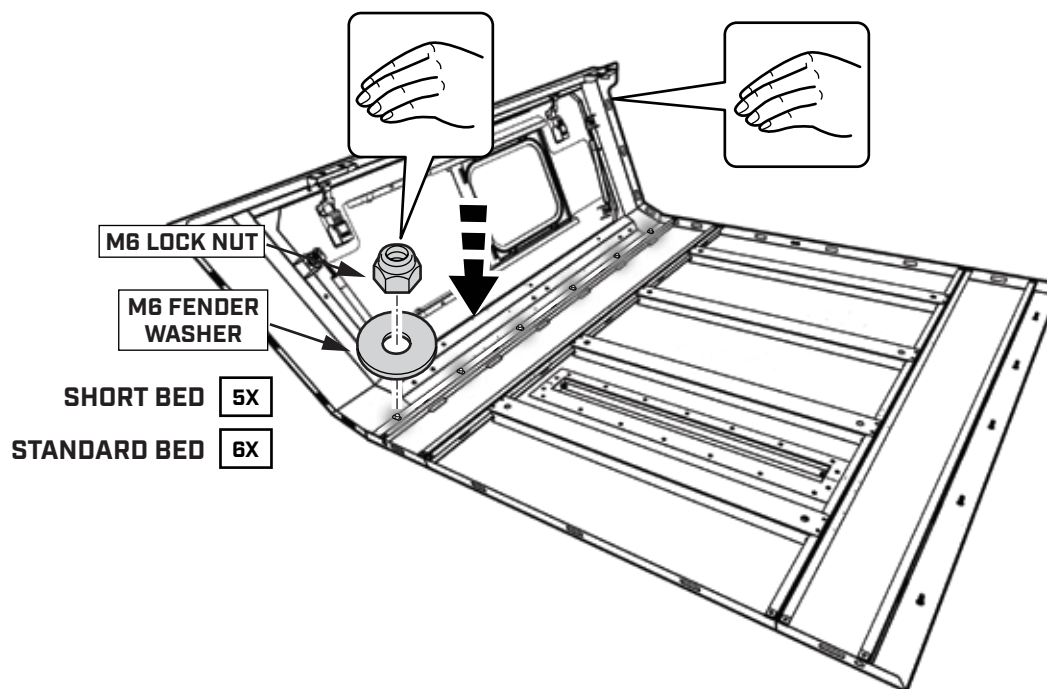


STEP 9

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



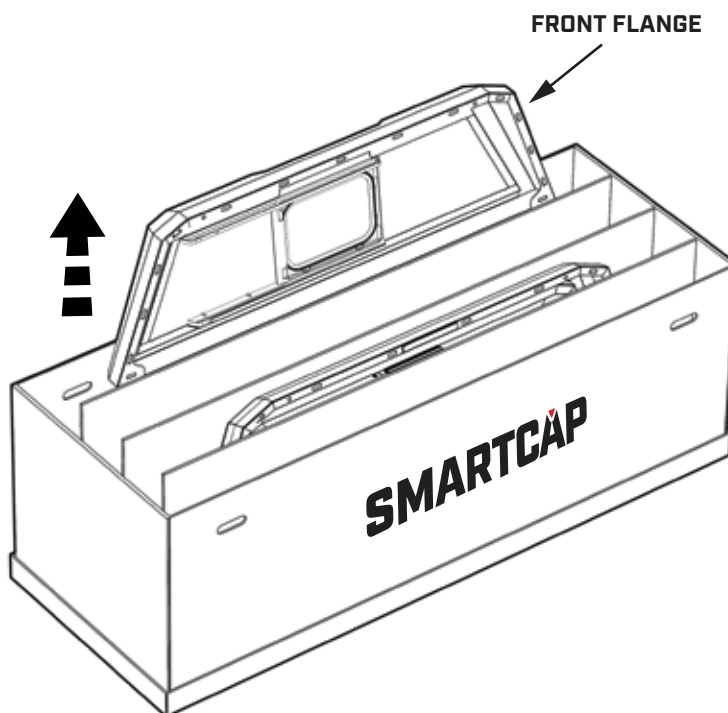
**SUPPORT RIGHT PANEL UNTIL
ASSEMBLED TO FRONT FLANGE**



STEP 10

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

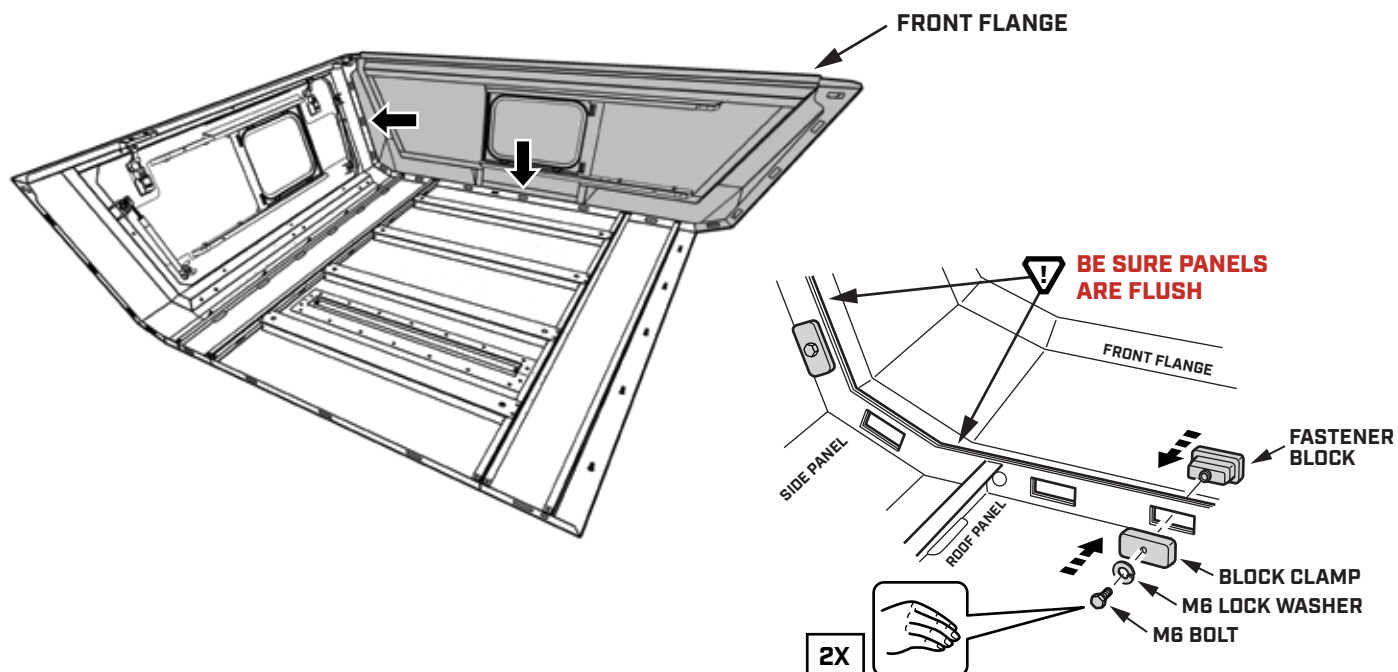
2 PERSON JOB



STEP 11

PLACE FRONT FLANGE AS SHOWN BELOW.

HAND TIGHTEN TWO FASTENER BLOCKS AT THE INDICATED LOCATIONS TO SUPPORT THE RIGHT PANEL AND FRONT FLANGE.

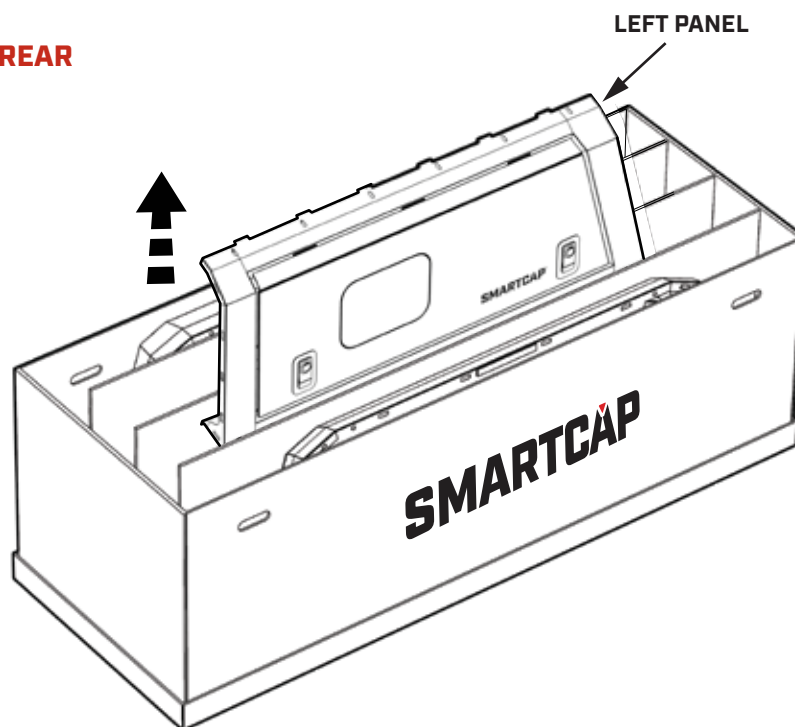


STEP 12

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



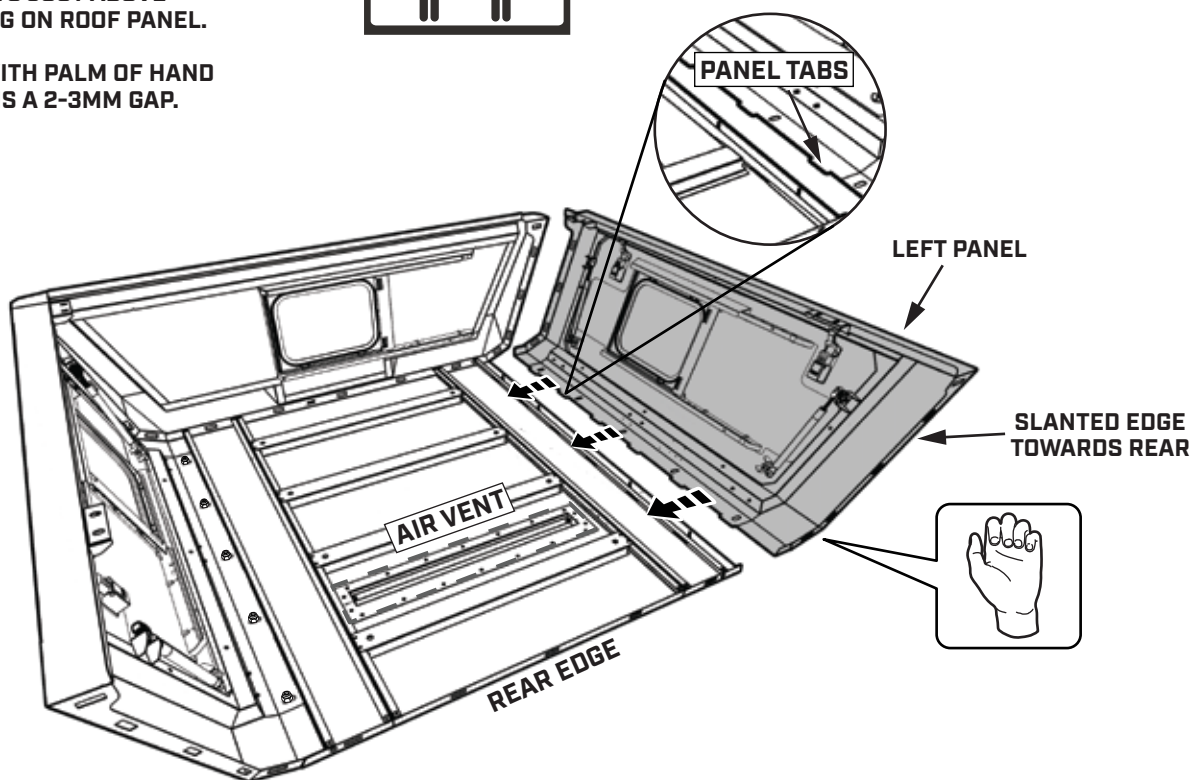
SLANTED EDGE INDICATES REAR



STEP 13

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

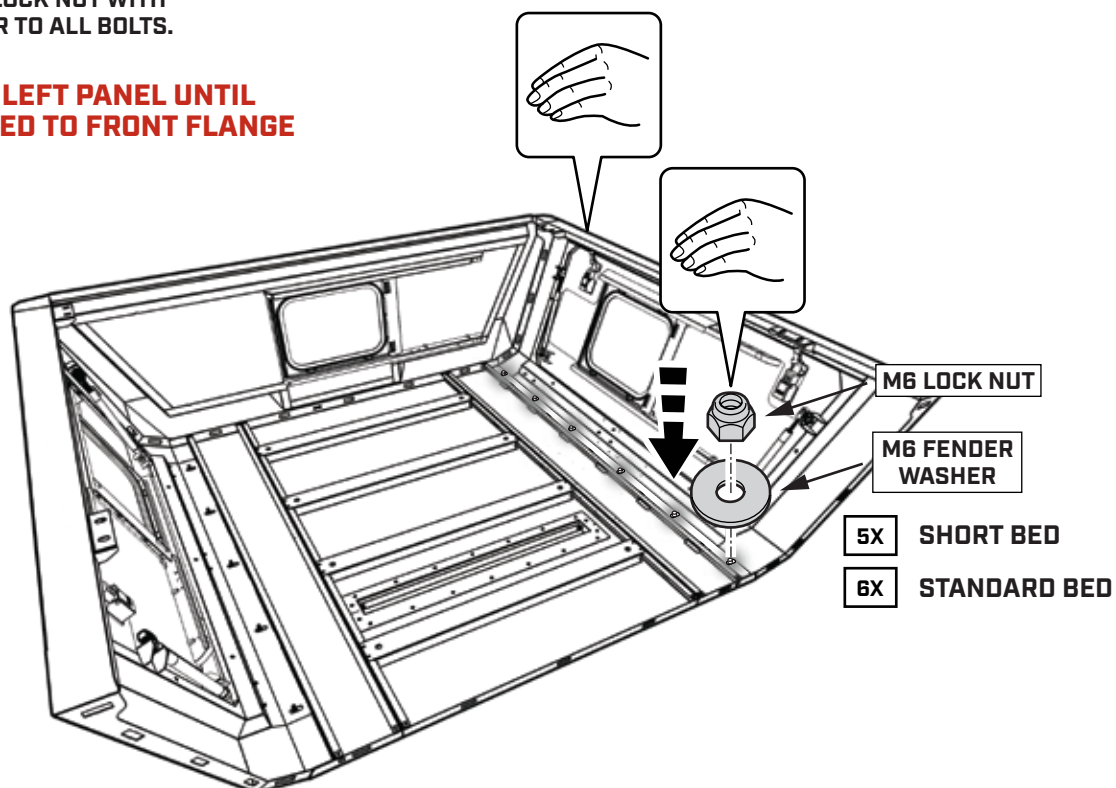
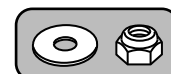
TAP FIRMLY WITH PALM OF HAND UNTIL THERE IS A 2-3MM GAP.



STEP 14

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

 **SUPPORT LEFT PANEL UNTIL ASSEMBLED TO FRONT FLANGE**



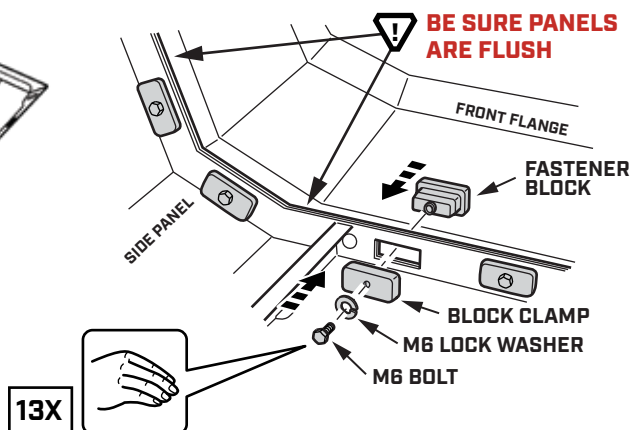
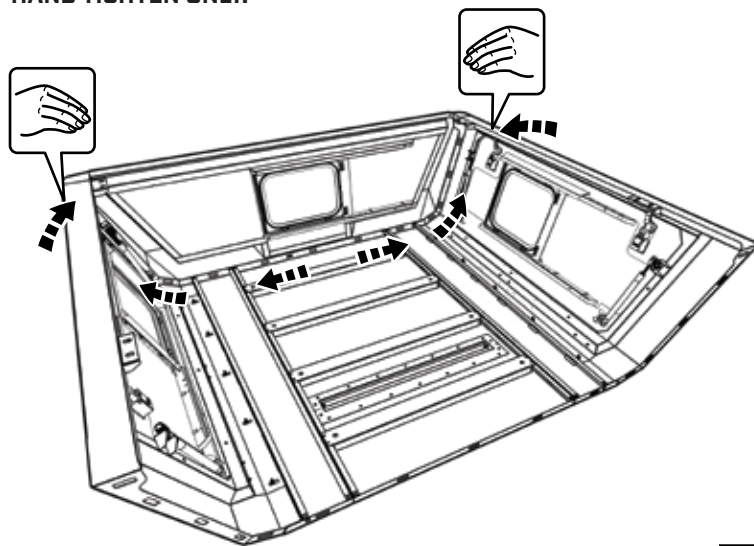
STEP 15

INSTALL HARDWARE ALONG FRONT FLANGE WITH BOLT ON INSIDE.

START AT CENTER OF THE FRONT FLANGE AND WORK YOUR WAY OUTWARDS.

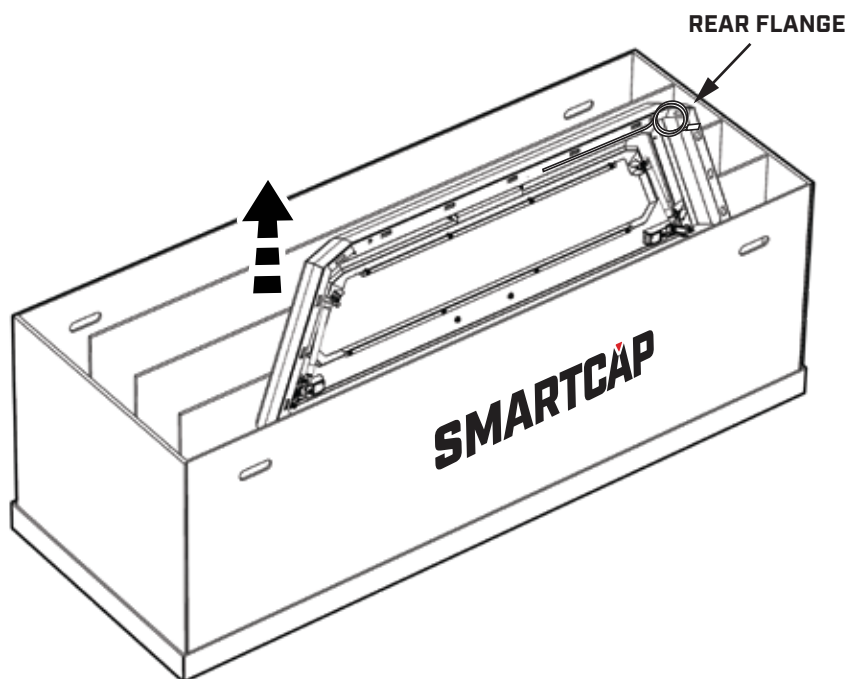
ADJUST LEFT AND RIGHT PANELS TO ALIGN THE FASTENER BLOCK HOLES.

HAND TIGHTEN ONLY.



STEP 16

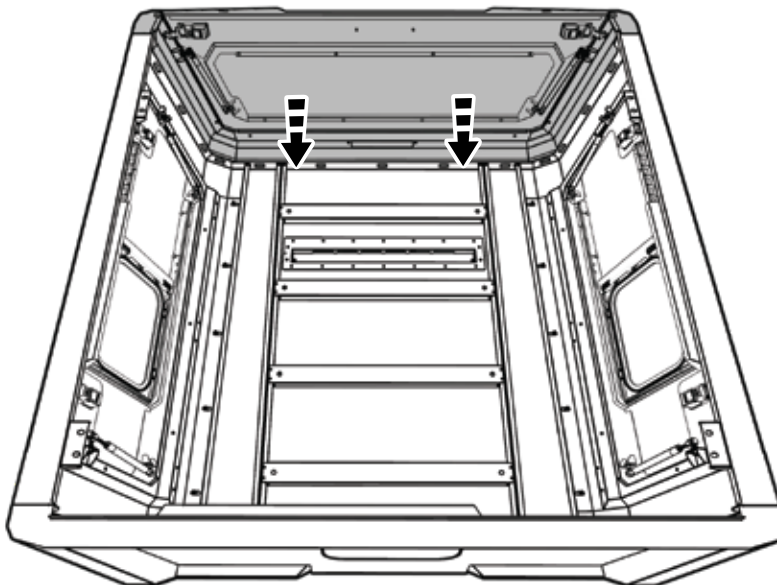
LOCATE THE REAR FLANGE IN THE SMARTCAP PACKAGE AND BRING IT TO YOUR WORK AREA.



STEP 17

PLACE REAR FLANGE AS SHOWN BELOW.

2 PERSON JOB



STEP 18

INSTALL HARDWARE ALONG REAR FLANGE WITH BOLT ON INSIDE.

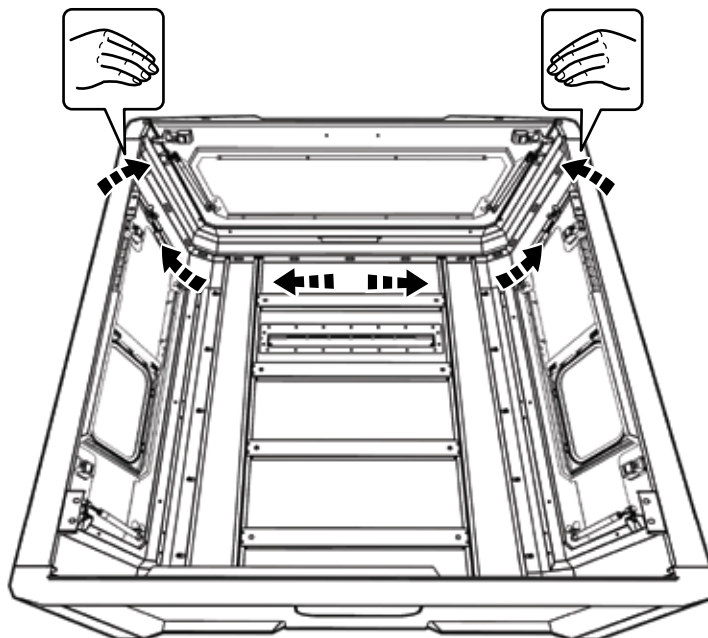
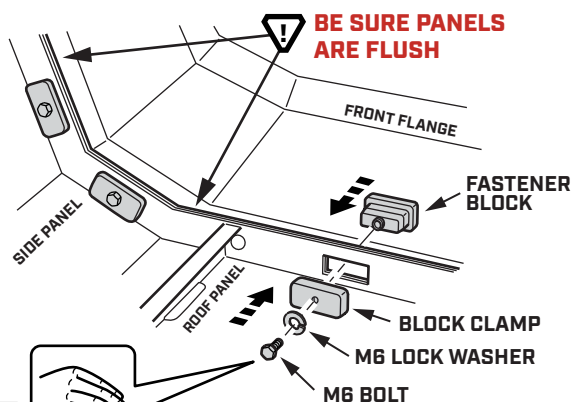
2 PERSON JOB



START AT CENTER OF THE REAR FLANGE AND WORK YOUR WAY OUTWARDS.

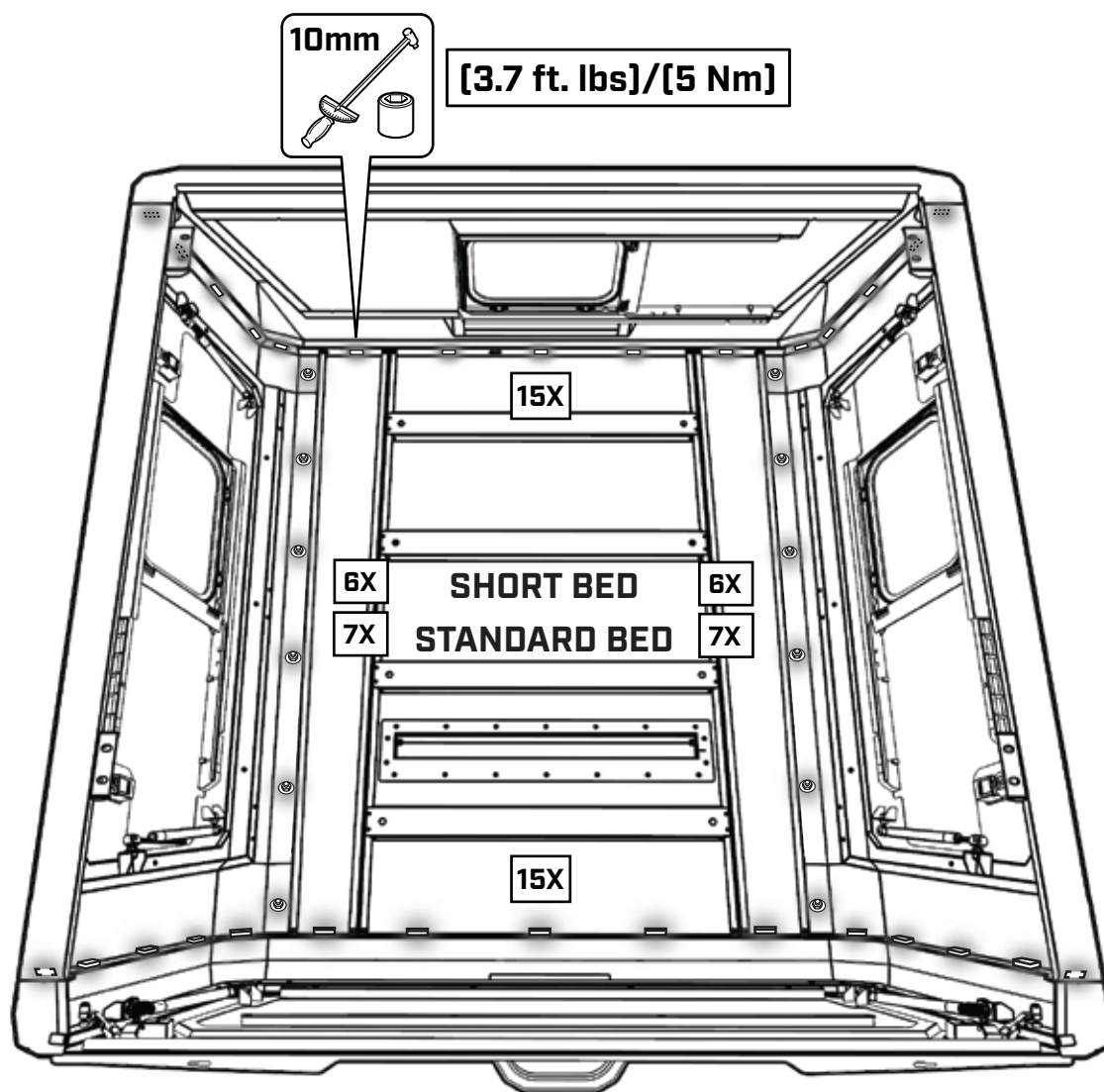
ADJUST LEFT AND RIGHT PANELS TO ALIGN THE FASTENER BLOCK HOLES.

HAND TIGHTEN ONLY.



STEP 19

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



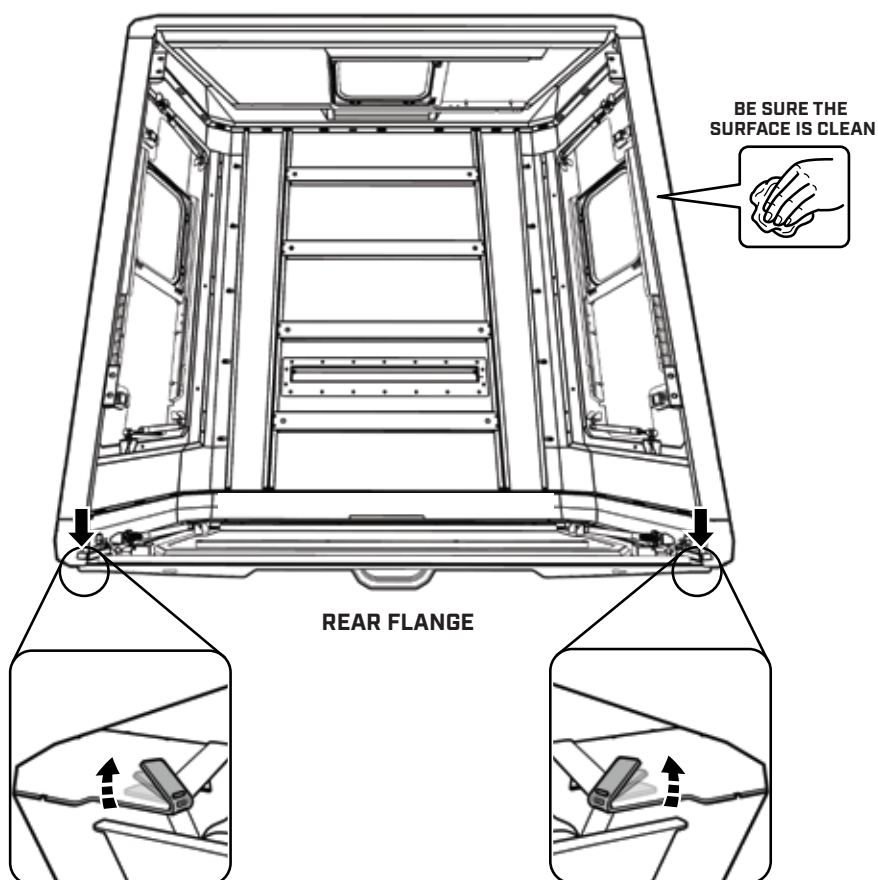
STEP 20

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.



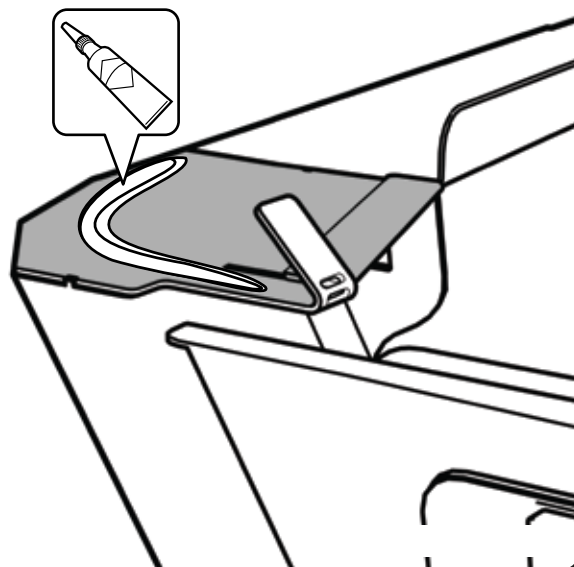
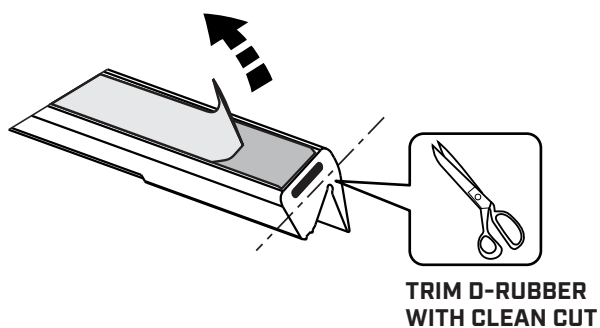
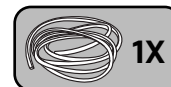
LOCATE RETENTION TABS



STEP 21

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

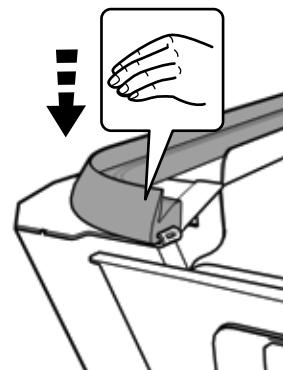
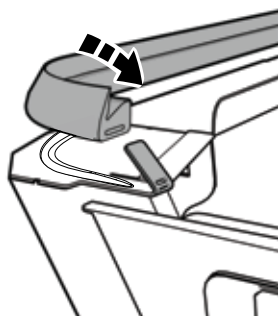
APPLY 2-3 INCHES OF GEL SUPER GLUE NEAR THE RETENTION TABS, ALONG THE BOTTOM EDGE OF THE REAR FLANGE



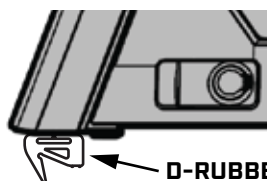
STEP 22

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.



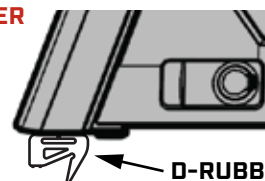
CORRECT D-RUBBER ORIENTATION



REAR FLANGE

D-RUBBER

INCORRECT D-RUBBER ORIENTATION



REAR FLANGE

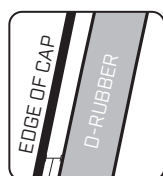
D-RUBBER

STEP 23

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

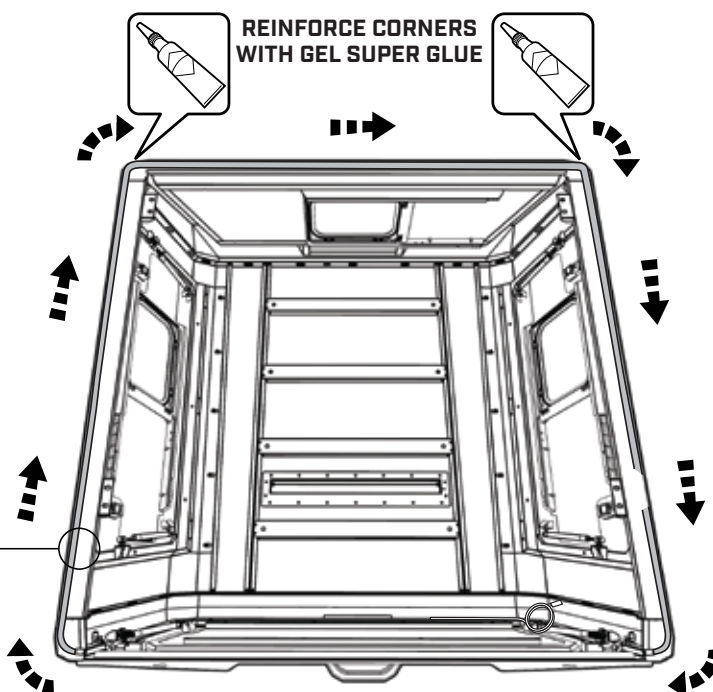
START FROM ONE CORNER AND WORK YOUR WAY AROUND THE CAP TO ENSURE PROPER PLACEMENT AND ALIGNMENT.

APPLY 2-3 INCHES OF GEL SUPER GLUE AT THE FRONT CORNERS OF THE SMARTCAP, ALONG THE BOTTOM EDGE OF THE FRONT FLANGE.



1/8 INCH FROM EDGE

REINFORCE CORNERS WITH GEL SUPER GLUE



STEP 24

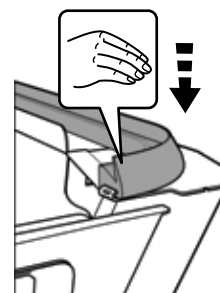
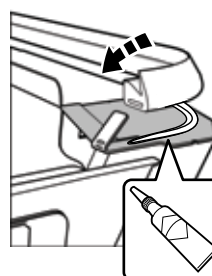
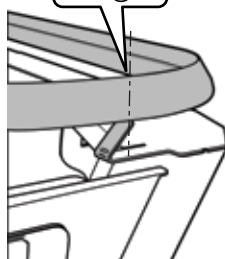
TRIM ANY EXCESS D-RUBBER BEYOND THE EDGE FOR A NEAT FINISH.

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.

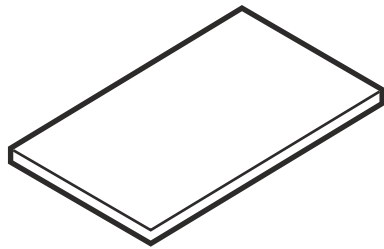


TRIM D-RUBBER WITH CLEAN CUT



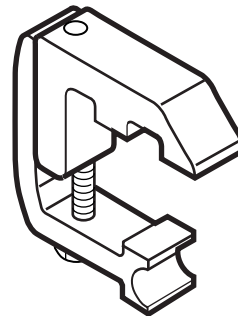
INSTALLATION HARDWARE

THIN RUBBER PAD



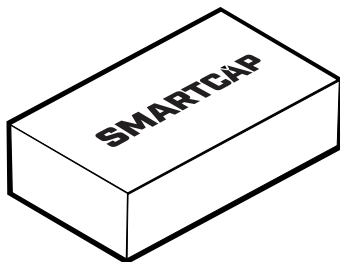
6X

MOUNTING CLAMP



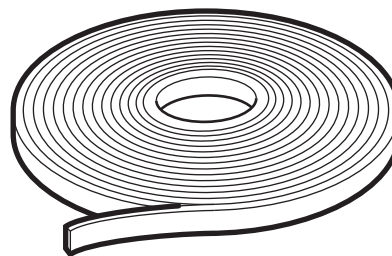
6X

THICK RUBBER PAD



8X

FOAM SEAL TAPE



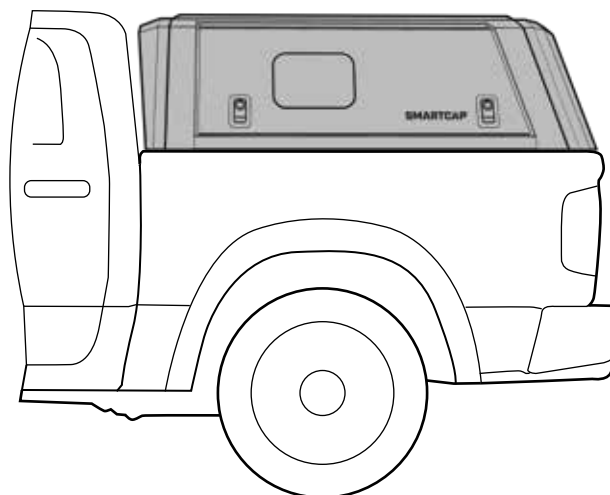
1X

VEHICLE INSTALLATION



IMPORTANT

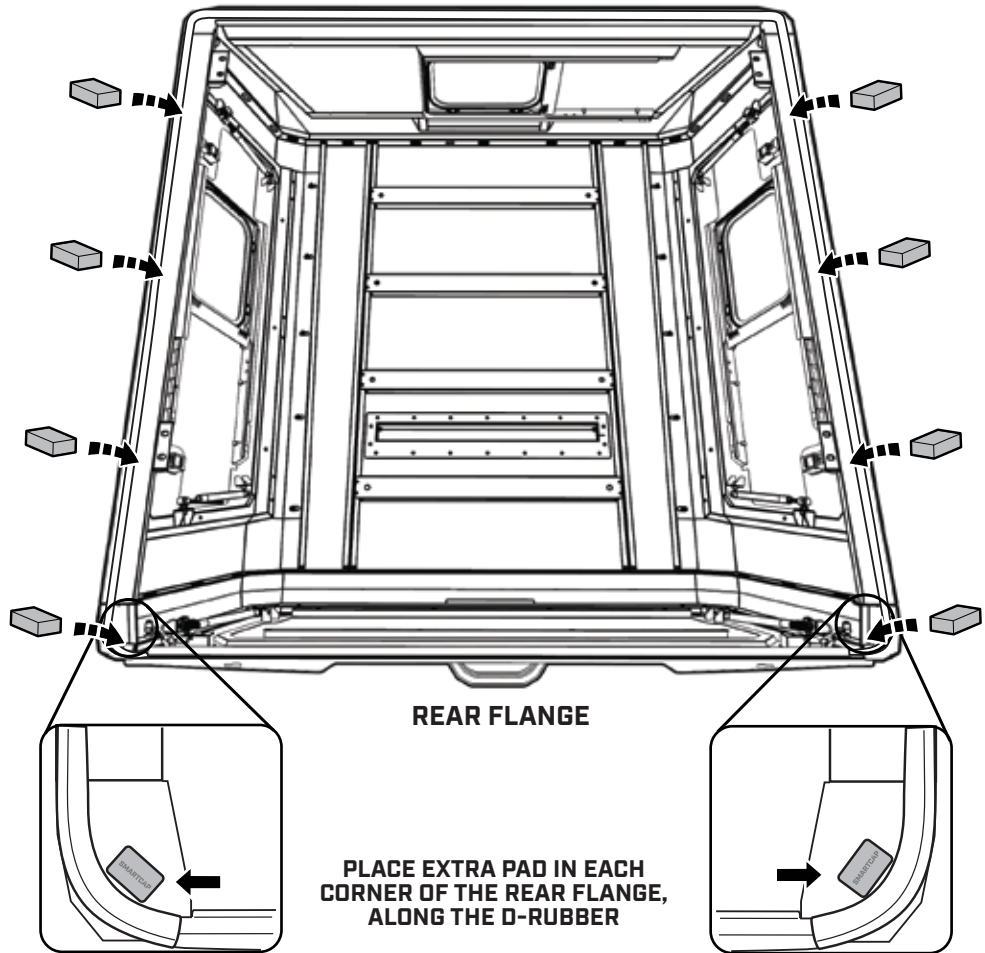
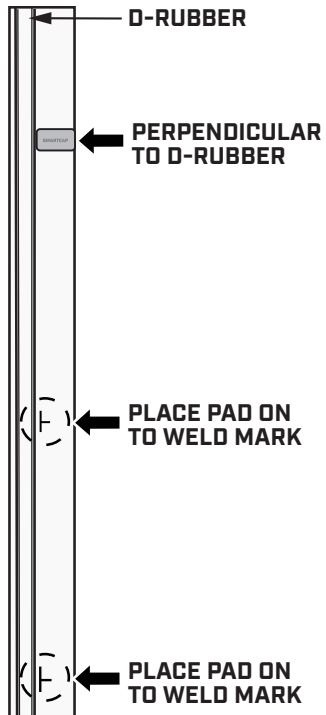
- ▼ ASSISTANCE WILL BE NEEDED FOR THIS INSTALLATION. FOUR PEOPLE ARE RECOMMENDED TO LIFT THE SMARTCAP ONTO THE VEHICLE.
- ▼ AVOID PINCHING OR CRUSHING HANDS AND FINGERS.
- ▼ READ THROUGH THE ENTIRE PROCEDURE BEFORE STARTING.



STEP 25

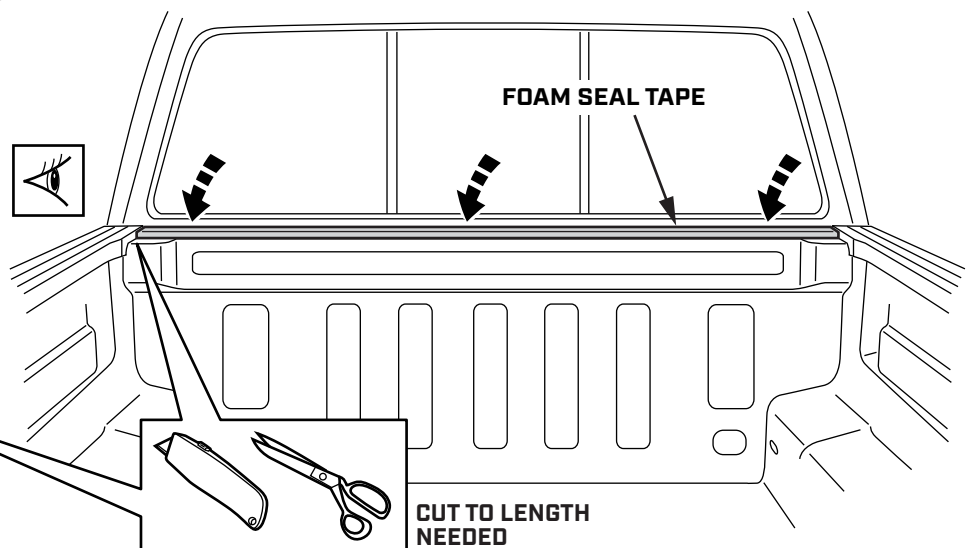
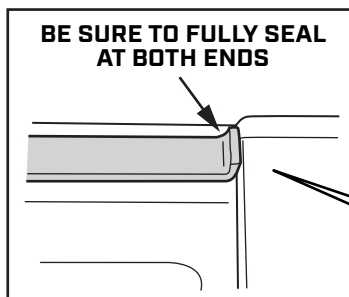
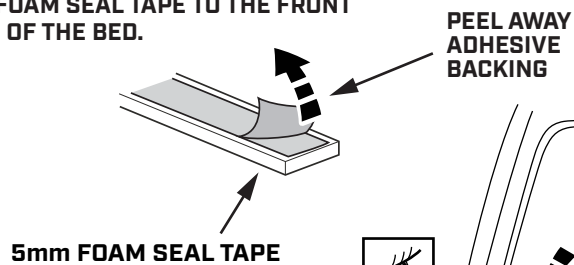
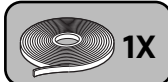
REMOVE THE ADHESIVE BACKING FROM THE THICK RUBBER PAD.

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



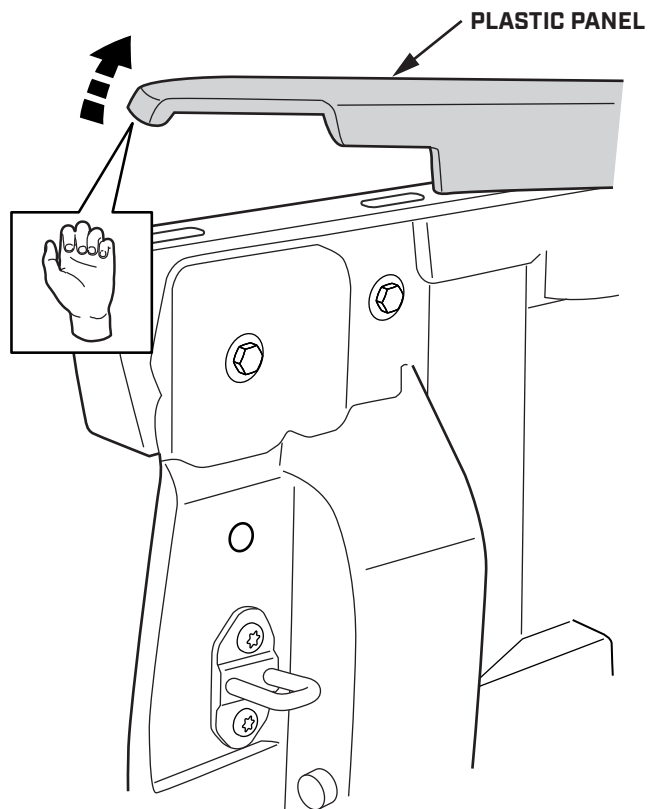
STEP 26

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



STEP 27

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



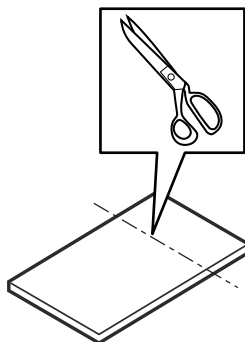
STEP 28

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



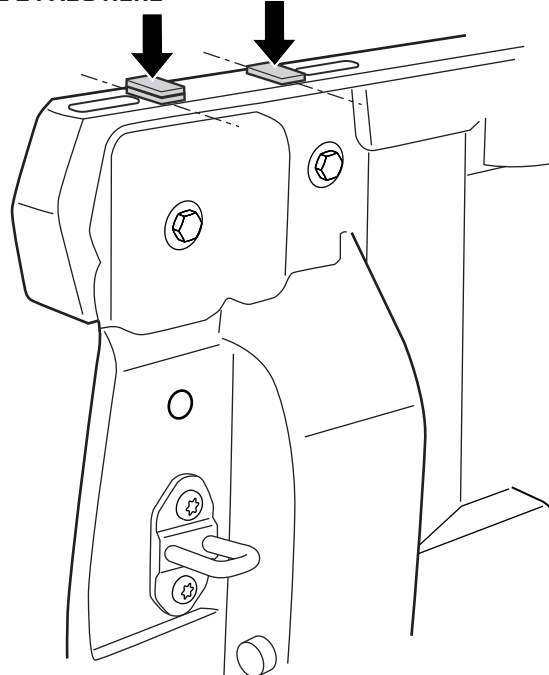
TRIM A 1/2" INCH STRIP FROM EACH THIN RUBBER PAD.

6X



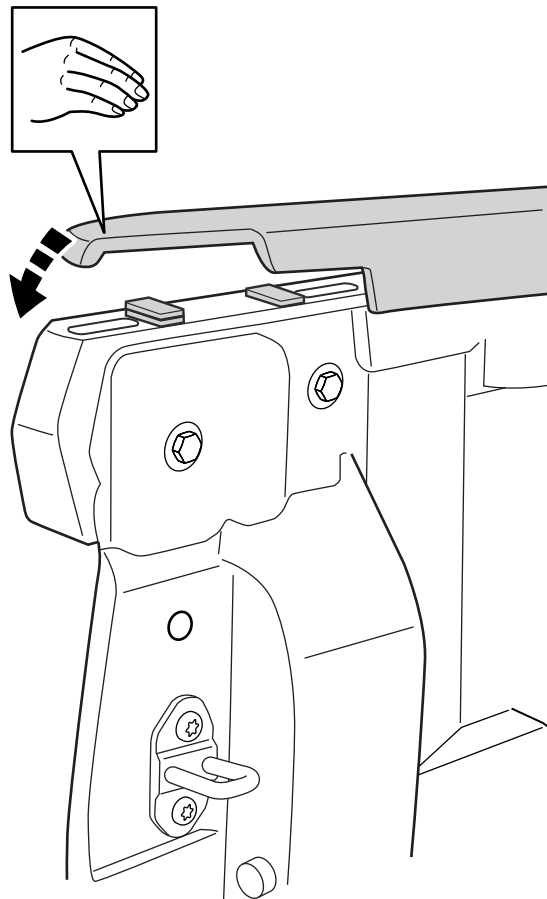
PLACE 2 PADS HERE

PLACE 1 PAD HERE



STEP 29

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

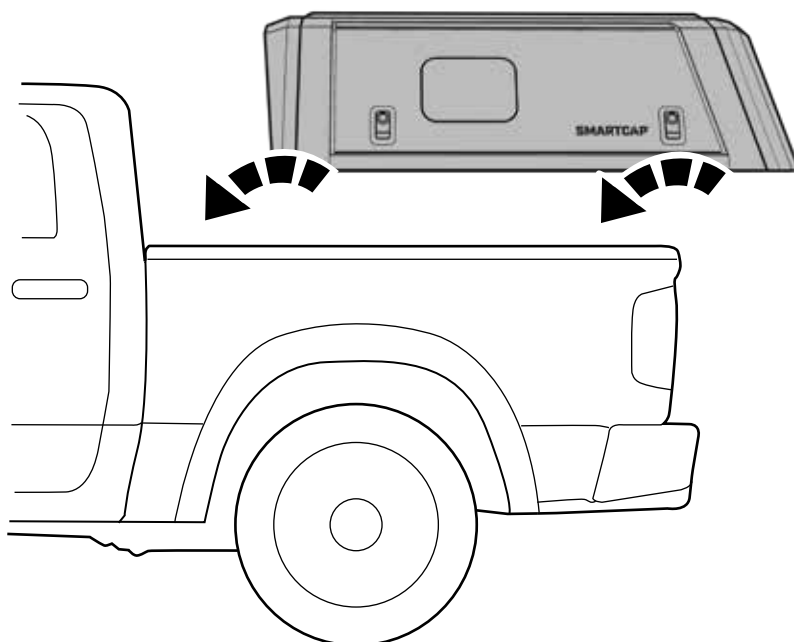


STEP 30

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.

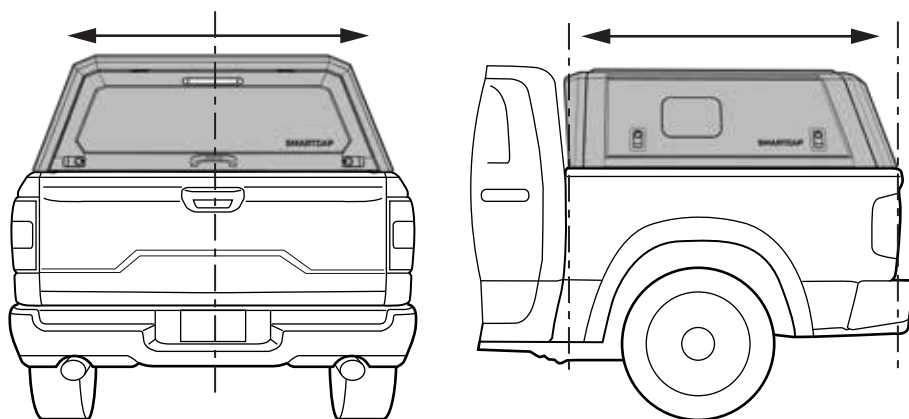
4 PERSON JOB



STEP 31

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

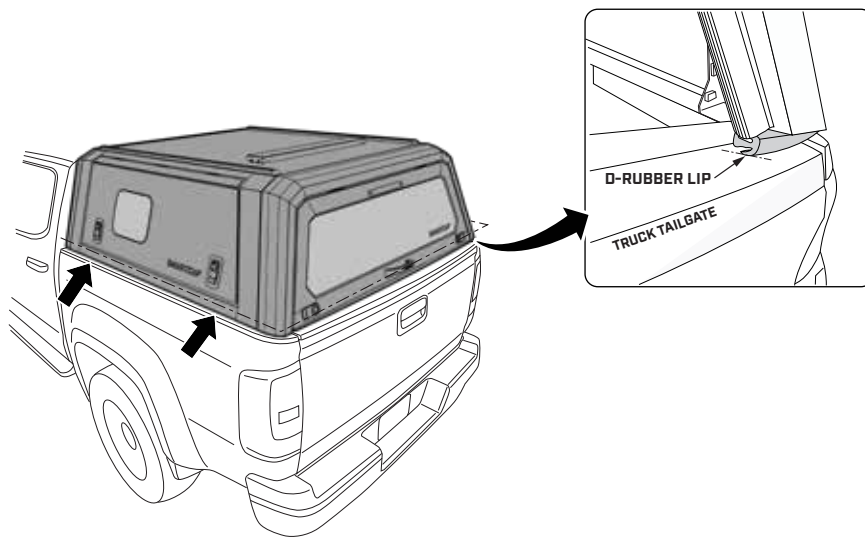
IT'S IMPORTANT THAT THE SMARTCAP IS NOT PUSHED TOO FAR FORWARD, LEAVING A GAP BETWEEN THE SMARTCAP AND THE CAB.



STEP 32

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 WITH EASE WHEN OPENING AND CLOSING.



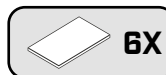
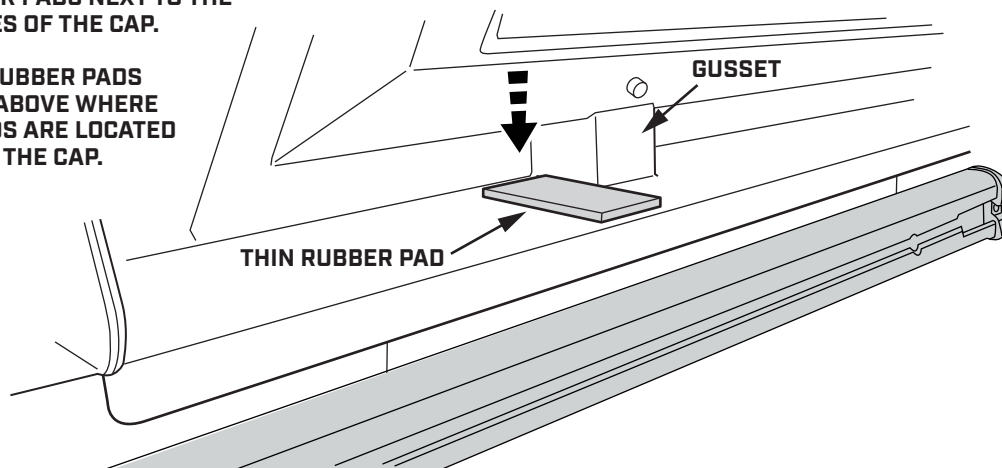
**YOU MAY NOTICE THAT THE SEAL ON THE SLIDING PORTAL WINDOW MIGHT APPEAR WRINKLED. THIS IS DUE TO THE ANTI-SLIP COATING AND IS NOT A CAUSE FOR CONCERN.*

STEP 33

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

MAKE SURE THE THIN RUBBER PADS ARE PLACED DIRECTLY ABOVE WHERE THE THICK RUBBER PADS ARE LOCATED ALONG THE BOTTOM OF THE CAP.

3 PADS PER SIDE



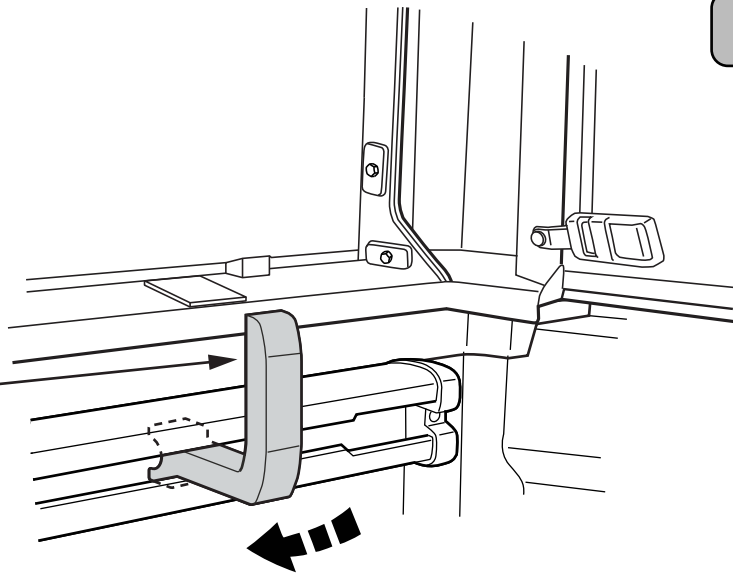
STEP 34

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

LOWER CLAMP ARM



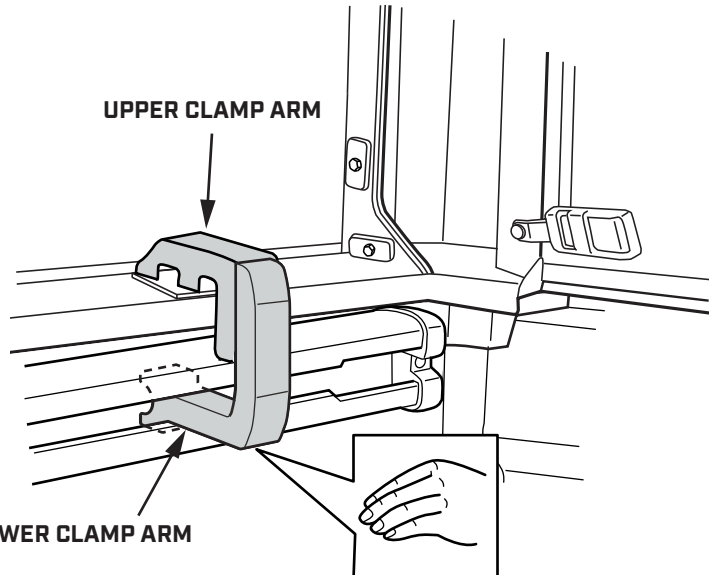
STEP 35

REASSEMBLE UPPER AND LOWER
CLAMP ARMS.

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

UPPER CLAMP ARM

LOWER CLAMP ARM



STEP 36

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

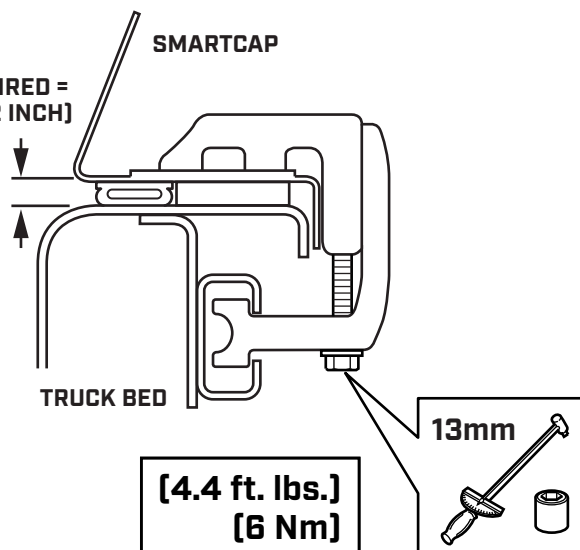
GAP REQUIRED =
13mm [1/2 INCH]

SMARTCAP

TRUCK BED

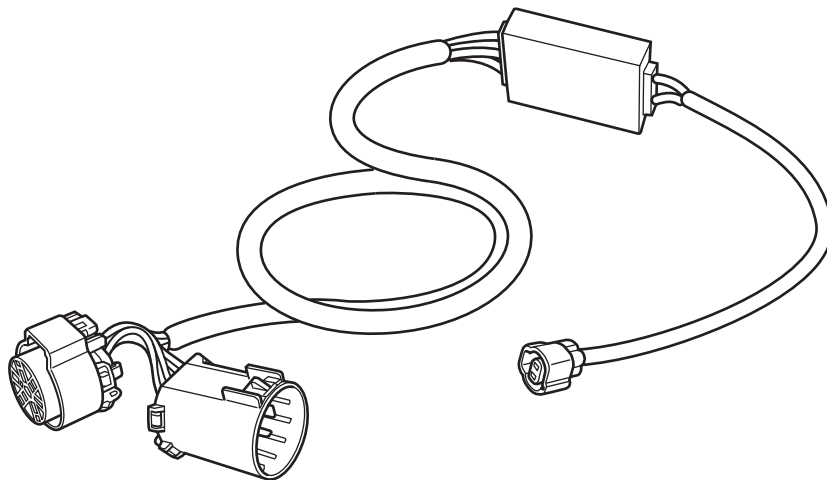
[4.4 ft. lbs.]
[6 Nm]

13mm



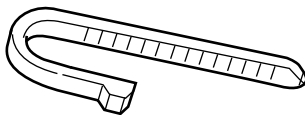
THIRD BRAKE LIGHT HARDWARE

T-HARNESS



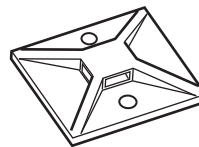
1X

CABLE TIE



8X

CABLE TIE BASE

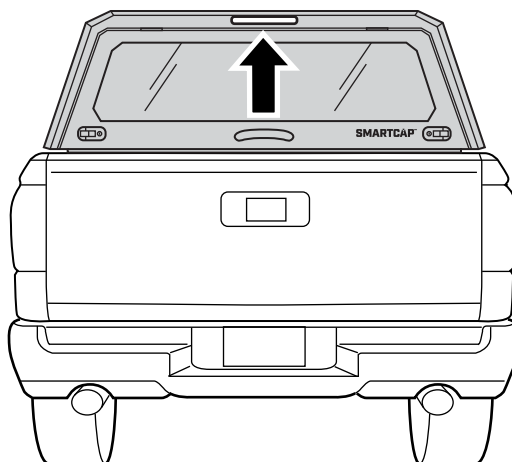


2X



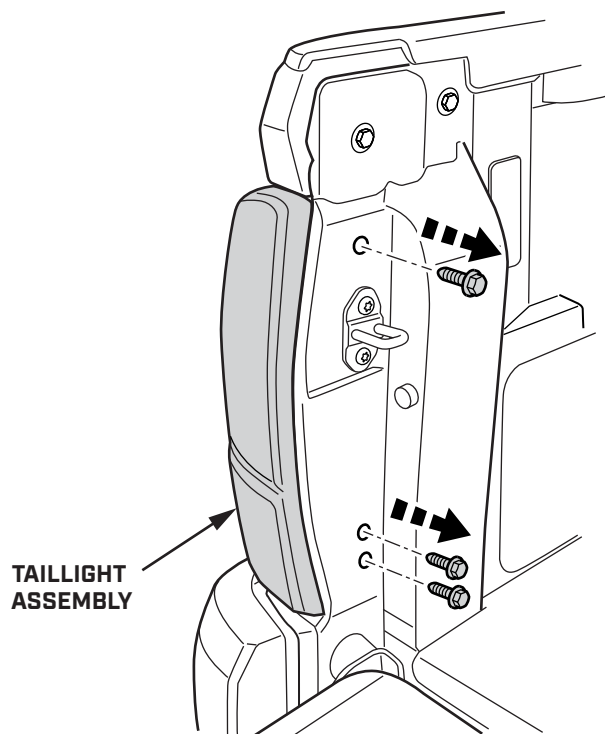
IMPORTANT

- ▼ 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.



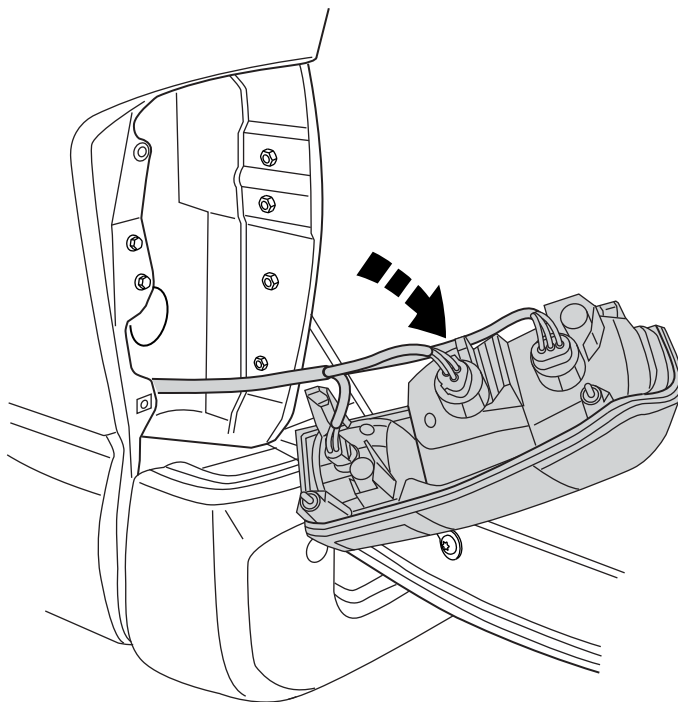
STEP 37

REMOVE THE BOLTS HOLDING
THE DRIVER SIDE TAILLIGHT ASSEMBLY.



STEP 38

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

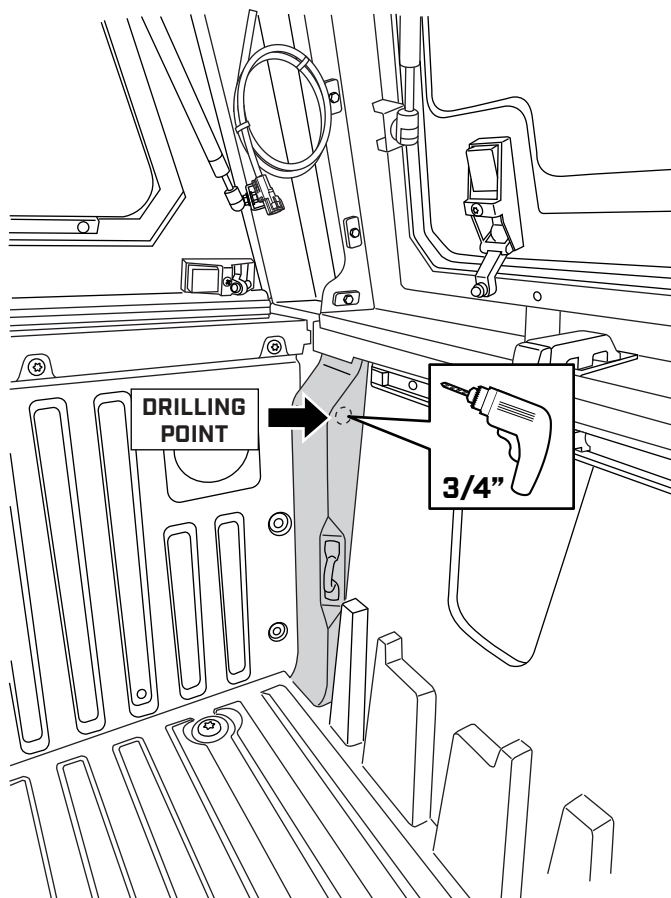


STEP 39

USING A 3/8 INCH DRILL BIT, DRILL A GUIDE HOLE
IN THE LEFT REAR CORNER OF THE TRUCK BED.
MAKE SURE THE HOLE IS DRILLED WITHIN A HALF
INCH FROM THE BEND IN THE PANEL.

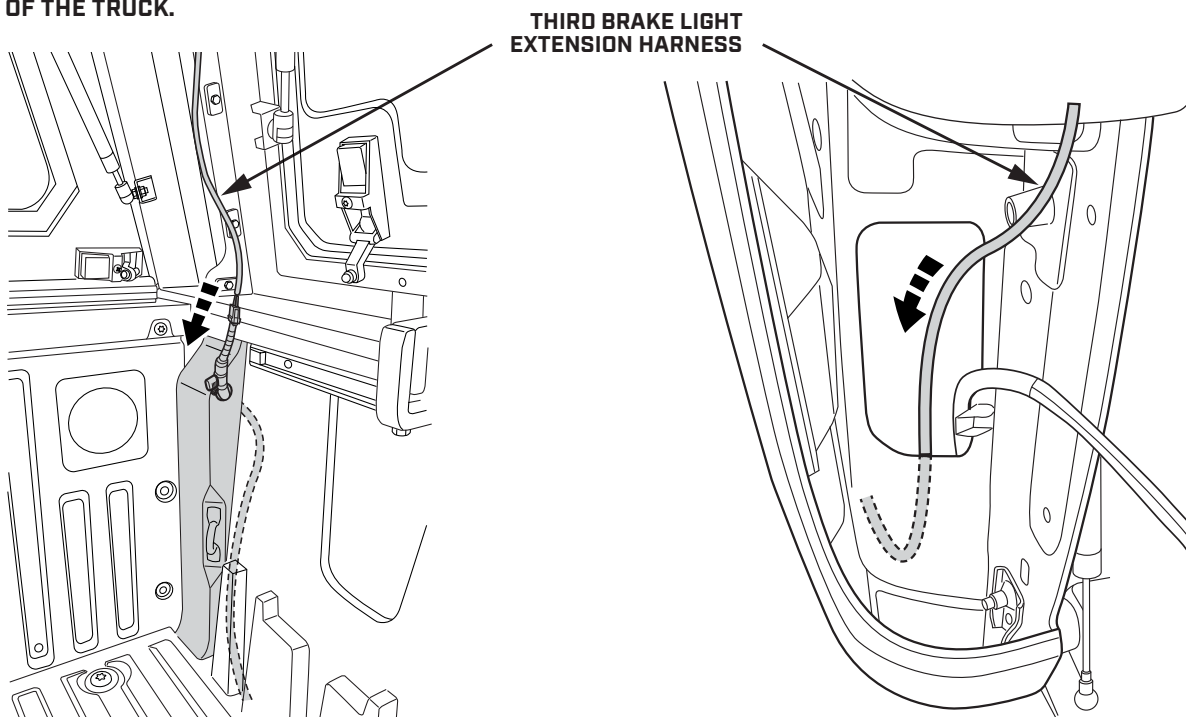
ONCE COMPLETE, USE THE 3/4 INCH DRILL BIT TO
BORE OUT THE HOLE.

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



STEP 40

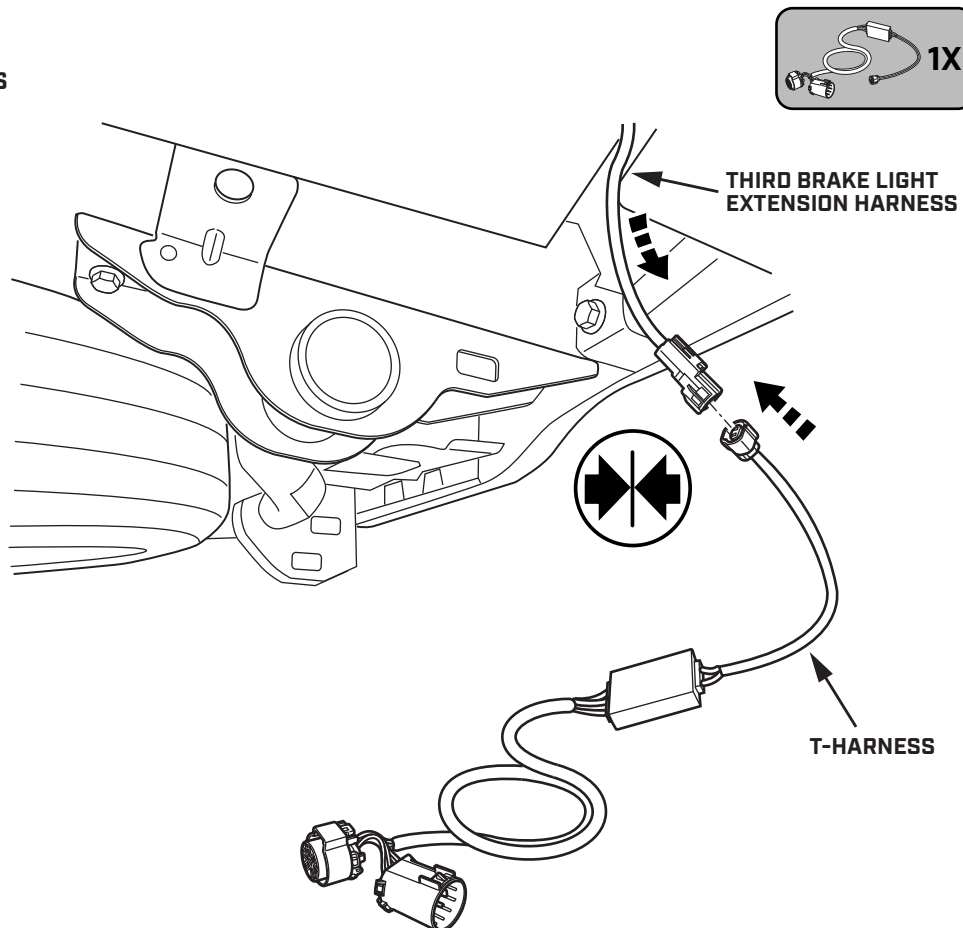
ROUTE THE THIRD BRAKE LIGHT EXTENSION HARNESS FROM THE INSIDE OF THE CAP AND THROUGH THE 3/4" DRILLED HOLE. CAREFULLY FEED THE HARNESS PAST THE TAILLIGHT CAVITY, ENSURING THAT IT EXTENDS TOWARDS THE REAR BUMPER OF THE TRUCK.



STEP 41

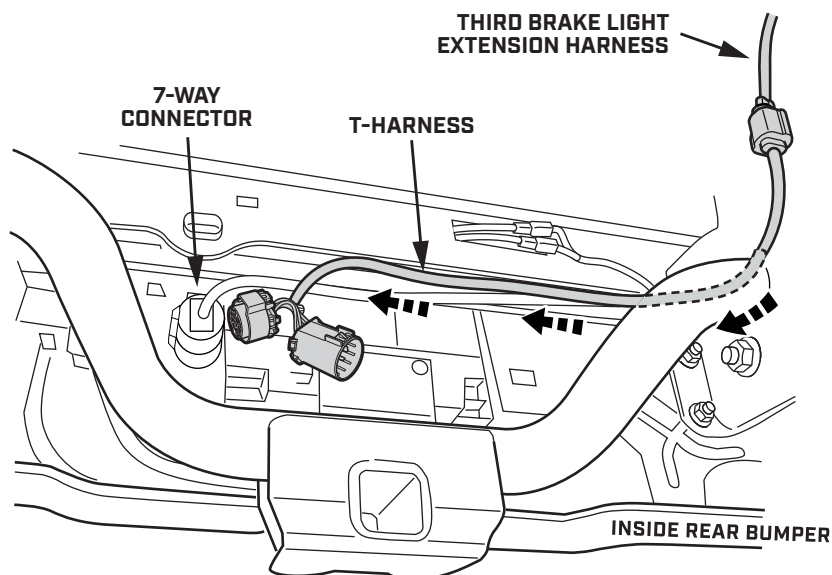
RETRIEVE THE SUPPLIED T-HARNESS FROM YOUR FITMENT KIT.

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



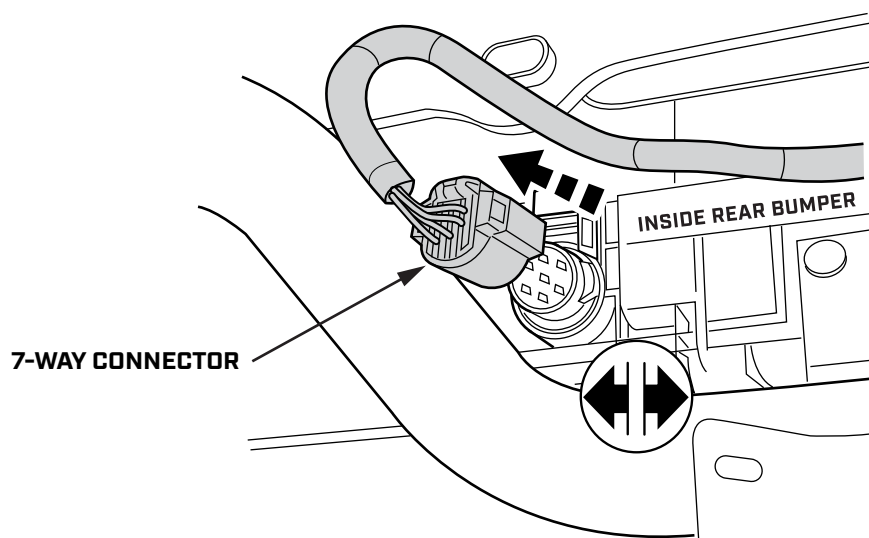
STEP 42

FROM UNDERNEATH THE VEHICLE, ROUTE THE T-HARNESS ABOVE THE FRAME, ALONG THE INSIDE OF THE REAR BUMPER AND TOWARD THE 7 WAY TRAILER CONNECTOR NEAR THE TRAILER HITCH.



STEP 43

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

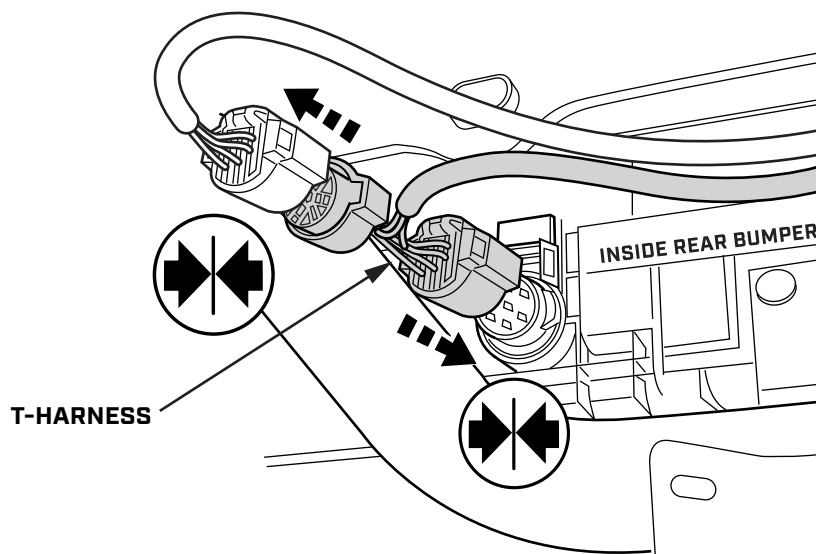


STEP 44

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.

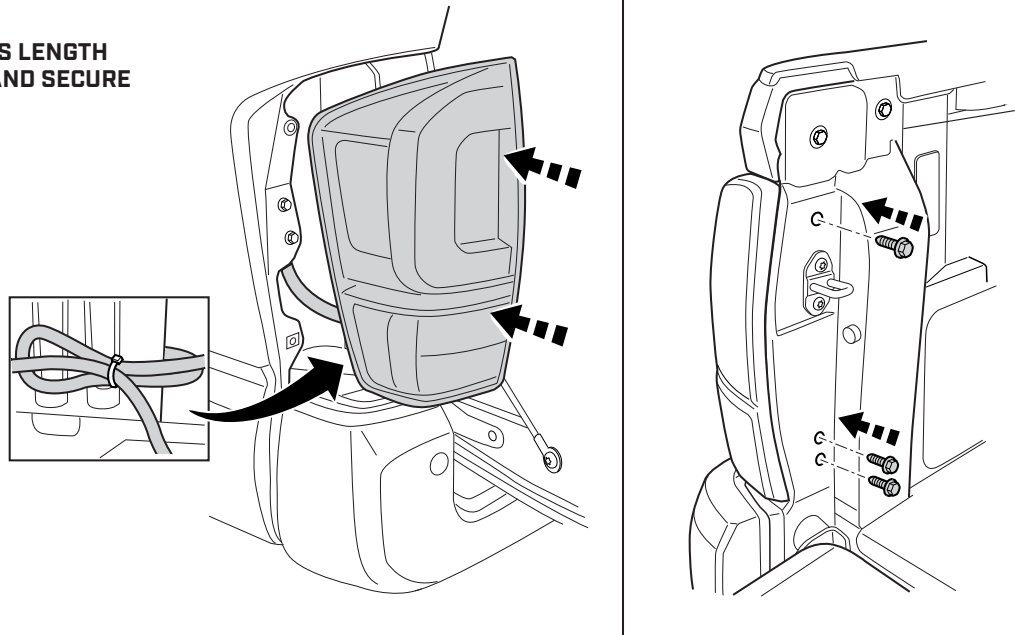
BE SURE PLUGS ARE FULLY INSERTED AND LOCKING TABS ARE IN PLACE.



STEP 45

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

REINSTALL THE TAILLIGHT ASSEMBLY.



STEP 46



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.

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[®]

THANKS FOR YOUR PURCHASE.

PLEASE LET US KNOW IF YOU HAVE ANY QUESTIONS.

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