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
SUPPORT.SA@SMARTCAP.COM - REST OF WORLD
**DISCLAIMER**

It is a requirement from Ford that any 2024 Next Gen Ranger with accessories extending above the bedrails, and weighing in excess of 99lbs, be fitted with their load box reinforcement brackets (aka J-Braces) prior to installation, to avoid negatively impacting your vehicle's factory warranty. Please consult your owner's manual or selling dealer for more information.

**TOOLS REQUIRED**

- Socket Wrench
- Combination Wrench
- Torque Wrench
- Allen Key
- Utility Knife
- Scissors
- 13mm Socket
- 10mm Socket
- 10mm Combination Wrench
- 5mm Allen Key
- 5mm Hex Socket

**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**

- Roof Panel
- Rear Flange
- Left Panel
- Front Flange
- Right Panel
ASSEMBLY HARDWARE

FITMENT KIT

M6 x 10mm BOLT: 28x

M6 LOCK WASHER: 28x

D - RUBBER: 1x

FASTENER BLOCK CLAMP: 28x

FASTENER BLOCK: 28x

SPARE PARTS: 2x

PRE-FASTENED TO ROOF PANEL

M6 FENDER WASHER: 10x

M6 LOCK NUT: 10x
**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.

**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.

USE LID AS WORK SURFACE

STICKER SIDE UP

I-SHEET-NA-R2
STEP 3
USE A 10MM COMBINATION WRENCH TO REMOVE ALL HARDWARE FROM THE ROOF PANEL AND SAVE FOR REUSE.

AIR VENT INDICATES REAR

10mm COMBINATION WRENCH

FRONT EDGE

AIR VENT

ROOF PANEL

STEP 4
LOCATE THE RIGHT PANEL IN THE SMARTCAP PACKAGE AND BRING IT TO YOUR WORK AREA.

SLANTED EDGE INDICATES REAR

2 PERSON JOB

RIGHT PANEL
**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 BOLTS.
STEP 7
LOCATE THE LEFT PANEL IN THE SMARTCAP PACKAGE AND BRING IT TO YOUR WORK AREA.

SLANTED EDGE INDICATES REAR

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.
**STEP 9**
Hand tighten M6 lock nut with M6 fender washer to all bolts.

**STEP 10**
Push the smartcap to expose a few inches of styrofoam underneath the roof panel to provide support for the front flange.
**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.

**STEP 12**

PLACE FRONT FLANGE AS SHOWN BELOW.
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.

BE SURE PANELS ARE FLUSH!

STEP 14

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

STEP 16
PLACE REAR FLANGE AS SHOWN BELOW.
**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)
**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 the rear door gasket.

D. Firmly push the tab back down to secure the D-Rubber in place.

---

**STEP 20**

Peel away adhesive backing in short lengths as you work around the edges. Stay within 1/8 inch from the SmartCap's outer edges. Remove excess with a straight cut.

---

CORRECT D-RUBBER ORIENTATION

INCORRECT D-RUBBER ORIENTATION

---

1/8 INCH FROM EDGE
## Installation Hardware

### Mounting Brackets

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Brackets (Left and Right)</td>
<td>2X</td>
</tr>
<tr>
<td>Rear Brackets (Left and Right)</td>
<td>2X</td>
</tr>
<tr>
<td>25mm x 25mm Foam Seal Tape</td>
<td>1X</td>
</tr>
<tr>
<td>M8 x 20mm Bolt</td>
<td>20X</td>
</tr>
<tr>
<td>M8 Lock Washer</td>
<td>10X</td>
</tr>
<tr>
<td>M8 Fender Washer</td>
<td>34X</td>
</tr>
<tr>
<td>M8 Lock Nut</td>
<td>12X</td>
</tr>
<tr>
<td>M8 x 20mm Button Bolt</td>
<td>2X</td>
</tr>
<tr>
<td>Aluminum Spacer Block</td>
<td>2X</td>
</tr>
</tbody>
</table>

### 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 21
REMOVE THE CENTER TWO BED-RAIL CAP INSERTS AND PLACE THEM IN THE GLOVE BOX.
REPEAT ON THE OPPOSITE SIDE OF THE VEHICLE.

STEP 22
PLACE THE ALUMINUM SPACER BLOCK ONTO THE METAL BED-RAIL AS SHOWN.
REPEAT ON THE OPPOSITE SIDE OF THE VEHICLE.
**STEP 23**

Inspect the truck bed. If front edge is lower than the sides, add foam seal tape to the front edge of the bed.

Be sure to fully seal at both ends.

25mm x 25mm foam seal tape

**STEP 24**

Remove the front tie down hook from the inner wall of the truck bed.

Position the right side front mounting bracket in the front corner of the truck bed as shown.

Secure the bracket with the fasteners as indicated, hand tighten only.

Repeat on the opposite side of the vehicle with the left front mounting bracket.

Front mounting bracket

M8 bolt

M8 washer

M8 lock washer

Tie down hook

3x

2x 6x

6x 6x
**STEP 25**

Remove the rear tie down hook from the inner wall of the truck bed.

Position the right side rear mounting bracket in the back corner of the truck bed as shown.

Secure the bracket with the fasteners as indicated, hand tighten only.

Repeat on the opposite side of the vehicle with the left rear mounting bracket.

**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.
**STEP 29**

WITH A 5MM ALLEN KEY, LOOSELY TIGHTEN THE SMARTCAP RIGHT SIDE PANEL TO THE TOP OF THE TRUCK BED USING M8 BUTTON HEAD BOLT, M8 LOCK WASHER, AND M8 FENDER WASHER AS SHOWN BELOW.

REPEAT ON THE OPPOSITE SIDE OF THE VEHICLE.

**STEP 30**

SECURE THE SMARTCAP TO THE RIGHT REAR MOUNTING BRACKET WITH THE FASTENERS AS INDICATED, HAND TIGHTEN ONLY.

REPEAT ON THE OPPOSITE SIDE OF THE VEHICLE WITH THE LEFT REAR MOUNTING BRACKET.
STEP 31
SECURE THE SMARTCAP TO THE RIGHT REAR MOUNTING BRACKET WITH THE FASTENERS AS INDICATED, HAND TIGHTEN ONLY.

REPEAT ON THE OPPOSITE SIDE OF THE VEHICLE WITH THE LEFT REAR MOUNTING BRACKET.

STEP 32
ONCE ALL THE FASTENERS ARE INSTALLED, PARTIALLY TIGHTEN WITH SOCKET WRENCH AS INDICATED.

PARTIALLY TIGHTEN FASTENERS ON ALL FOUR CORNERS OF THE VEHICLE.
**STEP 33**

Once SmartCap is positioned correctly, fully tighten upper fasteners using a torque wrench and 13mm socket to 4.4 ft. lbs (6 Newton Meters). Fully tighten upper fasteners on all four corners of the vehicle.

Press down on the SmartCap to achieve 2mm - 3mm compression on the D-rubber and continue tightening bracket fasteners with socket wrench as indicated. Continue tightening fasteners on all four corners of the vehicle.

**STEP 34**

Once SmartCap is positioned correctly, fully tighten upper fasteners using a torque wrench and 13mm socket to 4.4 ft. lbs (6 Newton Meters). Fully tighten upper fasteners on all four corners of the vehicle.
**STEP 35**

ONCE SMARTCAP IS POSITIONED CORRECTLY, FULLY TIGHTEN LOWER FASTENERS USING A TORQUE WRENCH AND 13MM SOCKET TO 9 FT. LBS (12.2 NEWTON METERS)

FULLY TIGHTEN LOWER FASTENERS ON ALL FOUR CORNERS OF THE VEHICLE.

**STEP 36**

USING A TORQUE WRENCH WITH A 5MM HEX KEY SOCKET, TIGHTEN THE M8 BUTTON HEAD BOLT TO 4.4 FT. LBS. (6 NEWTON METERS).

REPEAT ON THE OPPOSITE SIDE OF THE VEHICLE.
THIRD BRAKE LIGHT

**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 and trailer plug will function properly.
- Use a test light to check for successful installation.

**LED TAIL LIGHT HARNESS**

INCLUDED IN FITMENT KIT

**INCANDESCENT TAIL LIGHT HARNESS**

IF YOUR RANGER IS EQUIPPED WITH INCANDESCENT TAILLIGHTS, PLEASE CONTACT SUPPORT.NA@SMARTCAP.COM TO RECEIVE THE APPROPRIATE HARNESS.

**STEP 37**

UNTIE THE THIRD BRAKE LIGHT EXTENSION HARNESS FROM WHERE IT IS ATTACHED TO THE SMARTCAP AT THE RIGHT REAR CORNER.

NOTE: THE CONNECTOR ON THE END OF THE HARNESS WILL NEED TO BE DE-PINNED IN ORDER TO ROUTE THROUGH THIS HOLE.
STEP 38
DE-PIN CONNECTOR.

A USE A SCREWDRIVER TO PULL THE LOCK CLIP FORWARD.

B USE A PIN TOOL TO PRESS DOWN ON THE WIRE RELEASE TABS.

C WHILE PRESSING DOWN ON THE RELEASE TABS, REMOVE EACH OF THE WIRES FROM THE CONNECTOR.

STEP 39
ROUTE THE THIRD BRAKE LIGHT EXTENSION HARNESS THROUGH THE HOLE AND DOWN TOWARDS THE INSIDE REAR BUMPER.

BE SURE NOT TO DAMAGE TERMINALS

STEP 40
RE-ATTACH THE CONNECTOR TO THE THIRD BRAKE LIGHT HARNESS IN THE SAME FASHION AS IT WAS REMOVED.

SEE STEP 37
**STEP 41**

**WITH LED TAILLIGHTS**

Connect the LED T-Harness to the 2-Pin connector at the end of the brake light extension harness.

**STEP 42**

**WITH LED TAILLIGHTS**

Locate the 16-Pin connector on the passenger side frame rail and disconnect it.

**STEP 43**

**WITH LED TAILLIGHTS**

Connect the T-Harness female connector to the vehicle harness male connector.

Connect the T-Harness male connector to the vehicle harness female connector.

Bundle the extra T-Harness length under the vehicle and secure with cable ties.
**STEP 44**

**INCANDESCENT TAILLIGHTS**

Locate the 6-pin connector on the passenger side frame rail and disconnect it.

**INCANDESCENT T-HARNESS**

Connect the incandescent T-harness to the 2-pin connector at the end of the brake light extension harness.

**STEP 45**

**INCANDESCENT TAILLIGHTS**

Connect the T-harness female connector to the vehicle harness male connector.

**STEP 46**

**INCANDESCENT TAILLIGHTS**

Connect the T-harness male connector to the vehicle harness female connector.

Bundle the extra T-harness length under the vehicle and secure with cable ties.
**STEP 47**

**INCANDESCENT TAILLIGHTS**

Secure the ground wire on the T-harness to the chassis at a suitable location under the vehicle.

**STEP 48**

Start the truck. Note that on some models, it 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.**

**DUAL RELEASE LATCHES**

**IMPORTANT**

- The lock is designed so that it can be opened from the inside of the cap, whether in a locked or unlocked state.

**UNLOCKING & OPENING (FROM OUTSIDE)**

Insert key into lock barrel and turn to unlock. Remove the key and press the external release button to open the spring loaded latch.
UNLOCKING & OPENING (FROM INSIDE)

PRESS THE INTERNAL RELEASE BUTTON TO OPEN THE SPRING LOADED LATCH.

INTERNAL RELEASE TRIGGER

INTERNAL RELEASE BUTTON

CLOSING & LOCKING

PRESS THE LATCH PLATE INTO THE CLOSED POSITION UNTIL THE BUTTON CYLINDER IS SECURED IN PLACE BY THE INTERNAL RELEASE TRIGGER.

LOCK BARREL

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

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