



Assembly Instructions

PRS4024a



Roof Canopy for Breeze-S3 and Breeze-S4 Scooters

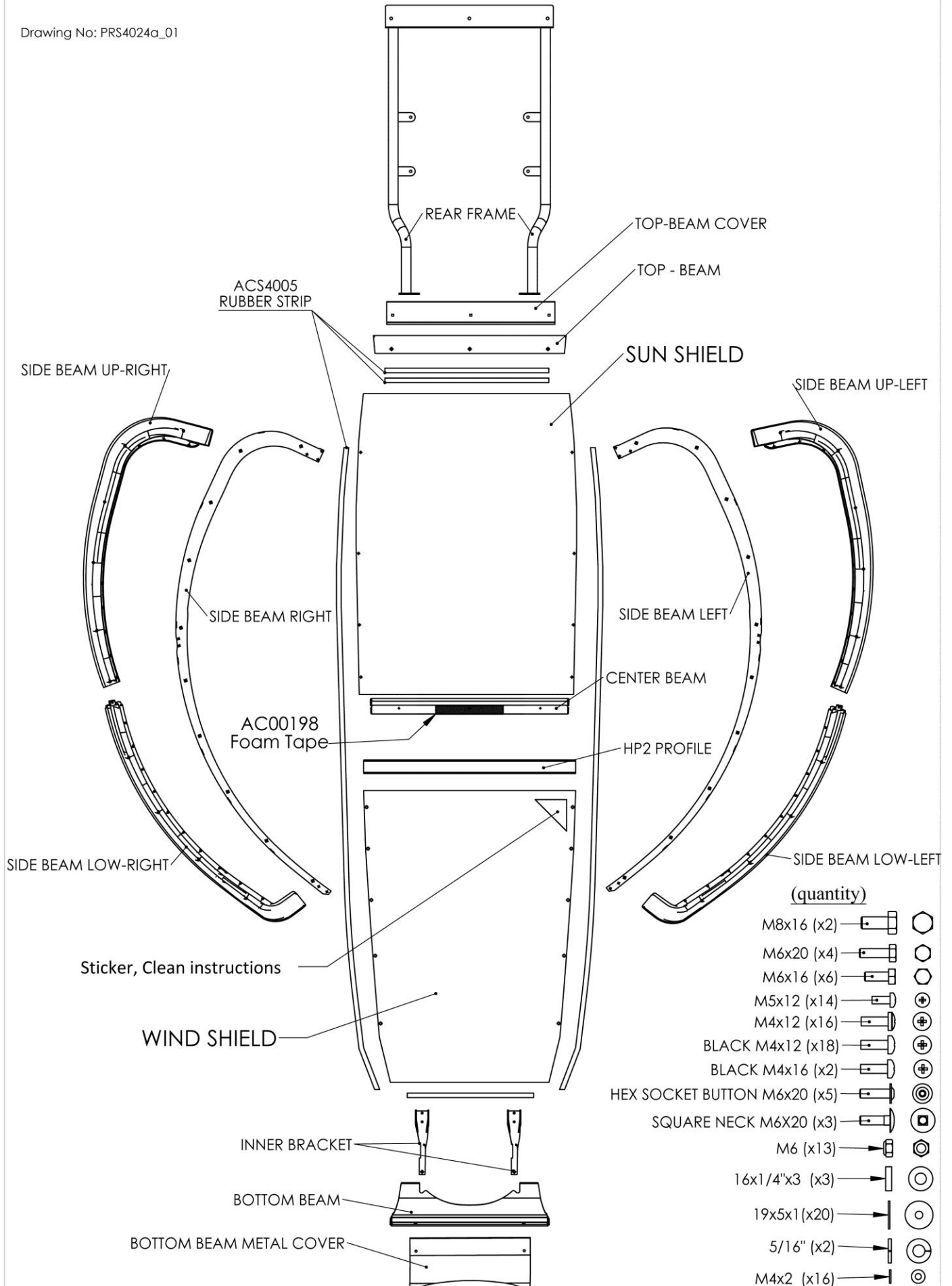
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Canopy Part List

31/01/2013

Drawing No: PRS4024a_01



Tool Table

1.



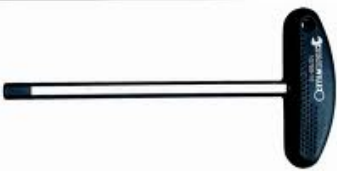
Screwdriver cross slot (phillips)

2.



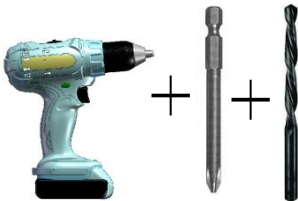
Short neck screwdriver cross slot (phillips)

3.



Hexagon driver 4mm

4.



**For power screwdriver!!!
Recommendation: a drive bit No. PH2.
Drill tool Ø6mm.**

5.



Reversible Ratchet Spanner Size 10mm, (for M6 bolts)

6.



socket 13mm, (for M8 bolts)

7.



3M™ Safety-Walk™ Rubber Hand Roller

8.



9.



10.



DREMEL® 300 Series

Tool: Tungsten Carbide Cutter square tip 3,2 mm (9901)

Introduction

This manual describes how to assemble the canopy roof for *AfiKim* Breeze-S3 and Breeze-S4 scooters.

The assembled canopy is possible on a chassis jig or a Breeze-S3/4



When assembling directly onto a Breeze-S3/4:

- A. Part A: Disassembling the Front and Battery Covers. (Page 6)
- B. Part B: Mounting the Inner Bracket. (Page 7)
- C. Part C: Assembling the Rear Frame. (Page 9)
- D. Part D: Returning the Front Cover to Scooter. (page 10)

Assembly steps:

- 1. Part 1: Assembling the Bottom Beam. (page 11)
- 2. Part 2: Assembling the Top Beam. (page 12)
- 3. Part 3: Assembling the Side Beams. (page 13)
- 4. Part 4: Assembling the Plastic Sheet. (page 14 → 17)
- 5. Part 5: Assembling the Side Panels. (page 18 → 19)
- 6. Part 6: Top Beam Assembly to the Rear Frame. (page 20)

Part A: Disassembling the Front and Battery Covers

When mounting the canopy onto scooters, follow the instructions below.

1.

Dismantle the:

- a. Front cover.
- b. Seat.
- c. Battery Cover.

From the scooter.



2.

Cut bores in the front cover, for the inner bracket.

Cut bores in the designated locations, as shown. A tool, such as this DREMEL tool, may be used to cut bores.



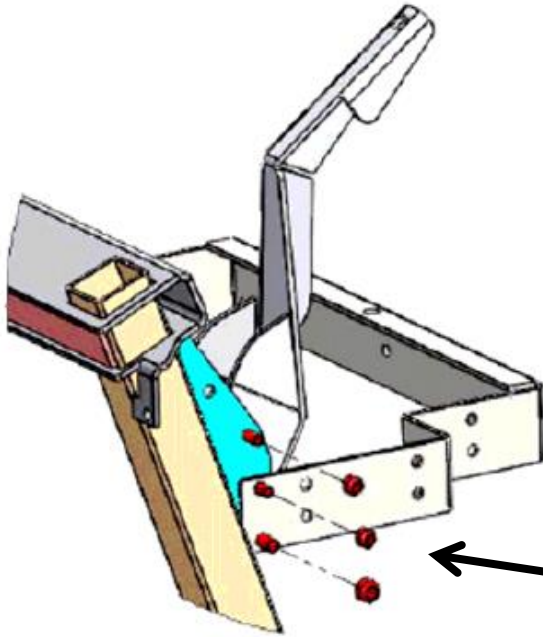
DREMEL tool



Part B: Mounting the Inner Bracket

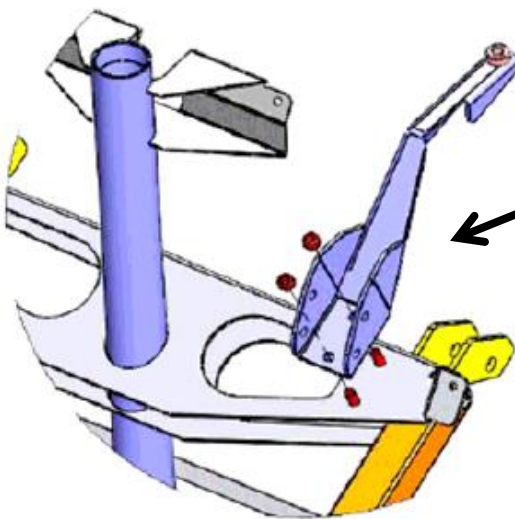
Mount the inner bracket as shown below.

Note: You may need to pre drill (\varnothing 6mm) the holes upon the scooter frame.



- M6X16
- NYLOCK M6

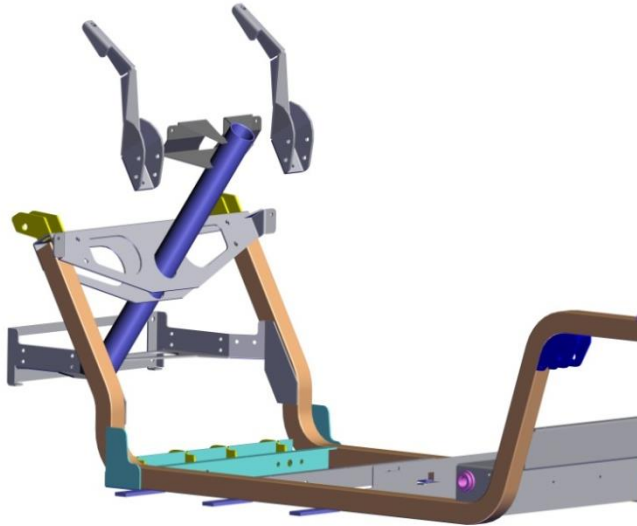
MOUNTING DETAILS OF CANOPY
FRONT BRACKET TO 3W-FRAME



- M6X16
- NYLOCK M6

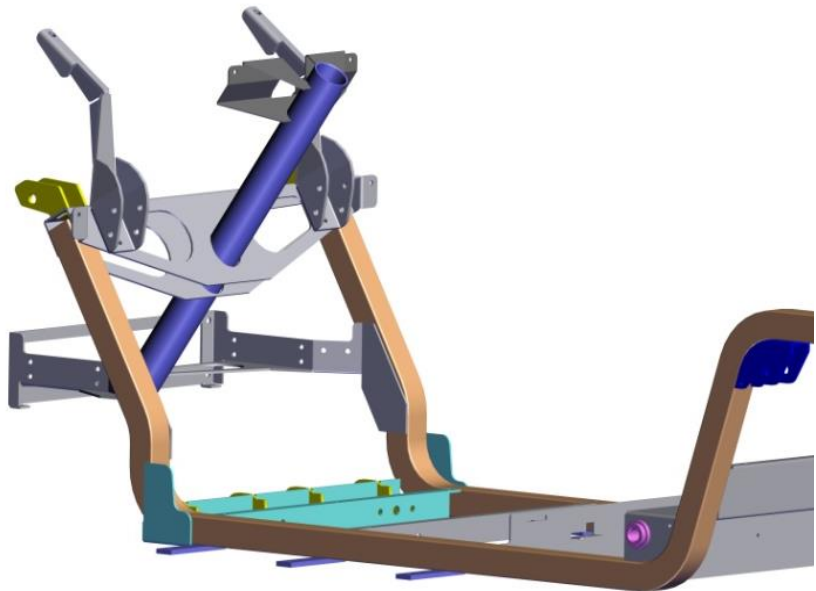
MOUNTING DETAILS OF CANOPY
FRONT BRACKET TO 4W-FRAME

1.



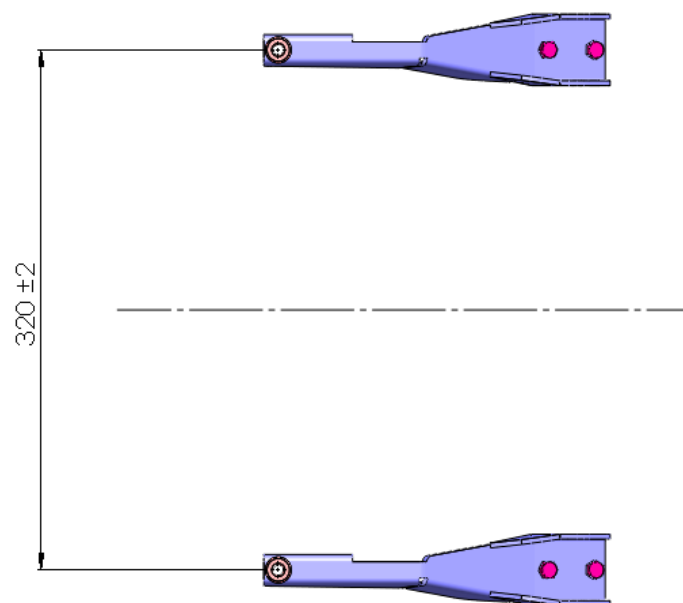
2.

Slightly tighten bolts.



3.

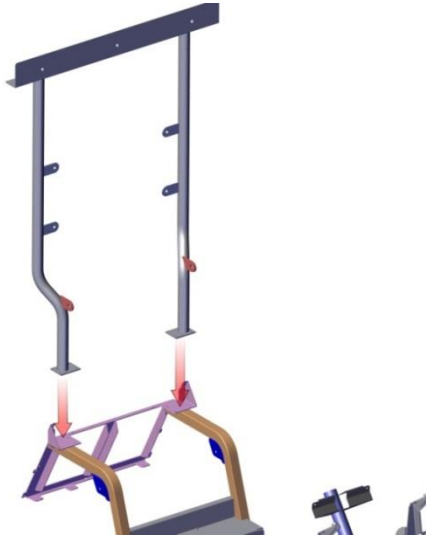
place 320 ± 2 mm
and Tighten bolts
securely.



Part C: Assembling the Rear Frame

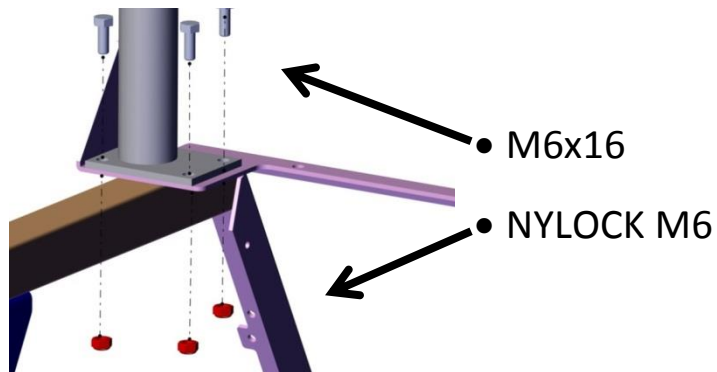
Assemble the rear frame as shown below.

1.



2.

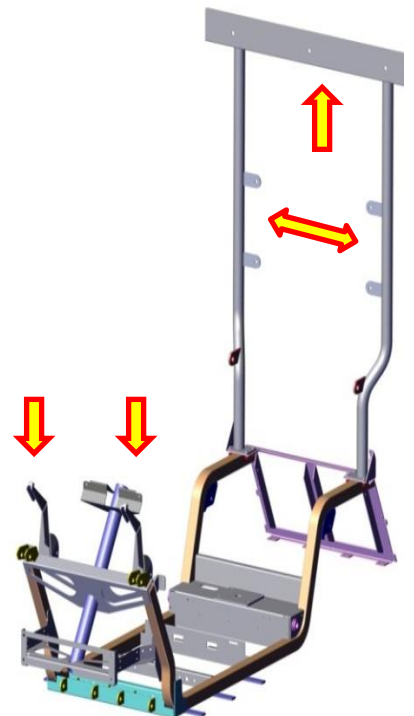
Three bolts anchor each frame base.
Tighten bolts securely.



After assembling the rear frame and the inner brackets, the scooters will appear as shown.

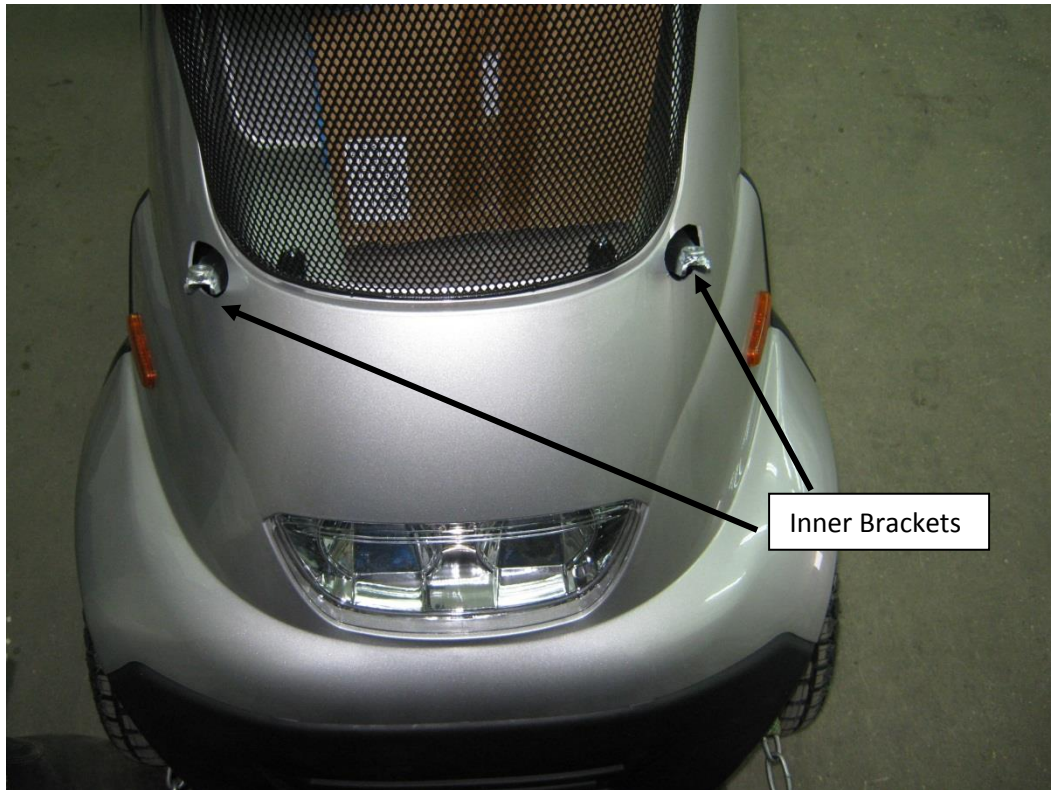


After assembling the rear frame and the inner brackets, the chassis will appear as shown.



Part D: Returning the Front Cover to Scooter

Reassemble the front cover onto the scooter.



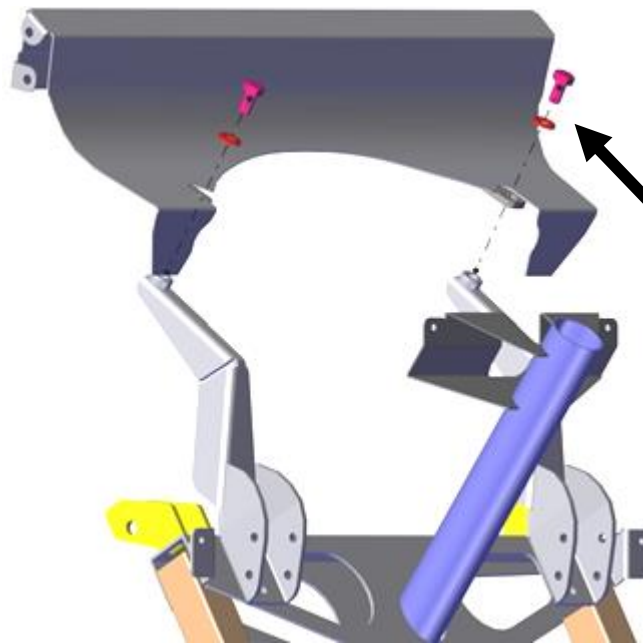
Reassemble the:

- a. Front cover.
- b. Battery Cover.
- c. Seat.

Part 1: Assembling the Bottom Beam

1.

Assemble the bottom beam, onto the inner brackets, as shown.

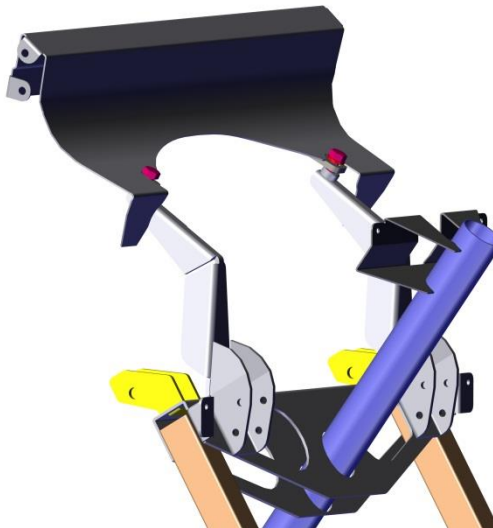


- M8x16
- Spring washer

2.

If using a chassis as a jig, fasten the bolts, but do not fasten them strongly. (After assembly, these bolts will be loosened to remove the canopy.)

If assembling the canopy directly onto the scooter, fasten these anchor bolts securely. (This is a permanent assembly of the bracket to the vehicle.)

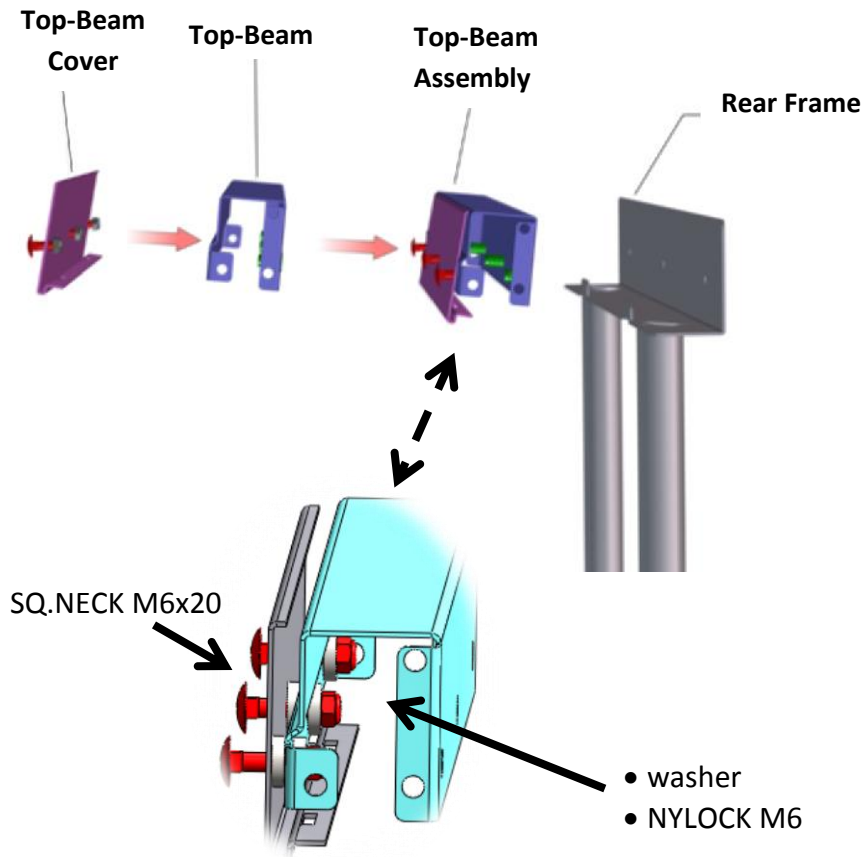


Part 2: Assembling the Top Beam

1.

LOOSLY attach the cover to the top-beam back plate.

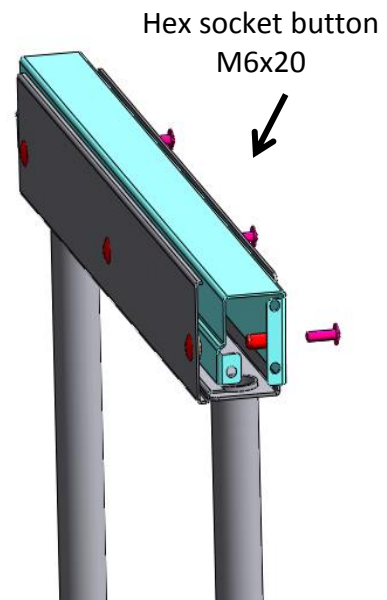
Do NOT tighten the square neck bolts.



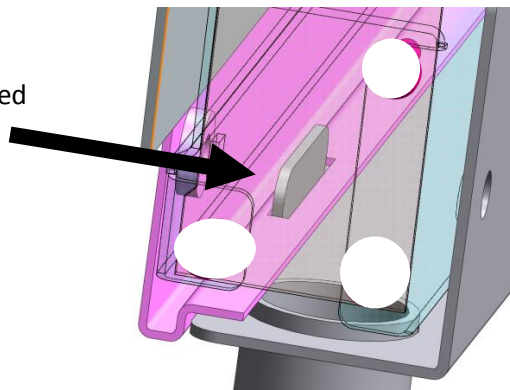
2.

Place the top-beam assembly on the rear frame, as shown.

LOOSLY Secure the top-beam assembly to the rear frame with a hex socket screw.



Ensure that slots are placed over flat pins.

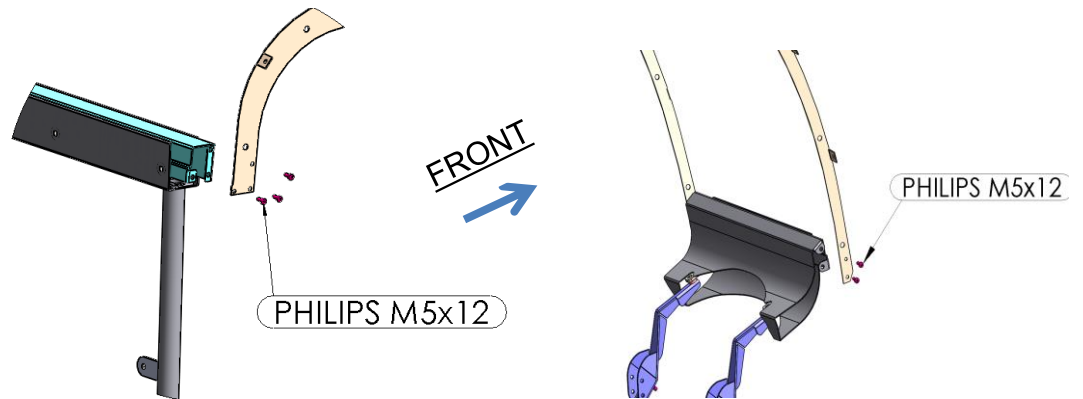
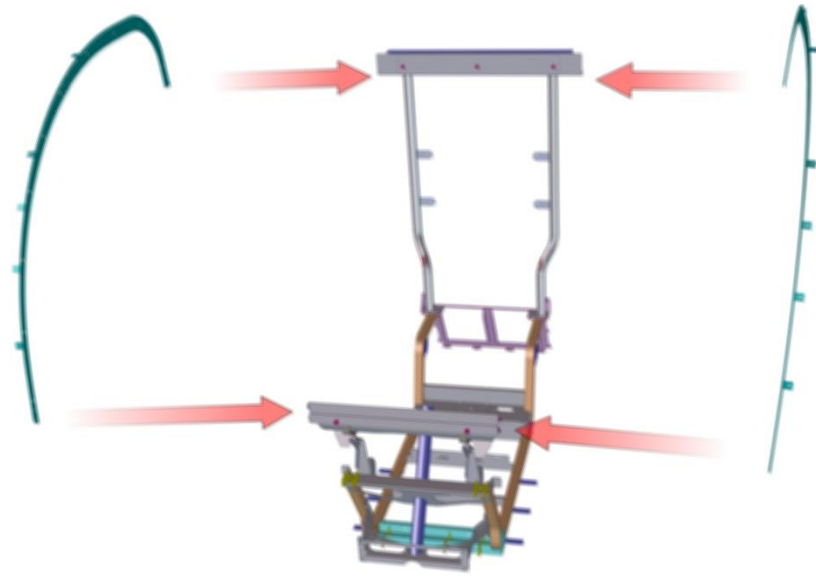


Part 3: Assembling the Side Beams

Assemble side beams to the bottom beam, and Top-Beam, as shown below.

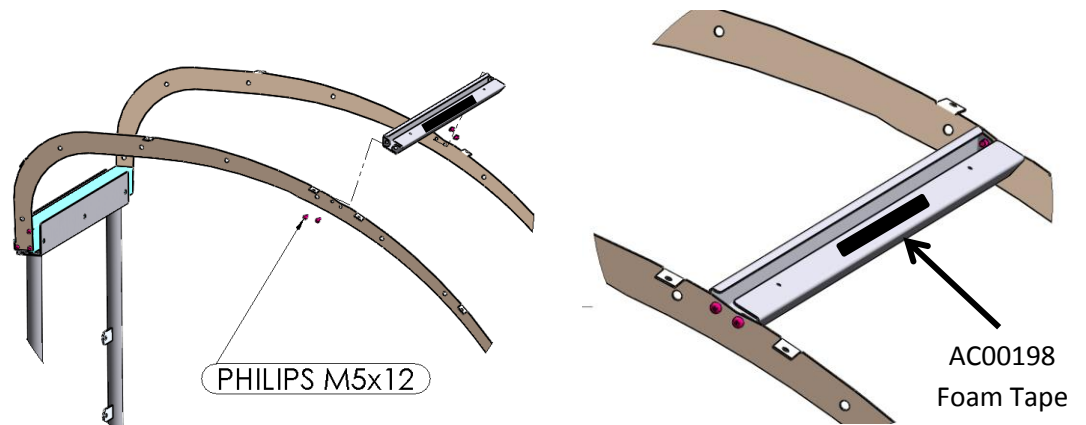
1.

At first, LOOSELY attach the side beams to the bottom beam and top-beam. Do NOT tighten the bolts.



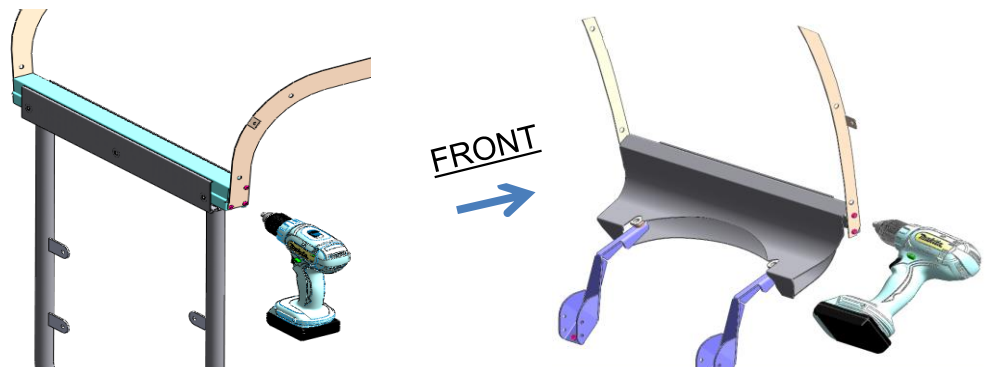
2.

Secure the center beam between the two side beams. Tighten the bolts securely **on both sides**.



3.

After securing the center beam, tighten all remaining bolts on both sides.



Part 4: Assembling the Plastic Sheet

Assemble the plastic sheet onto: Top, Side and Bottom Beams, side rails as shown below.

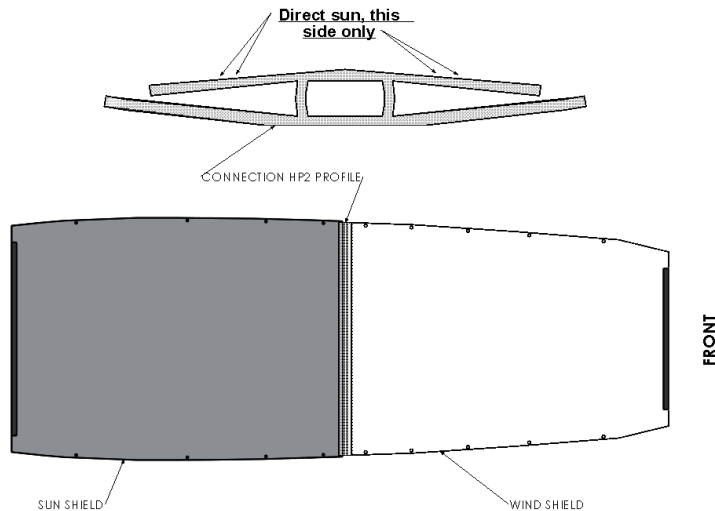
1.

Assembly the sun shield to the wind shield with a connection HP2 profile, upon a flat table or box.

Make sure that the HP2 profile SUN direction is UP.

Slip in the sheet in to the HP2 lips by pressing down and shoving it in.

Note: pre peel off a 100mm (4") of the protection film around the edge contours to avoid catching.



2.

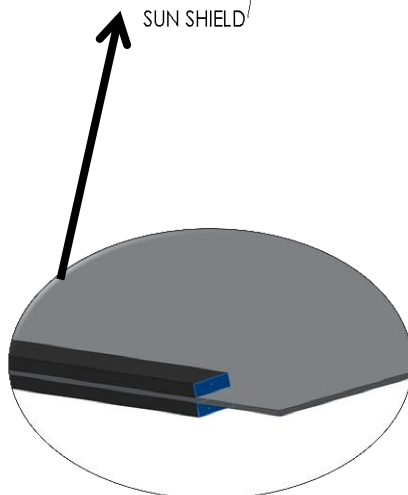
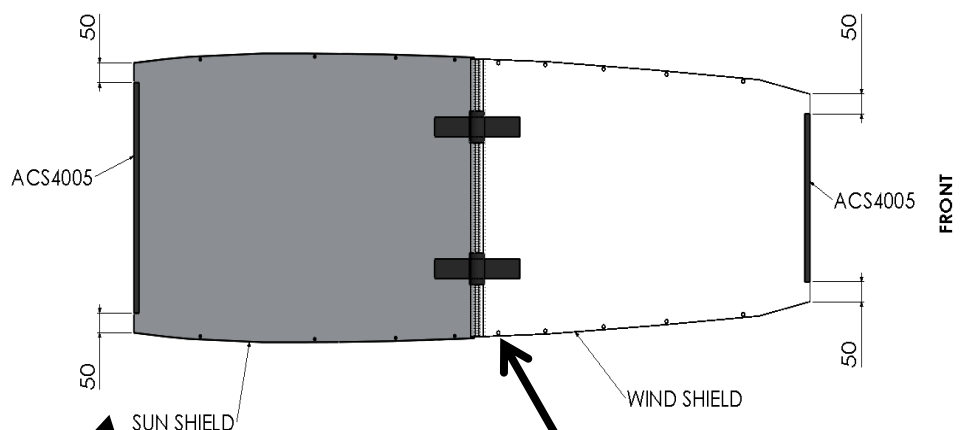
Secure the sheets together by cello taping it on the upper side.

Insert a leftover plastic between the tape and the HP2 profile.

Stick the rubber strip **ACS4005** as shown, on the rear edge apply it on both upper and bottom side.

Make sure that ACS4005 sticks **upon the plastic** sheet without protection film.

Note: avoid contact between adhesive cello tape and unprotected plastics.

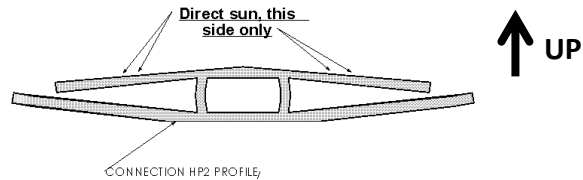


3.

Carefully lay the assembly sheet over the side beams.

The top side of the sheet is the HP2 profile SUN direction is

UP.



4.

Peel back the protection film from the edges.

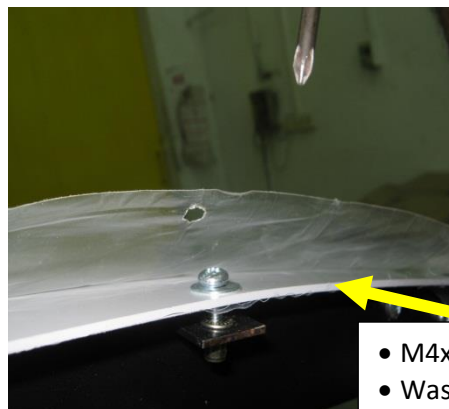
Insert the back end of the sheet into the top-beam assembly, between the Top-Beam Cover and the top-beam.



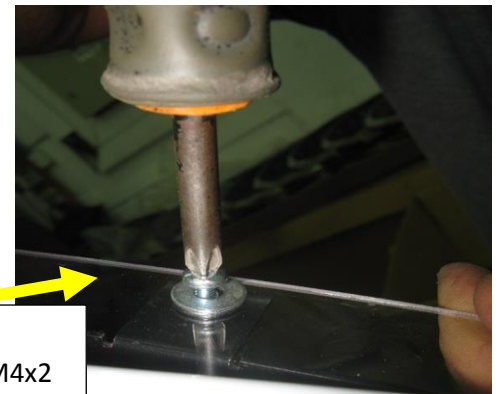
5.

Tighten screws in their designated locations, along the side beams. Work from the back towards the front.

Note: Don't over tighten, leave sheet free.



- M4x12
- Washer M4x2

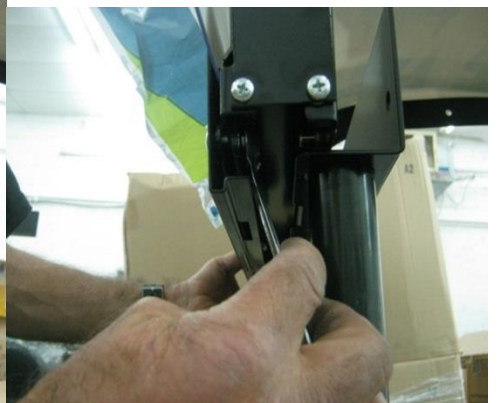


6.

After tightening all the screws, remove the Hex socket button screw.

Tighten the cover to the top-beam from the inside with tool #5 (Tool Table).

The plastic sheet is sandwiched in between the cover and the top-beam



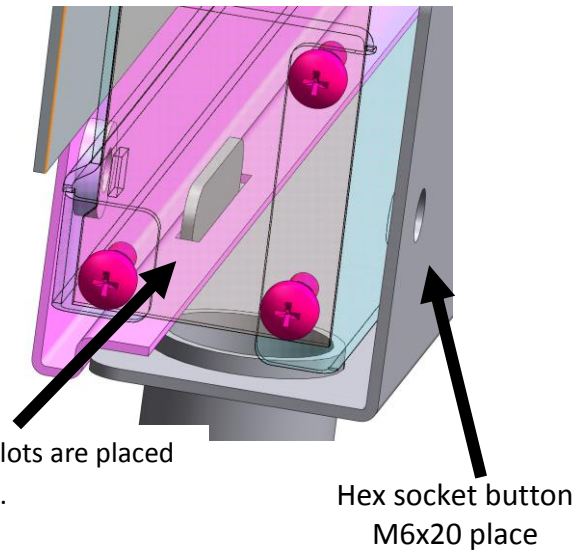
7.

Place the top-beam assembly into its proper position on the rear frame and reinstall the **hex socket screw**.

Hold the end of the railings firmly with both hands.

Lift the assembly on top of the rear frame, the slot and the flat pins fits each over.

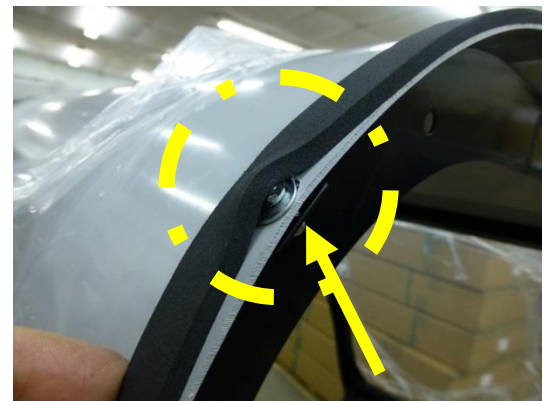
Note: If using a chassis as a jig, ensure that the chassis is secure, so that the complete chassis will not be lifted up.



8.

Apply the rubber strip upon the assembly plastic sheets, from edge to edge (top to bottom).

Make sure to cover the screws and washers as shown, to avoid water drips inside the canopy.



9.

Press the rubber strip over all upon the plastic sheets and HP2 profile.

Make sure that the gap on the screw area is closed.



10.

Secure HP2 profile upon center beam.

Push up the assembly plastic sheet and remove the foam tape AC00198 adhesive protection layer.
(come upon the center beam).

Press the HP2 profile against the center beam firmly and evenly.

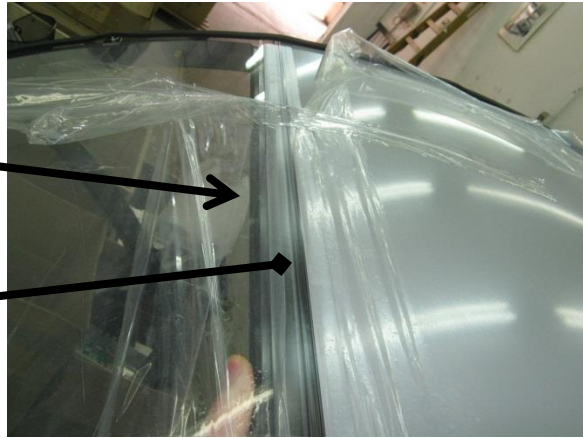
Make sure that the HP2 profile is in good contact.

Note: Foam tape AC00198 will have the max adhesive strength after 72 hours.

TOP-VIEW

Center beam
+ foam Tape
In black

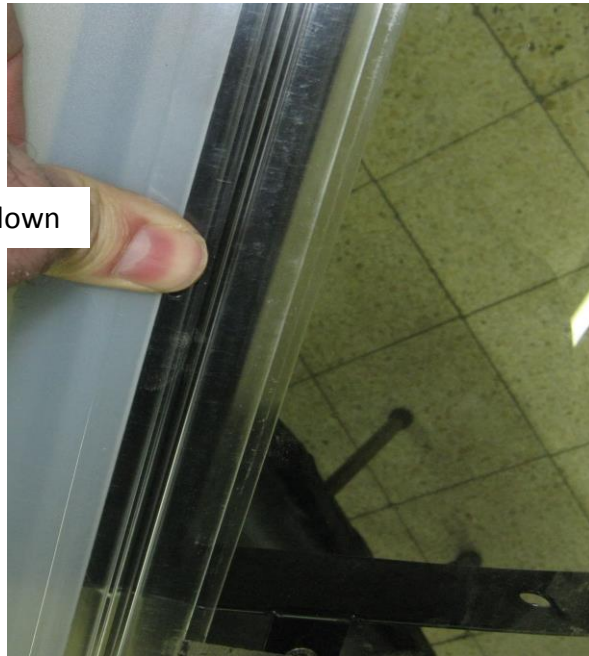
HP2 profile



Peel off
protection layer



Push down



Part 5: Assembling the Side Panels

Assemble side Panels as shown below.

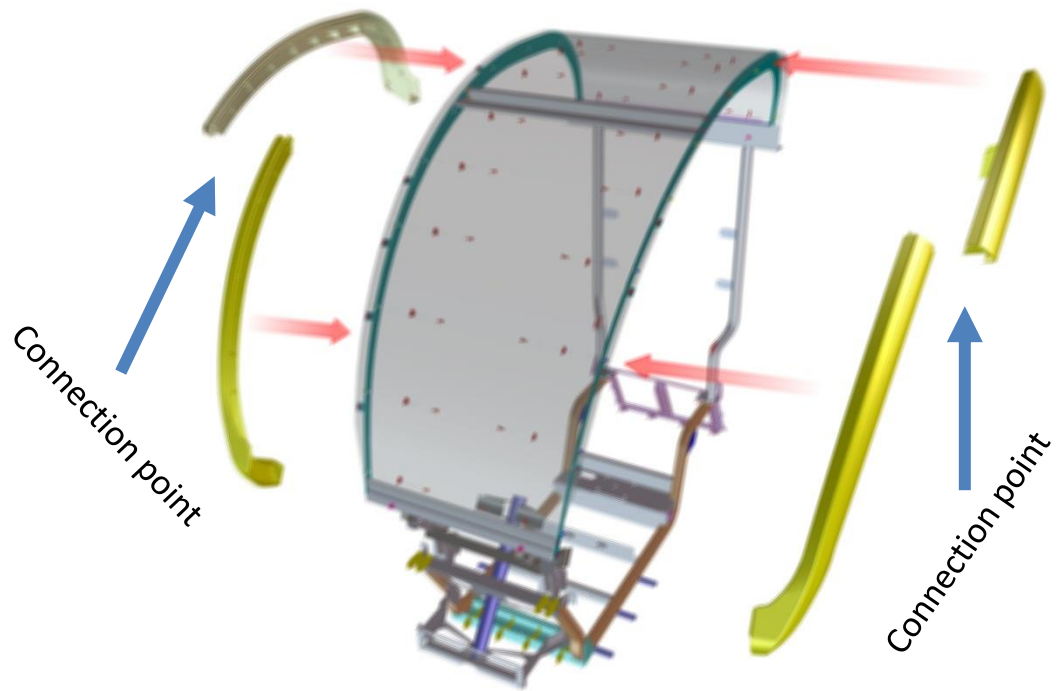
1.

Assemble four side panels onto the sides of the canopy.

Start from the back, and work towards the front.

Caution: Don't over tighten the M4 screws.

$T_{\max} = 2.2 \text{ Nm (18.5 lbf-in)}$.



2.

Fasten screws.

Ensure that each screw is properly centered in its housing.

Note: use tool #2 on the tool table for the 4 corner screws.

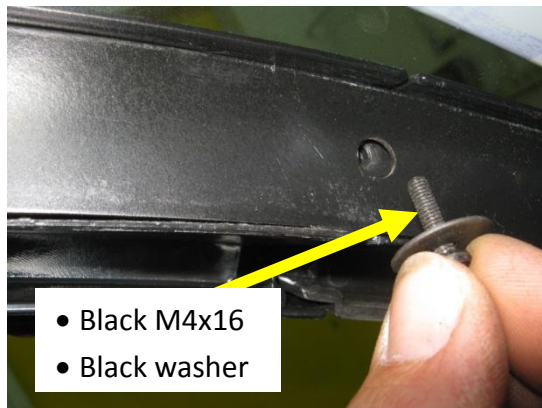
- Black M4x12
- Black washer



3.

At the connection point between the upper and lower plastic beam, fasten a black screw M4x16.

- Black M4x16
- Black washer



4.

Mount the front plate onto the front bracket.



5.

Fasten the screws of the front plate.

Hex socket button
M6x20



6.

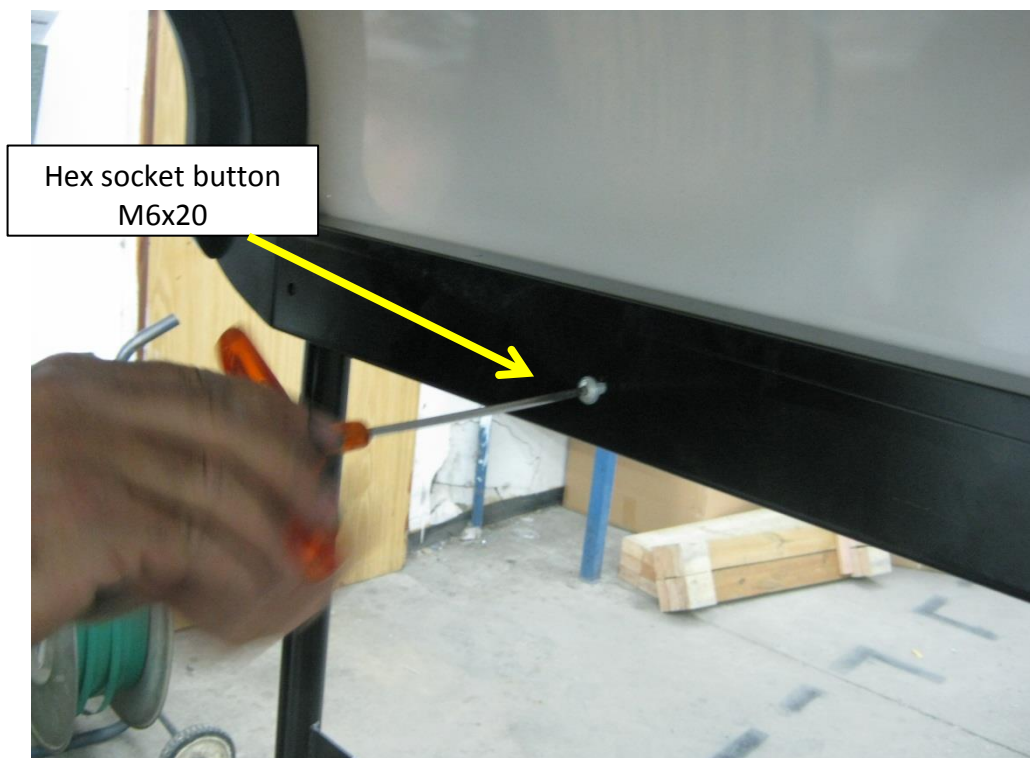
Windshield clean instructions sticker.

Place the sticker on the inside of the windshield.



Part 6: Top Beam Assembly to the Rear Frame

Secure the top-beam assembly to the rear frame with three screws (by Tool Table #3), from the interior of the canopy, as shown.



Assembly of the canopy is completed.

Part 7: Disassembling the Canopy from the Jig, Preparing the Scooter

If using a chassis as a jig, follow the steps below.

1.

Prepare a Breeze S3/4 scooter for mounting the canopy.

As described in parts A to D.

Part A: Disassembling the Front and Battery Covers

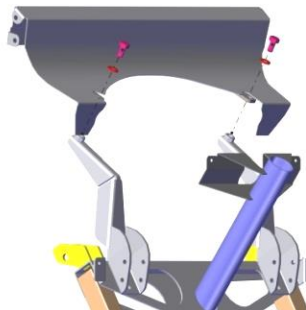
Part B: Mounting the Inner Bracket

Part C: Assembling the Rear Frame

Part D: Returning the Front Cover to Scooter

2.

On the chassis-jig, unscrew the bottom beam from the inner brackets.



3.

Place the canopy on its designated electric scooter.



4.

Anchor the bottom beam to the inner brackets.

Part 1: Assembling the Bottom Beam

5.

Anchor the Top beam to the rear frame .

Part 6: Top Beam Assembly to the Rear Frame