

HELMCASTER / SALTCASTER CUSHION AND BACKREST COVER REMOVAL

July 2022 Doc No. CST-WI-0017

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1 INTRODUCTION

1.1 PURPOSE

This document is a written procedure for removing the cushions and backrest cover of the HELMCASTER and SALTCASTER seats.

2 GENERAL NOTES AND PROCEDURES

2.1 SAFETY PRECAUTIONS

Disassembly requires handling of seat outside of it's intended use. HELMCASTER and SALTCASTER recline mechanism is spring loaded. HELMCASTER and SALTCASTER armrests can move. HELMCASTER has a moving front bolster cushion. Take note of the motion of each of these areas and avoid injury by pinch points or other during disassembly. Resting the seat on any of these moving components can cause the seat to shift or move unexpectedly resulting in injury. Always make sure the seat is safely secured by a non-moving part of the structure.

<u>WARNING:</u> Pinch points possible with moving components. Recline mechanism is spring loaded, expected motion to be introduced if the recline is unlocked.

2.2 TOOLS AND SUPPLIES

Tools and supplies that should be present and available:

- 2.0mm hex wrench (M4 bolts)
- 2.5mm hex wrench (M5 bolts)
- 3.0mm hex wrench (M6 bolts)

2.3 REPLACEMENT PARTS

If the logo plate is removed, new push-on fastener clips should be used to re-attach the logo plate:

• Two of ALLSALT part number 139545 or McMaster-Carr part number 97200A512

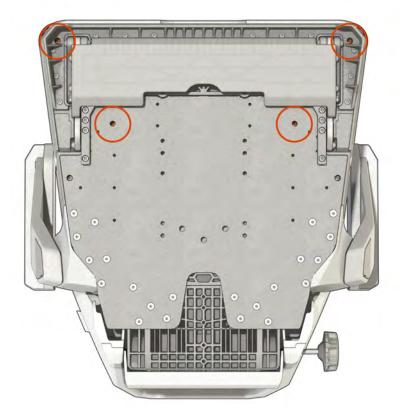
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3 LOWER CUSHIONS REMOVAL

3.1 FRONT BOLSTER CUSHION REMOVAL

1) From the underside of the seat, remove the four M5 bolts shown in the image below:



2) From the topside, lift cushion sub-assembly upwards off of seat pan:

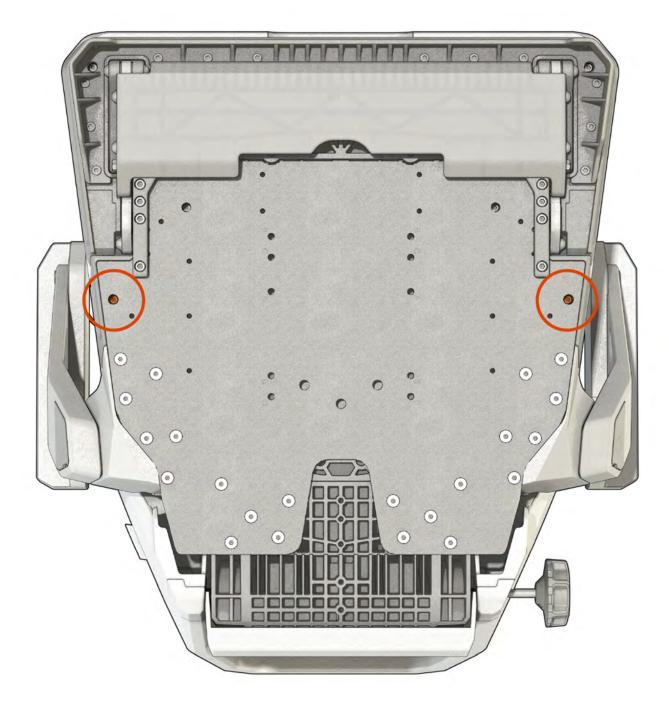


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3.2 REAR LOWER CUSHION REMOVAL

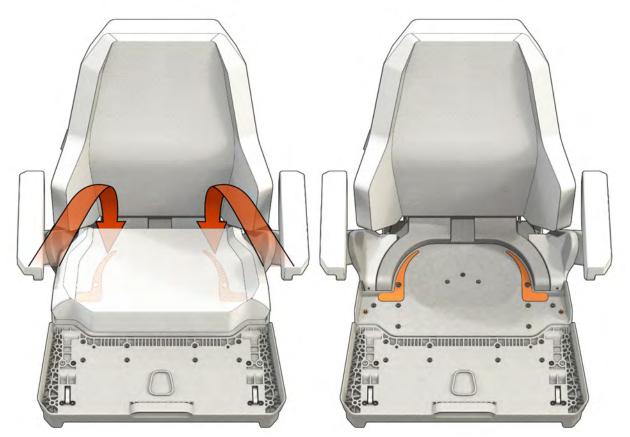
1) From the underside of the seat, remove the two M5 bolts shown in the image below:



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2) From the topside, reach under the two rear corners of the seat cushion to help separate the Hook & Loop fastening patches between the cushion and the seat pan:



3) Lift cushion sub-assembly upwards off the seat pan:



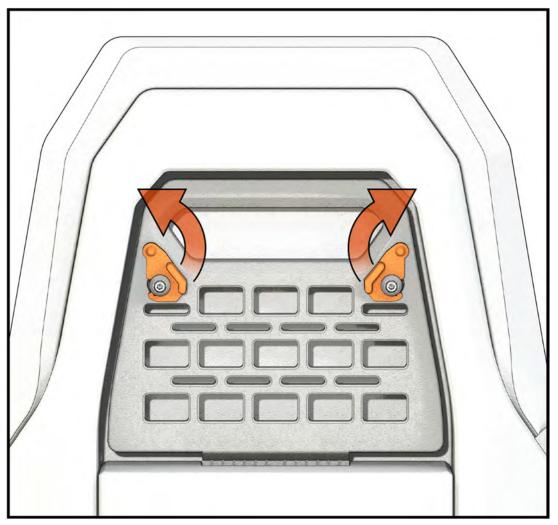
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4 REAR CUSHION REMOVAL

4.1 MOLLE PANEL REMOVAL

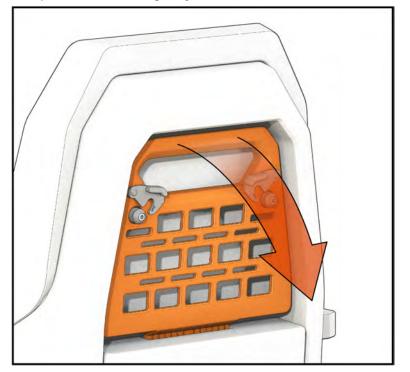
1) From behind the seat, release clips on each side of Molle panel by rotating inwards:



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2) Tilt Molle panel backwards gently until it comes to a rest:

3) Lift Molle panel out gently in an upwards direction:

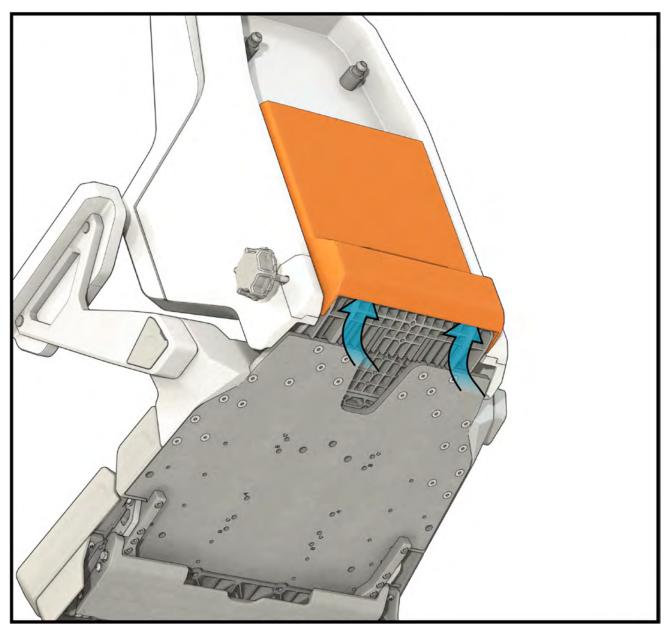


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4.2 RECLINE COVER REMOVAL

1) Reach under recline cover at each corner along bottom edges (Tip: Gap between parts is narrow, using flat bar or flat sides of wrenches may work better than hands):

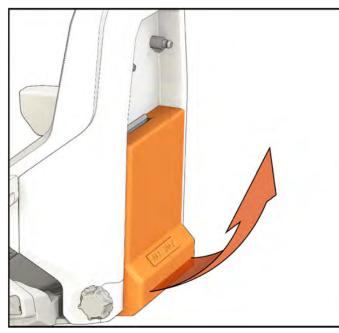


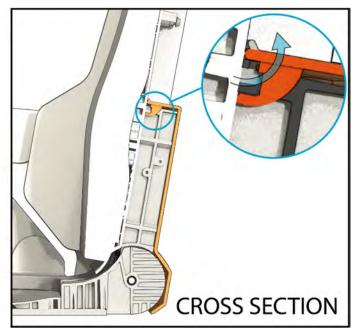
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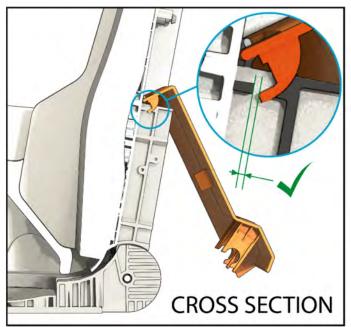


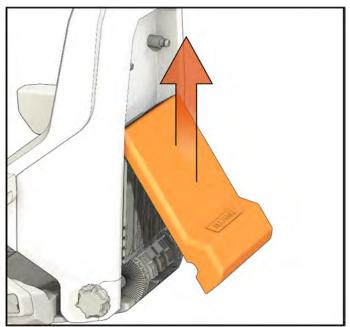
2) Gently pull the recline cover outwards and slightly upwards as to rotate the cover along its top edge:





3) Once the cover is released from its clips and freely moving it can be lifted upwards and then away from the seat:





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4.3 BACKREST CUSHION REMOVAL

1) From behind, remove the four M5 bolts shown here (Note: the Molle panel posts will be removed at the same time):



2) The cushion can now be removed from the seat:



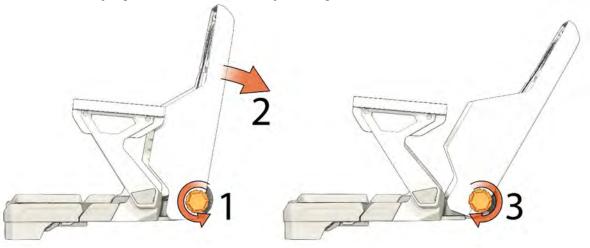
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5 BACKREST COVER REMOVAL

5.1 TILT BACKREST REARWARDS

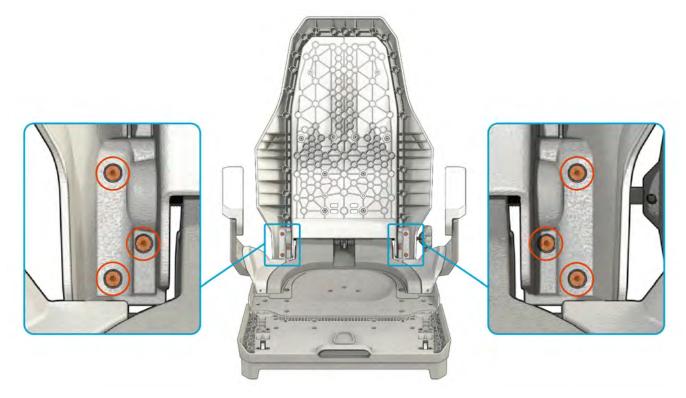
- 1) With caution, release the recline lock by turning the recline knob counterclockwise while securely holding the backrest. (WARNING: the recline is under spring tension, expect the backrest and seat pan to want to travel inwards towards each other)
- 2) Tilt the seat rearwards until it reaches its stop
- 3) Firmly tighten the recline lock by turning the recline knob clockwise:





5.2 CORNER CAPS REMOVAL

1) From the frontside remove the six M4 bolts shown here:



2) From behind, remove the two lower corner caps:

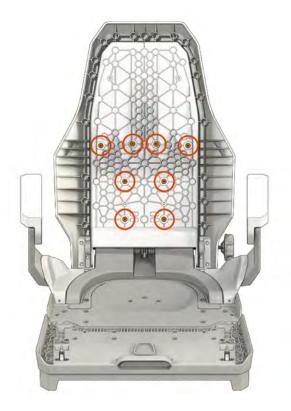


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5.3 BACKREST REMOVAL

1) From the front, remove the eight M6 bolts shown here:



2) The backrest cover can now be removed:

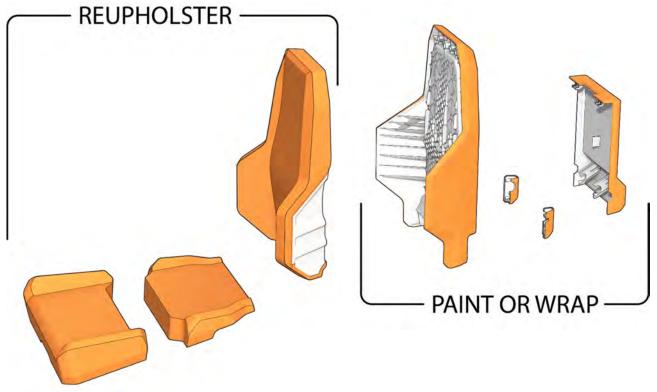


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6 CUSTOMIZEABLE ITEMS

Below is an image of the components that you have now removed from the seat assembly. Preferred methods of customization are noted:



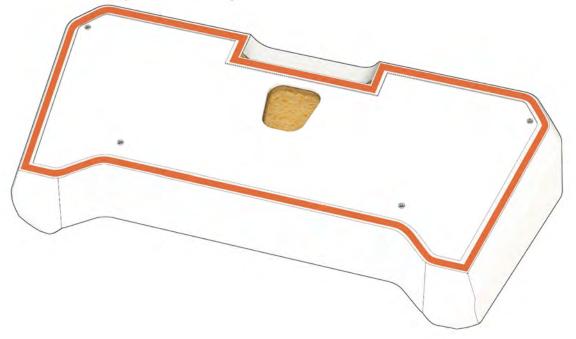
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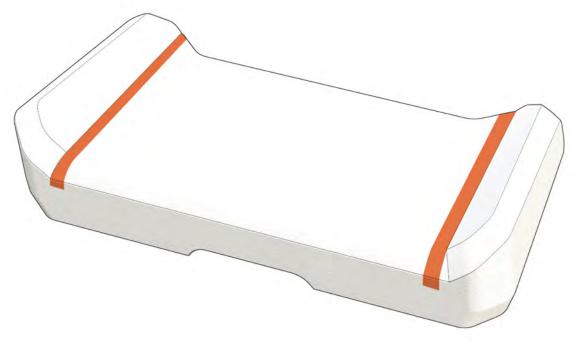
7 UPHOLSTERED ITEMS

7.1 FRONT BOLSTER CUSHION

1) The cushion has a plastic backing plate on bottom where staples need to be removed prior to removing the fabric cover:



2) There are two strips of hook and loop fastener strips inside the cover holding the center panel against the cushion:

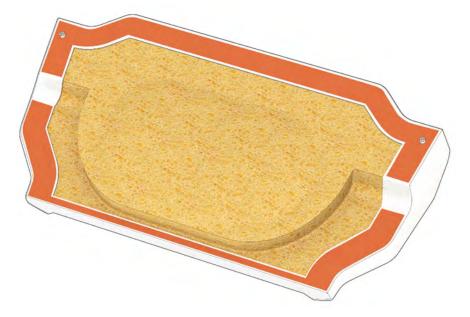


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7.2 REAR LOWER CUSHION

1) The cushion has a plastic backing plate on bottom where staples need to be removed prior to removing the fabric cover:



2) There are two strips of hook and loop fastener strips inside the cover holding the center panel against the cushion:

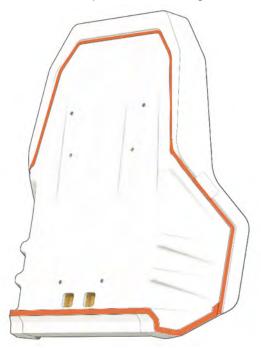


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7.3 BACKREST CUSHION

1) The cushion has a plastic backing plate on rear and outside of bolsters where staples need to be removed prior to removing the fabric cover:



2) There are two strips of hook and loop fastener strips inside the cover holding the center panel against the cushion:



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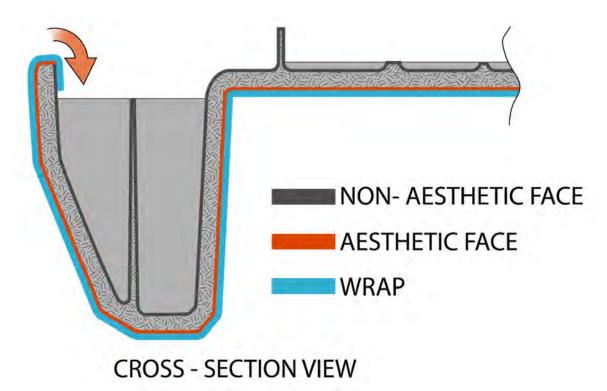
8 PLASTIC ITEMS

8.1 PAINT APPLICATION RECOMMENDATION FOR ALL ITEMS:

Please consult with your chosen professional applicator for proper material and application methods. Note: products may have residual mold release agent on surfaces. This should be cleaned prior to paint treatment.

8.2 VINYL RECOMMENDATION:

- 1) Use a high-quality cast vinyl (3M or Avery) and apply according to manufacturer's instructions
- 2) If painting or wrapping to the edges of aesthetic/visible faces, ensure the wrap is carried over the edge and far enough into the non-aesthetic areas to prevent the material from pulling back or failing along the edge.



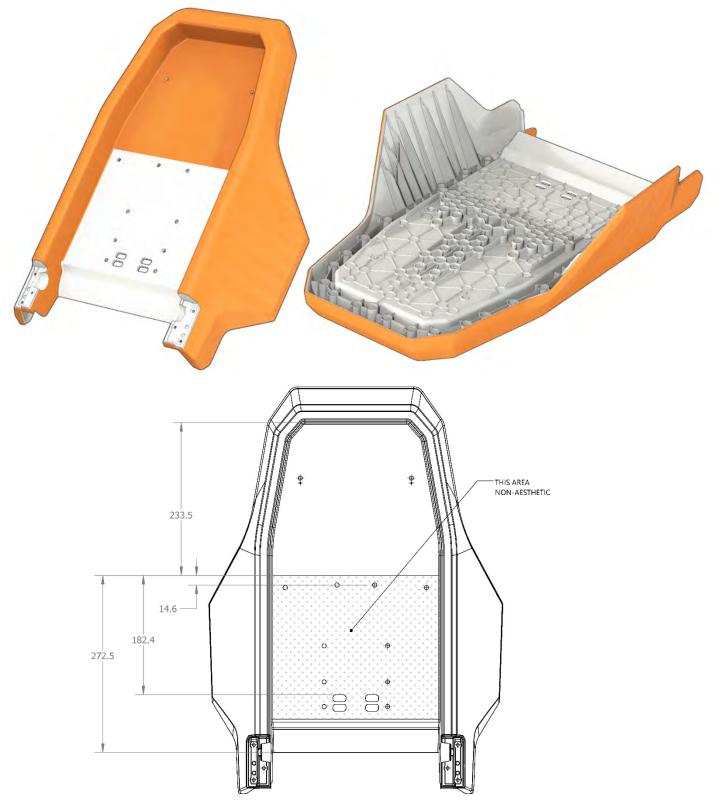
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8.3 REAR COVER

1) The aesthetic/visible faces are shown in ORANGE colour below. Assume symmetry on left/right sides if faces are obscured in view angle.

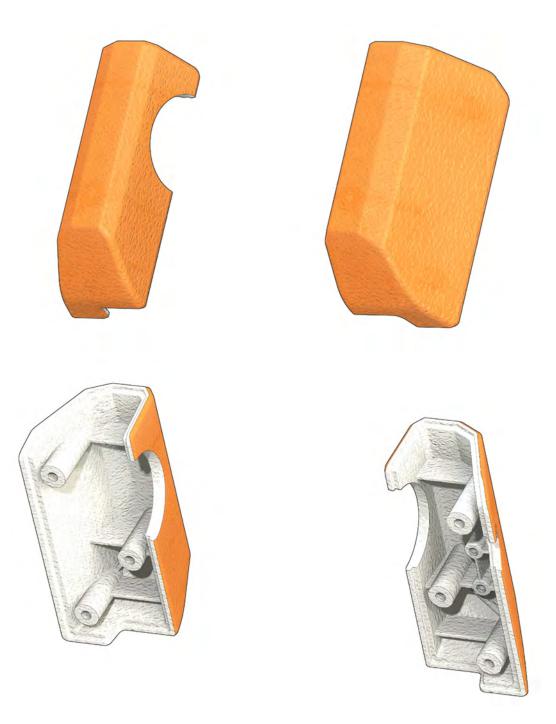


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8.4 REAR CORNER CAPS

1) The aesthetic/visible faces are shown in ORANGE colour below. Assume symmetry on left/right sides if faces are obscured in view angle.

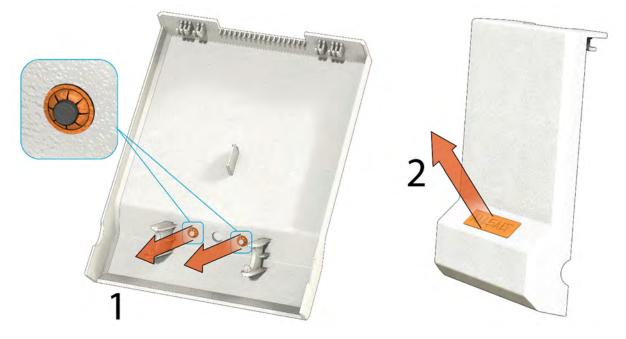


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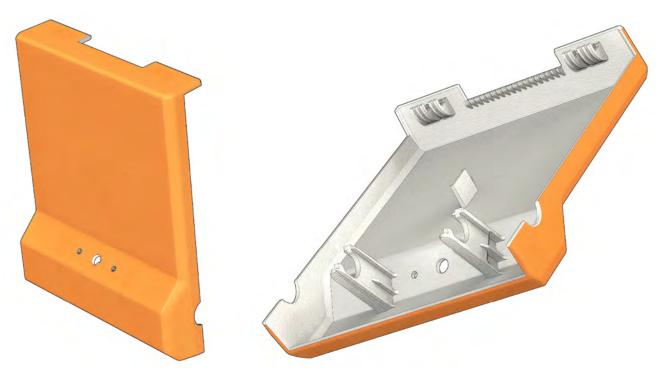


8.5 REAR TILT COVER

 It is recommended to remove the logo plate if wrapping or painting in that area. Two push-on fastening clips must be removed from the logo plate studs. They will need to be replaced when the logo plate is re-assembled.



2) The aesthetic/visible faces are shown in ORANGE colour below. Assume symmetry on left/right sides if faces are obscured in view angle.



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