



Care and Maintenance Manual

GALLET F2XR

Multi-Purpose Helmet



Order No.: MSAGALLET

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1 Introduction

This document details care and maintenance instructions for the GALLET F2XR helmet. It contains information on the following aspects:

- Preventive Care of the helmet (by individual user, including routine inspection, cleaning and storage)
- Recommended Service and Maintenance schedule
- Helmet advanced inspection instruction and individual conformity criteria for each component of the helmet
- Replacement instruction for each component of the helmet and associated spare part
- Helmet control check list template for inspections

2 Preventive Care

These actions are described in the operating manual supplied with each helmet and must be performed by the helmet user at the prescribed frequency.

2.1 Routine Inspection

WARNING!

- Helmet absorbs the energy of a blow by partial destruction of, or damage to, the helmet. Even though such damage may not be readily apparent, any helmet subjected to a severe impact should be replaced.
- Do not drop the helmet. Avoid unnecessary impacts to the helmet which could damage the face shield and/or optional visor (cracks/scratches).
- In case of visible damage identified during the daily check (before or after use), such as impacts, significant scratches, coating removal on the shell or visors, melted parts, broken parts, torn straps or paddings, missing components, non-operational moving parts (such as visors or ratchet), etc., the helmet should be taken to the trained maintenance technician or an MSA approved maintenance center for complete control processing.
- Do not use a helmet that has damage.
- Do not attempt to test the helmet. The performance properties of the helmet and its components cannot be properly tested by a user in the field.
- Do not apply paint, adhesives or self-adhesives labels, cleaning products with a hydrocarbon base or solvents to the helmet or visors to prevent damaging the materials of your helmet.
- Inspection and Maintenance operation listed in this manual must be performed only by personnel who have been trained and certified by MSA.
- Use only MSA-approved parts. Do not alter, modify or substitute parts without the approval of MSA. Do not deviate from the maintenance and repair procedures contained herein unless approved in writing by MSA.
- Failure to follow the recommended inspection procedures can reduce helmet performance and result in serious personal injury, disease, illness, or death.

Failure to follow these warnings can result in serious personal injury or death.

Before each use, inspect the helmet for visible damages such as:

- Cracks, breakages, major plastic distortion (bumps) on shell, visors and all solid elements.
- Damaged straps or fabric elements (holes, torn areas, missing stitches, etc.).
- Proper attachment of the helmet's components (chinstrap, suspension, interfaces) to the shell.

Check proper operation of adjustment and safety elements such as the headband ratchet knob, chinstrap buckle, straps adjusters, etc.

If in doubt, do not use the helmet and request an advanced inspection or replacement of the damaged components.

2.2 Cleaning After Use

WARNING!

- Helmets that are dirty or soiled from firefighting activities may be contaminated with toxins that are poisonous, pathogenic, toxic or carcinogenic. Failure to properly clean the helmet after each use per the recommended cleaning procedures may result in injuries, illness, disease and/or death.
- Do not use cleaning solvents, oils, varnishes, or polishes other than those recommended in this manual to clean or decontaminate helmets or helmet components.
- Do not use abrasives, solvents, paint removers, acetone, paint or lacquer thinner, or any chlorinated organic solvents to clean the helmet shell. Use of these substances can degrade the protective properties of the helmet shell.
- Do not use equipment that produces mechanical action such as tumbling or agitation to machine-wash or dry complete helmets.
- Do not use forced hot air or put the helmet directly on a heat source to dry it.
- Do not apply paint, stickers, cleaning products with a hydrocarbon base or solvents to the helmet or visors to prevent damaging the materials of your helmet.

Failure to follow these warnings can result in serious personal injury or death.

Cleaning the helmet helps extending its lifetime and improves hygienic conditions of use.

Clean the helmet after each use as dirt / fumes are easier to remove immediately than after a long storage period (as they can migrate into the upper paint/varnish layer).

Detailed cleaning instructions are available in the GALLET F2XR Cleaning, decontamination and disinfection guidelines. It includes:

- Manual cleaning procedures
- Mechanical cleaning procedures with fixed-basket washing machine and Ozone cabinet

2.3 Transportation and Storage

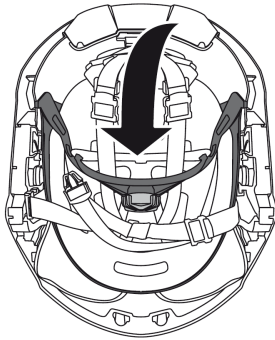
Proper helmet storage eliminates risk of pollution created by the environment (vehicle fumes, extended sun exposure, moisture, etc.)

After cleaning, inspect your helmet for visible damages before storing it. In case of doubt, check with a trained maintenance technician.

- Store the helmet in an area where it is not exposed to the following hazards / elements:
 - Exhaust fumes
 - High temperature variation (e.g. next to a window exposed to the sun)
- Store the helmet in a closed cabinet, and/or, if supplied with the helmet, in the storage bag.
- Let the textile helmet components (padding, neck curtain) dry before putting the helmet in a closed area / storage bag
- Do not hang / carry the helmet by the chinstrap.

- For long duration storage, fold the nape strap inside the helmet (→[Figure 1](#)) to prevent distortion of the plastic headband.

Figure 1 Nape Strap Storage



- Helmet with ocular visor: Ocular visor must be stored inside the helmet (out of use position). Ocular visors and face shields bought separately from helmet should be kept in their original packaging until they are mounted on the helmet.

3 Recommended Service and Maintenance Schedule

GALLET F2XR helmets are Category III Personal Protective Equipment according to regulation (EU) 2016/425.

Regular inspection and adapted maintenance must be performed to ensure the proper condition of the equipment for its intended use and protection levels.

For normal use (regular with non-impacting exposure to fire conditions), MSA recommends that the helmet be inspected at least every 2 years.

This inspection schedule can be adapted in the following cases:

- Helmets not used on a daily basis and are never exposed to hazardous operational conditions – inspection can be performed every 4 years.
- Helmets used on a daily basis with very frequent exposure to real fire conditions (trainers for instance) – inspection intervals must be reduced to 1 year.
- Local regulations may contain requirements on inspection frequency. If local regulations require more frequent inspections, follow that frequency. Otherwise, follow the MSA recommended frequencies.

Systematically perform an advanced inspection before the next use if the helmet is exposed to the following conditions:

- Severe mechanical impact
- Direct, severe exposure to flames
- Direct, severe exposure to chemical products
- Any visible damage that may reduce protection level (distorsion of some parts, significant visible melting, etc.)



Cosmetic damages (e.g. superficial scratches, slight colour changes, limited paint peeling, etc.) do not affect the level of protection and do not require an advanced inspection.

Some of the control and maintenance work requires in-depth knowledge of the products.



WARNING!

Inspection and Maintenance operation listed in this manual must be performed only by personnel who have been trained and certified by MSA.

Failure to follow this warning can result in serious personal injury or death.

Advanced inspection includes verification of individual components to verify their conformity.

Components that are not directly visible from the outside must be disassembled. Detailed disassembling / reassembling procedures for all components are described in section 5 and 6 of this document.

4 Advanced Inspection and Conformity Criteria

⚠ WARNING!



- Inspection and Maintenance operation listed in this manual must be performed only by personnel who have been trained and certified by MSA.
- Use only genuine MSA replacement parts. Using non MSA parts will not only void warranty on the helmet, but also may reduce the protection level provided by the helmet.
- Use only MSA-approved parts. Do not alter, modify or substitute parts without the approval of MSA. Do not deviate from the maintenance and repair procedures contained herein unless approved in writing by MSA.
- Failure to follow the recommended inspection and maintenance procedures can reduce helmet performance and result in serious personal injury, disease, illness, or death.

Failure to follow these warnings can result in serious personal injury or death.

The following sections detail the instructions to:


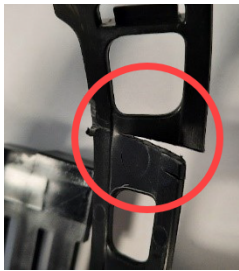
- Perform inspection of safety related components of the helmet.
- Check conformity to detect damaged parts requiring immediate replacement.
- Replace the damaged part with a new one.

4.1 Helmet Shell

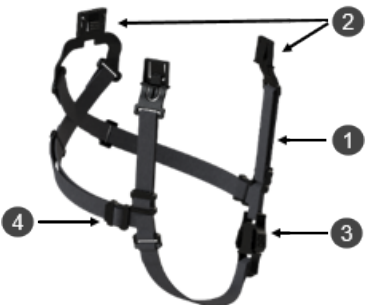
| Component | Helmet Shell, vented or unvented | |
|--------------------------------|---|---|
| Inspection zones | All, including accessory interface (pair). | |
| |  | |
| Discarding criteria | Major impact | Visible <u>inside</u> the helmet shell after disassembling the helmet. Such impacts show that the mechanical structure of the shell may be altered and that it should be replaced with a new one. |
| | Breakage | Visible cracks or holes that reduce the mechanical structure. Carefully check areas of connection with other elements (with suspension assembly, ocular visor). |
| | Accessory Interface | Damage interface, does not hold tight on the shell. |
| Views of possible damages | Superficial scratch (no discard) |  |
| Suggested replacement schedule | Not required unless damaged. | |




NOTE: Paint removal from the shell does not impact helmet compliance to protection performance requirements. It only alters the aspect of the helmet (cosmetic damage).

4.2 Suspension / Headband Assembly

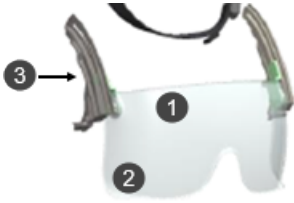

| Component | Suspension and Headband Assembly | |
|--------------------------------|---|--|
| Inspection zones | Ratchet knob ①, rotative nape strap ②, all plastic components | |
| |  | |
| Discarding criteria | Ratchet knob | Broken or damaged (blocked or loose). |
| | Clips / Fixation points | Damaged fixation points or clips, risk of losing the components. |
| | Plastic headband | Visible cracks or broken. |
| | Nape strap | Major distortion which prevents the normal use of the ratchet knob. |
| Views of possible damages | Broken headband |  |
| Suggested replacement schedule | Not required unless damaged. | |

4.3 Chinstrap

| Component | Chinstrap | |
|---------------------|---|---|
| Inspection zones | Check all straps ①, clips ②, buckle ③, adjusters ④ | |
| |  | |
| Discarding criteria | Locking Buckle | Buckle is not operating any more (blocked, not closing properly, opening without pressing). |
| | Straps, chinstrap cushion | Damaged strap/cushion (torn, burned, stiff, missing stitches, etc.). |
| | Clips and adjusters | Broken clip (preventing secured attachment to the helmet), broken |


| Component | Chinstrap | |
|--------------------------------|--|---|
| | | adjusters (blocked or loose). |
| Views of possible damages | Broken locking buckle |  |
| | Torn strap |  |
| | Torn chinstrap cushion |  |
| Suggested replacement schedule | Recommended every 3 to 5 years minimum for hygienic reasons. | |

4.4 Ocular Visor (Option)

| Accessory | Ocular visor (option) | |
|---------------------------|---|---|
| | Vision Area ①, non-vision area ②, attachment module ③ | |
| Inspection zones |  | |
| Discarding criteria | Vision area | Loss of varnish coating, cracks, visible impacts, major scratches (> 10 mm) in the field of vision. |
| | Non vision area | Visible cracks, holes that could impact mechanical structure of the visor. |
| | Attachment module | Mechanism not operating (too loose or blocked), broken clip. |
| Views of possible damages | Impacts and scratches on the Visor ocular area |  |

| | | |
|---------------------------------------|------------------------------|--|
| Accessory | Ocular visor (option) | |
| | Broken attachment module | |
| Suggested replacement schedule | Not required unless damaged. | |

4.5 Neck Curtain (Option)



| | | |
|---------------------------------------|---|--|
| Accessory | Nape neck curtain (option) | |
| Inspection zones | Clip fasteners ①, fabric ② | |
| |  | |
| Discarding criteria | Clip fasteners Fabric | Missing clips or broken |
| | Fabric | <ul style="list-style-type: none"> Holes through all layers Foreign object in between the layers > 2 cm² on the upper part of the neck curtain and > 4 cm² on the lower part of the neck curtain |
| Views of possible damages | Broken clip | |
| | Hole on the fabric | |
| Suggested replacement schedule | Not required unless damaged | |

5 Replacement Instructions for Spare Parts

5.1 Helmet Shell

Replacement Parts

Part No.

| | | |
|---|---|---|
| GA3712-XX Vented Shell | GA3712-BA (White) GA3712-JD (Yellow) GA3712-RE (Red) GA3712-VF (Photoluminescent - PL) GA3712-NA (Black) GA3712-YP (Hi-Viz Yellow PL) GA3712-OP (Hi-Viz Orange PL) GA3712-IM (Blue) GA3712-VA (Green) GA3712-NM (Grey) |  |
| GA3713-XX Unvented Shell | GA3713-BA (White) GA3713-JD (Yellow) GA3713-RE (Red) GA3713-VF (Photoluminescent PL) GA3713-NA (Black) GA3713-YP (Hi-Viz Yellow PL) GA3713-OP (Hi-Viz Orange PL) GA3713-IM (Blue) GA3713-VA (Green) GA3713-NM (Grey) |  |
| Unit of Sale | x 1 | |
| Specifications | Includes suspension holders (Lateral and rear) GA3718 and accessory interface (pair) GA3717 | |
| Weight | 520 g | |

Replacement Instructions

Tools required: None

| | | |
|---------------------|--|--|
| Removal | Disassemble the components as shown in the following paragraphs: | |
| | STEP 1: Ocular visor (optional device) | → 6.1 Ocular visor (Option) |
| | STEP 2: Suspension and headband | → 5.2 Suspension and Headband Assembly |
| | STEP 3: Chinstrap | → 5.3 Chinstrap |
| | STEP 4: Front plate | → 5.5 Front Plate |
| | STEP 5: Rear plate | → 5.4 Rear Plate |
| Installation | Mount the components as shown in the following paragraphs: | |
| | STEP 1: Rear plate | → 5.4 Rear Plate |
| | STEP 2: Front plate | → 5.5 Front Plate |
| | STEP 3: Chinstrap | → 5.3 Chinstrap |
| | STEP 4: Suspension & headband | → 5.2 Suspension and Headband Assembly |
| | STEP 5: Ocular visor (optional device) | → 6.1 Ocular visor (Option) |



5.2 Suspension and Headband Assembly

Replacement Parts

| | | |
|-----------------------|----------------------------|--|
| Part No. | GA3714 |  |
| Colour | Black | |
| Unit of Sale | x 1 | |
| Specifications | Includes Neck Pad (GA3716) | |
| Weight | 128 g | |


Replacement Instructions

Tools required: None

| | | |
|---------------------|--|--|
| Removal | <ol style="list-style-type: none"> 1. Press with your thumb the yellow tabs, (starting with the sides tabs and ending with the rear tab). 2. Release the suspension and headband from the slide, as shown. |  |
| Installation | <ol style="list-style-type: none"> 1. Mount the suspension on the slide (starting with the rear) and move it down up to the clip of the yellow tab. 2. Follow the same instruction for the left and right parts. |  |



5.3 Chinstrap

Replacement Parts

| | | |
|-----------------------|---|--|
| Part No. | GA3711 |  |
| Colour | Black | |
| Unit of Sale | x 5 | |
| Specifications | Includes chin and rear straps with textile paddings Includes connection buckle Textile made of flame retardant Protex | |
| Weight | 65 g / piece | |

Replacement Instructions

Tools required: None

| | | |
|---------------------|---|---|
| Removal | <ol style="list-style-type: none"> 1. Press on the black tab located by the clip to release it 2. Follow the same instruction for the 2 other tabs. |  |
| Installation | <ol style="list-style-type: none"> 1. On each side: insert the clip in its slot and fully push it inside the slot until it clicks 2. On the rear: Insert first the straps in between the rotative nape strap and the neck pad. Then follow the same instruction than on the sides |  |



5.4 Rear Plate

Replacement Parts

| | | |
|---------------------|-----------------------------|--|
| Part No. | GA3706 |  |
| Colour | Black with MSA printed logo | |
| Unit of Sale | x 5 | |
| Weight | 19 g / piece | |


Replacement Instructions

Tools required: None

| | | |
|---------------------|---|---|
| Removal | <ol style="list-style-type: none"> 1. Place the helmet upside down. 2. Press both black locking tabs simultaneously with your 2 thumbs as shown, to release the rear plate. |  |
| Installation | <ol style="list-style-type: none"> 1. Slide the rear plate with your thumbs until you hear the "click" sound. |  |



5.5 Front Plate

Replacement Parts

| | | |
|----------------------------|---|---|
| <p>Part No.</p> | <p>GA3707 (black plate) Specific part number for pad printed versions</p> |  |
| <p>Colour</p> | <p>Black</p> | |
| <p>Unit of Sale</p> | <p>x 5</p> | |
| <p>Weight</p> | <p>13 g / piece</p> | |


Replacement Instructions

Tools required: None

| | | |
|----------------------------|---|---|
| <p>Removal</p> | <ol style="list-style-type: none"> 1. Place the helmet upside down. 2. Push both black locking tabs simultaneously with your fingers, as shown, to release the front plate. |  |
| <p>Installation</p> | <ol style="list-style-type: none"> 1. Slide the front plate with your thumbs until you hear the "click" sound. |  |

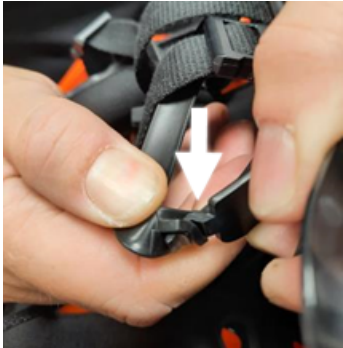

5.6 Neck Pad

Replacement Parts

| | | |
|-----------------------|---|--|
| Part No. | GA3716 |  |
| Colour | Black | |
| Unit of Sale | x 10 | |
| Specifications | Comfort neck pad made of soft elastomer | |
| Weight | 2 g / piece | |

Replacement Instructions

Tools required: None

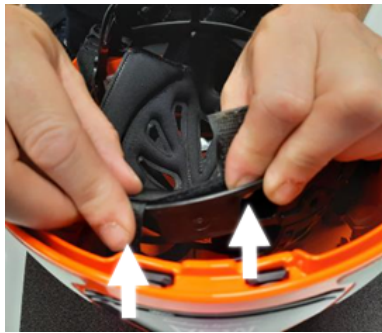
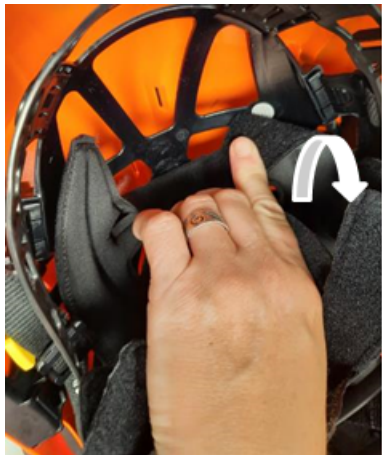
| | | |
|---------------------|--|--|
| Removal | <ol style="list-style-type: none"> 1. Gently twist the neck pad from the nape strap to release it. 2. Follow the same instruction on the other side. |  |
| Installation | <ol style="list-style-type: none"> 1. Insert the neck pad on the nape strap notch. 2. Follow the same instruction on the other side. |  |




5.7 Suspension Padding

| Replacement Parts | | |
|-----------------------|-----------------|--|
| Part No. | GA3715 |  |
| Colour | Black | |
| Unit of Sale | x 5 | |
| Specifications | 1 piece padding | |
| Weight | 25 g / piece | |

Replacement Instructions


Tools required: None

| | | |
|----------------|--|---|
| Removal | <p>1. Pull the 2 Velcro straps located on the front part of the headband and suspension assembly.</p> |  |
| | <p>2. Pull the suspension padding towards you to release it from the headband and suspension assembly.</p> |  |

| | | |
|---------------------|--|--|
| | <p>1. Place the suspension padding in the helmet (1 front/ 2 rear), as shown.</p> |  |
| Installation | <p>2. Attach the 2 Velcro straps on the front part of the headband and suspension assembly.</p> |  |
| | <p>3. Attach the padding on each light grey attachment dot. Make sure there is no fold left.</p> |  |


5.8 Nape Strap with Ratchet Knob




Replacement Parts

| | | |
|-----------------------|---|--|
| Part No. | GA3728 |  |
| Colour | Black | |
| Unit of Sale | x 5 | |
| Specifications | Rotative nape strap, ratchet wheel included | |
| Weight | 29 g / piece | |

Replacement Instructions


Tools required: None

| | | |
|----------------|--|---|
| Removal | <p>1. Rotate the nape strap inside the helmet to approx. 180° so that both plastic tabs are aligned. Then pull gently to release the nape strap.</p> |  |
|----------------|--|---|

| | | |
|---------------------|---|---|
| | 2. Follow the same instruction on the other side. | |
| Installation | 1. Align and insert both pieces together. |  |
| | |  |
| | 2. Rotate the parts together to attach them. |  |
| | 3. Follow the same instruction on the other side. | |


5.9 Goggle Mask Elastic Band Adapters (Pair)

Replacement Parts

| | | |
|----------------|---|--|
| Part No. | GA3722 |  |
| Colour | Black | |
| Unit of Sale | x 10 pairs | |
| Specifications | Flame retardant elastic bands with plastic clips to attach them to the helmet Set of 2 pieces (pair) | |
| Weight | 40 g / pair | |

Replacement Instructions

Tools required: None

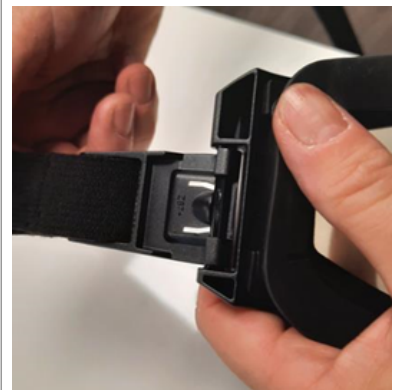
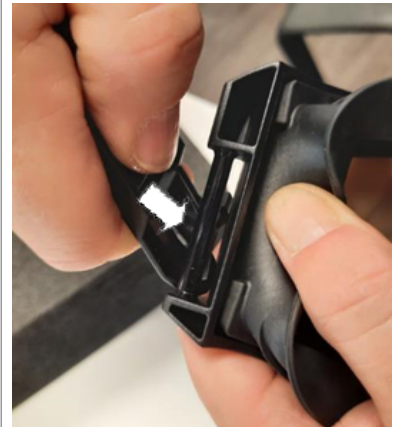
| | | |
|-----------------------|---|--|
| <p>Removal</p> | <ol style="list-style-type: none"> 1. Twist and pull the elastic band adapters 2. Follow the same instruction on the other side |  |
|-----------------------|---|--|

Installation

1. Hook the elastic band adapter on the black metallic bar.

NOTE: The elastic band adapters are marked L for LEFT side and R for RIGHT side. Make sure you install them on the correct side

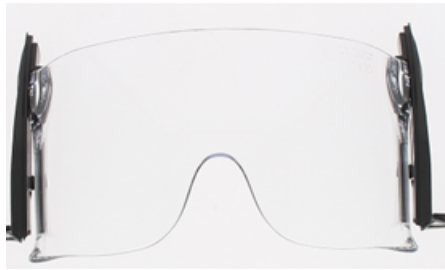
2. Follow the same instruction on the other side



6 Replacement Instructions for Accessories


6.1 Ocular visor (Option)

Replacement Parts

| | | |
|-----------------------|--|--|
| Part No. | GA3702 |  |
| Colour | Clear | |
| Unit of Sale | x 1 | |
| Specifications | EN14458:2018 with Antifog / Anti-scratch coating 2C-1.2: UV filter (EN 170) | |
| Weight | 100 g (+/- 10 g) | |

Replacement Instructions

Tools required: None

| | | |
|----------------|---|--|
| Removal | <ol style="list-style-type: none"> 1. Unclip the side attachment module on the right side, then on the left side. 2. Gently pull the visor out of the helmet. |  |
|----------------|---|--|

Installation

1. Position the attachment modules into the dedicated slots.
2. Push the ocular visor and secure the side attachment clips on each side.





6.2 Nape neck curtain (Option)

Replacement Parts

| | | |
|-----------------------|-----------------------------|--|
| Part No. | GA3709 |  |
| Colour | Dark Blue | |
| Unit of Sale | x 1 | |
| Specifications | 100% Aramid Length 15 cm | |
| Weight | 30 g (+/- 5 g) | |

Replacement Instructions

Tools required: None

| | | |
|---------------------|---|--|
| Removal | To remove the neck curtain, release the clips by pressing them. |  |
| Installation | <ol style="list-style-type: none"> 1. Place the neck curtain upside down above the helmet. 2. Insert the central clip. 3. Insert left and right clips. |  |

Some of the images shown in this document are 3D visuals. They are for illustrative purposes only and may differ from the actual product.

