



**Service and Maintenance Manual**

# **Gallet F1 XF**

**Helmet for Firefighters**

GB



Doc-No.: PQ730164/00



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# Safety Regulations

## 1. Safety Regulations

### 1.1. Correct Use

The Gallet F1 XF helmet - hereafter called helmet - is a safety helmet for the head intended for firefighters operations, such as fire fighting in buildings and other structures, rescue interventions and other typical tasks of fire brigades.

The helmet is designed for use with SCBA full face masks.

The helmet must be inspected and maintained by specially qualified and trained person.

The correct use of the helmet is described in the relevant operating manual of the helmet.



This Maintenance Specialist Manual is to be used in conjunction with the operating manuals of the devices.



### WARNING

This helmet is supporting life and health. Inappropriate use, maintenance or servicing may affect the function of the device and thereby seriously compromise the user's life.

Before use the helmet operability must be verified. The helmet must not be used if the function test is unsuccessful, it is damaged, a competent servicing/maintenance has not been made, genuine MSA spare parts have not been used.

It is imperative that this manual be read and observed when using the product. In particular, the safety instructions, as well as the information for the use and operation of the product, must be carefully read and observed. Furthermore, the national regulations applicable in the user's country must be taken into account for a safe use.

Alternative use, or use outside this specification will be considered as non-compliance. This also applies especially to unauthorised alterations to the product and to commissioning work that has not been carried out by MSA or authorised persons.

### 1.2. Liability Information

MSA accepts no liability in cases where the product has been used inappropriately or not as intended. The selection and use of the product are the exclusive responsibility of the individual operator.

Product liability claims, warranties also as guarantees made by MSA with respect to the product are voided, if it is not used, serviced or maintained in accordance with the instructions in this manual.

## 2. Description

The helmet provides protection of head and face against shocks, sharp objects, splatters of solid, liquid, corrosive, chemical products (sulfuric acid, sodium hydroxide, p-xylene, butan-1-ol, n-heptane...), molten metals, radiating heat, flames, electric current.

In situations where the conditions exceed those described in the specifications mentioned above, the protection of the user is not guaranteed.

The clear or gold coated face shield protects against various risks likely to arise during firefighting interventions, ambulance and emergency services, except respiratory and smoke and gas / vapour emission risks. The face shield resists the splatter of chemical products identical to those of the helmet mentioned above.

## 3. Maintenance

### 3.1. Inspection, Conformity and Maintenance Individual Sheets

Some of the control and maintenance operations require in depth knowledge of the products.



#### CAUTION

MSA highly recommends that service / maintenance technicians are trained by an authorized MSA partner or by local MSA affiliate to perform efficiently the inspection and parts replacement processes.


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

This may require some disassembling processes if there is a need to verify a component which is not directly visible (ex: verification of Impact Liner condition after a severe impact on the shell).



#### CAUTION

Use only genuine MSA parts when replacing defective ones. Using non MSA parts will not only void warranty on the helmet, but may reduce the protection level provided by the Gallet F1 XF fire helmet.

Components that are particularly critical to safety of the product, such as suspension, shell and impact liner, are marked with .

Treat such parts with special attention and care during inspection and assembly.

### 3.2. Recommended Service and Maintenance Schedule

Gallet F1 XF fire helmets are Category III Personal Protective Equipment according to the European Directive 89/686/CE and 89/656/CE. Regular inspection and adapted maintenance shall be performed to ensure the proper condition of the equipment for its intended use and protection levels.

MSA recommends to fully inspect the helmet at least every 2 years, or more frequently if the helmet is often exposed to extremely severe conditions. In cases where frequency of use is very low and none of below mentioned exposures and damages is recorded, an inspection should be performed at least every 4 years. Local regulations must apply.

Systematically perform a full inspection if the helmet is exposed to the following conditions:

- Severe mechanical impact (falling objects, fall, compression, etc.)
- Direct, severe exposure to flames and/or extreme heat
- Direct, severe exposure to chemical products or molten metal
- Any visible defect that may reduce protection level such as:
  - Parts that are melted, deformed, broken, missing or non-operational.
  - Significant scratches/ coating removal on shell or visors.
  - Torn straps or paddings.



“Cosmetic” defects (minor scratches, slight colour change, etc.) do not have any impact on protection levels and do not require a complete inspection.

# Maintenance

## 3.3. Intervals

### Daily Inspection

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

- Cracks, breakages, major plastic distortion (bumps) on shell, visors and all solid elements.
- Missing shell coating (paint, metal coating) on large surfaces.
- Damaged straps or fabric elements (holes, torn areas, missing stitches, etc.).

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



### CAUTION

In case of doubt, do not use the helmet and ask for a complete inspection or replacement of the defective components.

### Cleaning after Use



Cleaning the helmet helps extending its life time 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).

- **Helmet shell:** clean with a soft cloth (to avoid scratches) and soapy water (do NOT use solvent based products).
- **Face shield / Visor:** clean with a soft cloth and soapy water. Solvent based products may damage the coating and reduce visor performance.
- **Inner paddings:** take them out of the helmet for easier cleaning.
  - Textile paddings: they can be machine washed (30 °C).
  - Leather paddings: clean with a soft cloth and soapy water.
- **Paddings:** exchanged with new / clean ones.

## 3.4. Storage

### NOTICE


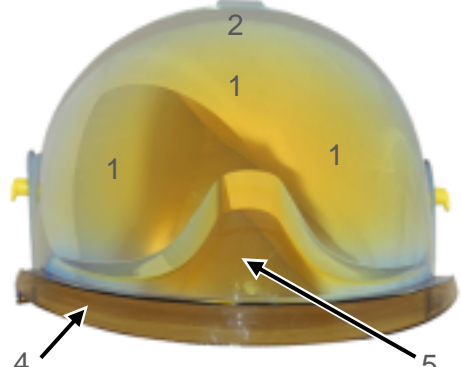
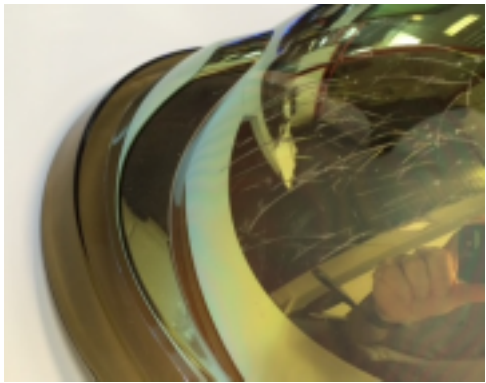

Proper helmet storage eliminates risk of pollution created by the environment (vehicle fumes, extended sun exposure, moisture, etc.).

After cleaning, inspect your helmet for visible damages before storing it. In case of doubt, do not use the helmet and ask for a complete inspection or replacement of the defective components.

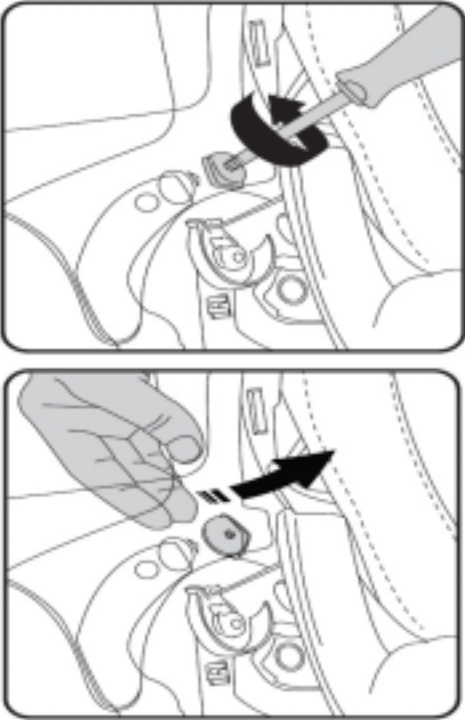
- Store the helmet in an area where it not exposed to the following hazards / elements:
  - Exhaust fumes.
  - High Temperature variation (i.e. beside a sun exposed window).
- Store the helmet in a closed cabinet, and/or, if supplied with the helmet, in a carrying bag.
- Let the textile helmet components (paddings, neck curtains) dry before putting the helmet in a closed area / carrying bag.
- Never hang / carry the helmet by the chinstrap.

# Face Shield – Gold and Clear Versions

## 4. Face Shield – Gold and Clear Versions

<p><b>Inspection zones</b></p>	<p>Vision area (fully polished, above the nose shape) – (1) Non-vision area: textured zone (2), side (3) and lower (4) regions, including the nose shape (5)</p> 	
<p><b>Discarding criteria</b></p>	<p>Vision area (1)</p>	<p>Major scratches impairing vision Presence of multiple stains on the face shield</p>
	<p>Full visor</p>	<p>Presence of cracks or broken areas Major distortion due to heat exposure Significant removal of varnish or metal coating (metal version only) &gt; 2 cm<sup>2</sup></p>
<p><b>Views of possible defects</b></p>	<p>Major scratches in vision area</p>	
	<p>Cracked face shield</p>	
<p><b>Suggested Replacement schedule</b></p>	<p>Not required unless damaged</p>	
<p><b>Replacement parts</b></p>	<p>GA1086A</p>	<p>Gallet F1 XF face shield, clear version</p>

# Face Shield – Gold and Clear Versions

	GA1086B	Gallet F1 XF face shield, gold version
<b>Tools needed</b>	Torx 15	
<b>Replacement Instructions</b>	<p>Removal:</p> <ol style="list-style-type: none"> <li>(1) Move down the face shield to the in-use position.</li> <li>(2) Invert the helmet.</li> <li>(3) Unlock the upper face shield's clips by rotating them at 180° (facing the opposite direction from the engraved lock), using a Torx 15 tool</li> <li>(4) Push the visor inwards, so that the upper clips get out of the rail</li> <li>(5) Rotate the top of the visor away from the helmet.</li> <li>(6) Slide the lower clips towards the top of the rail pushing the visor inwards to release the visor from the helmet</li> </ol>	
<b>Installation</b>	<ol style="list-style-type: none"> <li>(1) Invert the helmet.</li> <li>(2) Insert the lower clips in the lower rail</li> <li>(3) Pull them to the end of the sliding rail (corresponding to the in-use position of the face shield), leaving the upper clips outside the helmet shell.</li> <li>(4) Rotate the top of the visor towards the helmet and gently push the visor inwards to insert the upper clips in their location.</li> <li>(5) Lock the upper clips rotating them at 180° (facing the engraved lock), using a Torx 15 tool.</li> <li>(6) Move the face shield back to the out-of-use position.</li> </ol>	

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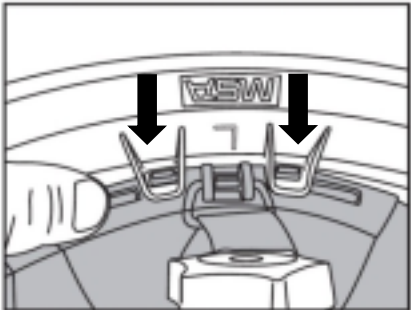


# Helmet Shell (Medium or Large)

## 5. Helmet Shell (Medium or Large)

<b>Inspection zones</b>	<p>Zone A: Upper shell (above the dotted line shown below), including upper edge          Zone B: Lower shell (under the line), including lower edge.          Face shield rails, locating slots (rear), locating pin for the ocular visor attachment.</p>	
		<p>Face shield rails</p>
<b>Discarding criteria</b>	Missing Paint / Coating	<p>Paint / coating is missing on a large surface (&gt; 2 cm<sup>2</sup> on zone A, &gt; 4 cm<sup>2</sup> on zone B)          Minor scratches should not be considered as a discarding criteria.</p>
	Major impact	<p>Visible inside 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.</p>
	Shell Breakage	<p>Visible cracks or holes that reduce the mechanical structure          Carefully Check areas of connection with other elements (with suspension assembly, face shield, ocular visor)</p>
	Face shield Rails	<p>Damage rails, rails separated from the shell</p>
<b>Views of possible defects</b>	Missing paint on the shell	

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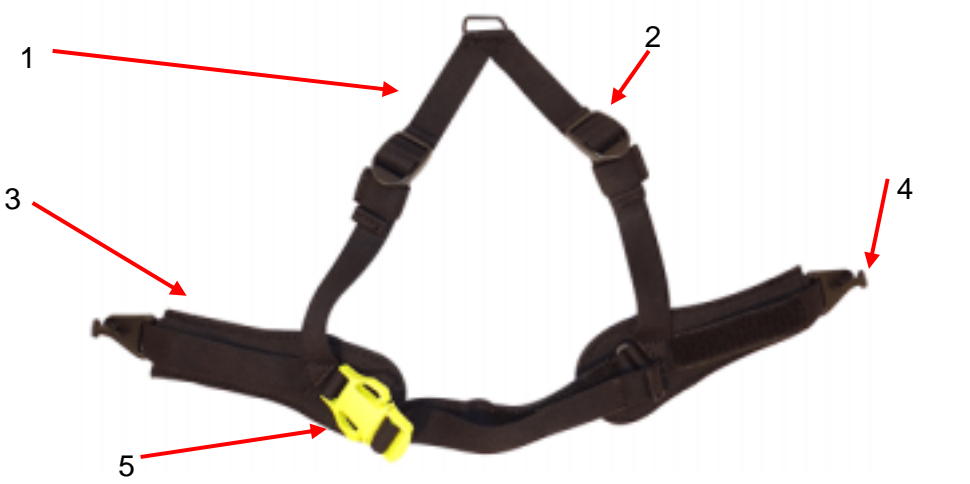



# Helmet Shell (Medium or Large)

<b>Suggested Replacement schedule</b>	Not required unless damaged	
<b>Replacement parts</b>	GA1090-xxL	Shell, Gallet F1 XF, Large size
	GA1090-xxM	Shell, Gallet F1 XF, Medium size
	xx	Color Code BA: White / JD: Yellow / RE: Red / VF: Photoluminescent / NA: Black / JL: Hi-Viz Yellow / OB: Hi-Viz Orange / AA: Blue / VA: Green / NB: Grey / BO: White w/ black comb
	GA1027	Locking Screws (set of 50 pcs)
<b>Tools needed</b>	Torx 20	
<b>Replacement Instructions</b>	Removal:	 <p>Fig. 1</p>  <p>Fig. 2</p>
	<ol style="list-style-type: none"> <li>(1) Extract the inner module (liner, suspension, headband) by removing the attachment screws (see Fig. 1)</li> <li>(2) Sliding it out of the shell from the front by pushing the rear clips out of their lugs (see Fig. 2)</li> <li>(3) Remove the face shield (refer to face shield section)</li> <li>(4) Remove the kit Fix assembly (refer to KitFix Mask Attachment Assembly)</li> </ol>	
<b>Installation</b>	<ol style="list-style-type: none"> <li>(1) Install the kit Fix assembly (see KitFix Mask Attachment Assembly)</li> <li>(2) Install the face shield (see face shield section)</li> <li>(3) Install the inner module, sliding it inside the shell until rear locating clips are properly positioned in their lugs (see Fig. 3)</li> <li>(4) Lock the inner module using two new screws (pre-impregnated screw to ensure proper locking) (see Fig. 4)</li> </ol>	 <p>Fig. 3</p>  <p>Fig. 4</p>

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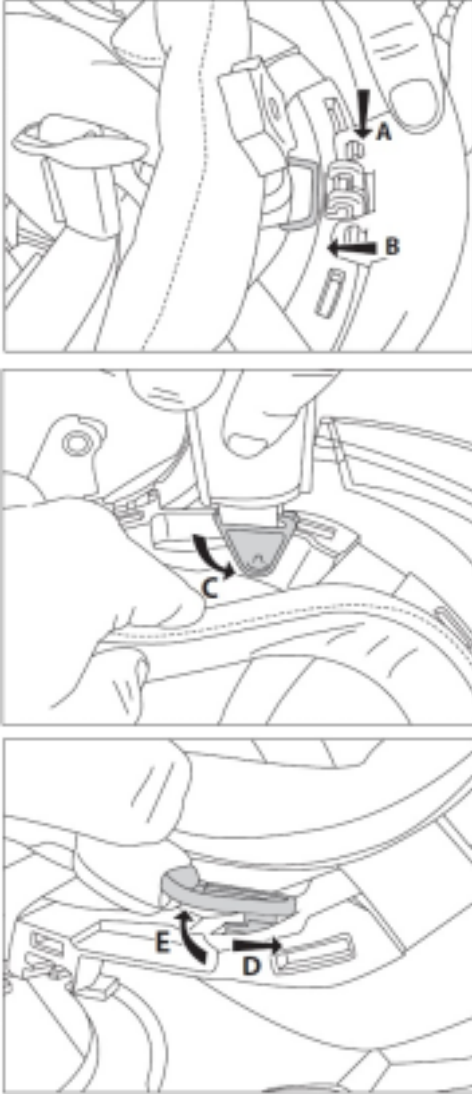
# Chinstrap, Leather or Nomex Versions

## 6. Chinstrap, Leather or Nomex Versions

<p><b>Inspection points</b></p>	<p>Check all straps (1), adjusters (2), paddings (3), clips (4) and buckle (5)</p>	
		
<p><b>Discarding criteria</b></p>	<p>Locking Buckle</p>	<p>Buckle is not operating any more (blocked or not closing)</p>
<p>Straps, paddings</p>		<p>Damaged strap or padding (torn, burned, missing stitches, etc.), stiff padding due to extreme heat exposure, etc.</p>
<p>Clips and adjusters</p>		<p>Broken clip (preventing secured attachment to the helmet), broken adjusters (blocked or loose).</p>
<p><b>Views of possible defects</b></p>	<p>Broken locking buckle</p>	
<p>Torn strap</p>		
<p>Torn chinstrap padding</p>		

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# Chinstrap, Leather or Nomex Versions

<b>Suggested Replacement Schedule</b>	Recommended every 3 to 5 years minimum for hygienic reasons.	
<b>Replacement parts</b>	GA1128A	Chinstrap, Gallet F1 XF, textile
<b>Replacement Instructions</b>	<p>Removal:</p> <ol style="list-style-type: none"> <li>(1) Unlock the rear attachment point by pushing it out of the hook, down (A) and front (B)</li> </ol> <p>On each side:</p> <ol style="list-style-type: none"> <li>(2) Bring the strap to the horizontal position (C).</li> <li>(3) Push the clip forward (D) and raise it on the back to release it from its slot (E).</li> </ol>	

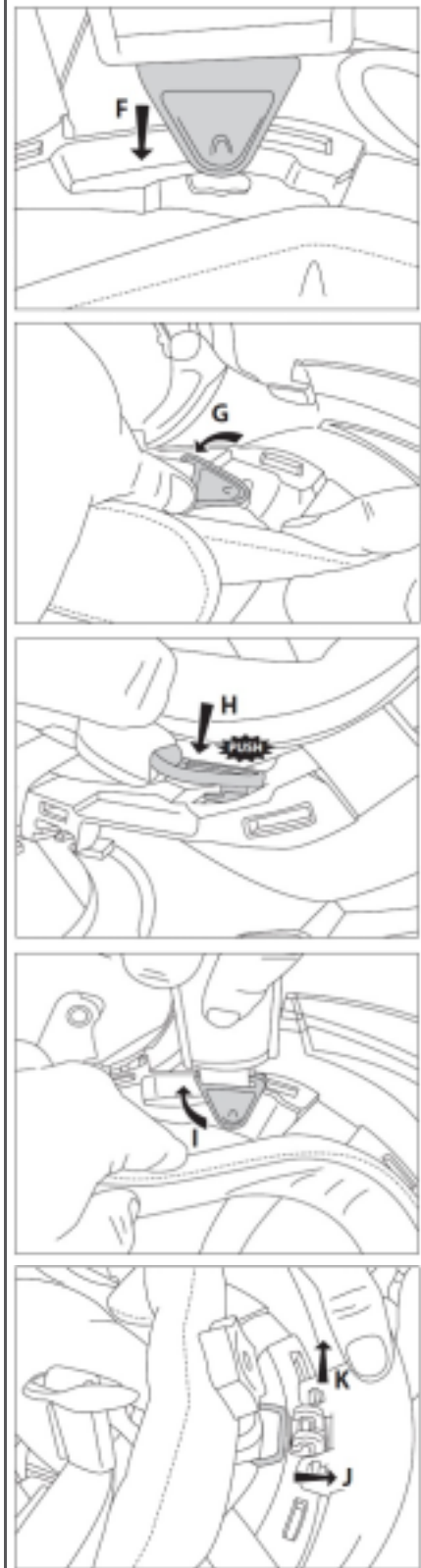
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# Chinstrap, Leather or Nomex Versions

## Installation

On each side

- (1) Insert the clip in its slot vertically (**F**).
- (2) Rotate the strap to the horizontal position (**G**).
- (3) Fully push the clips inside the slot until it clicks (**H**).
- (4) Rotate the strap back to the vertical position (**I**).
- (5) Lock the rear attachment point by pushing it into the hook back (**J**) and up (**K**).



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# Comfort Paddings, Leather or Textile

## 7. Comfort Paddings, Leather or Textile


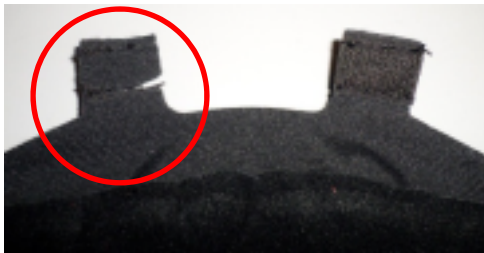
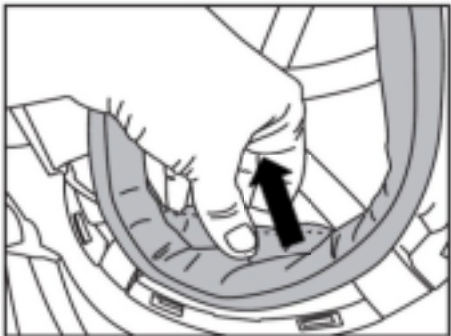

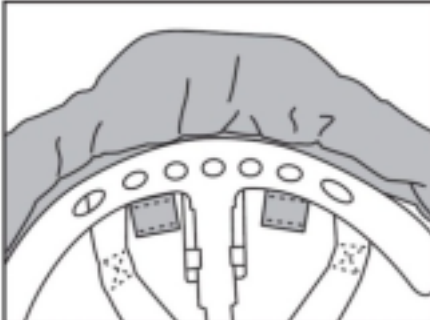

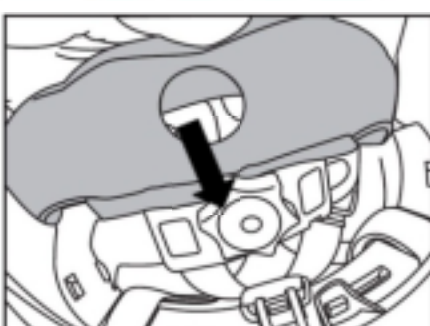
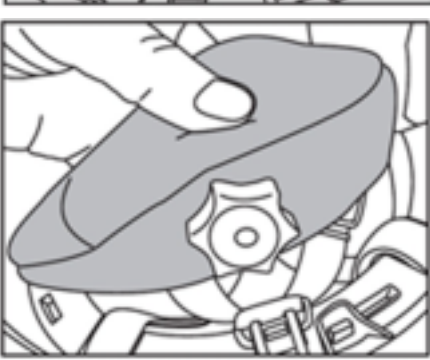
<b>Inspection zones</b>	All areas, attachment velcros and all threads	
<b>Discarding criteria</b>	Fabric  Velcro	Damaged fabric or leather (holes, tears, stiffness, etc.), missing stitches resulting on foam being visible and exposed. Visible damage due to contamination with liquid chemicals  Missing / damaged Velcro
<b>Views of possible defects</b>	Torn fabric	
	Missing Velcro	
<b>Suggested Replacement schedule</b>	Recommended every 3 to 5 years minimum (Comfort and hygienic recommendation).	
<b>Replacement parts</b>	GA1129A	Comfort padding, Gallet F1 XF, Textile
	GA1129B	Comfort padding, Gallet F1 XF, Leather
<b>Replacement Instructions</b>	Removal:  (1) Remove the comfort paddings from the headband, by detaching the velcros on both the rear (see Fig. 1) and front paddings (see Fig. 2).	
		

Fig. 1

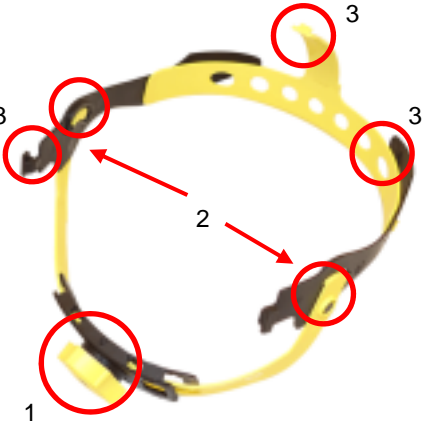





# Comfort Paddings, Leather or Textile

			Fig. 2
<p><b>Replacement Instructions</b></p>	<p>Installation:</p> <p>Front padding:</p> <ol style="list-style-type: none"> <li>(1) Install the front padding by sliding the velcros on each side of the yellow front headband part (see Fig. 3)</li> <li>(2) Fold it to attach it properly (see Fig. 4).</li> <li>(3) Attach the side velcros around the black side headband parts.</li> </ol> <p>Rear padding</p> <ol style="list-style-type: none"> <li>(1) Install the rear padding by sliding the ratchet knob through the hole (see Fig. 5)</li> <li>(2) Attach the velcro under the headband (see Fig. 6).</li> </ol>		Fig. 3
	Fig. 4		
	Fig. 5		
	Fig. 6		

# Headband Assembly


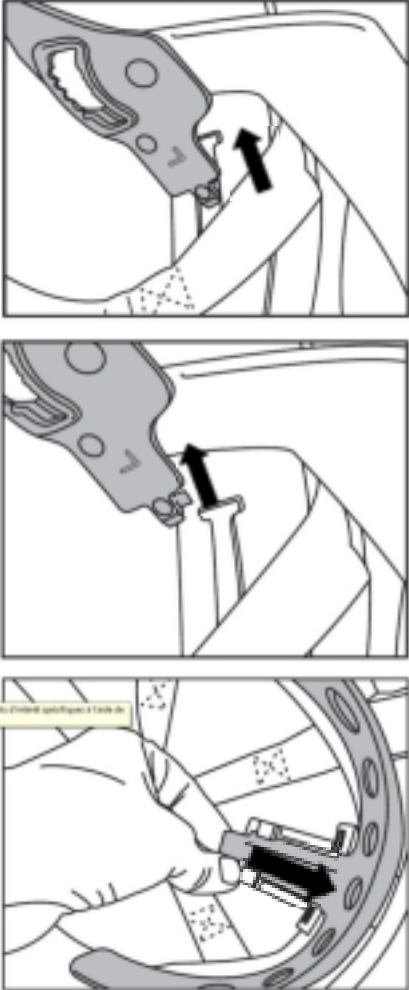
## 8. Headband Assembly

<p><b>Inspection zones</b></p>	<p>Ratchet knob mechanism (1), connection points (2) and attachment clips (3) and all plastic components.</p> 	
<p><b>Discarding criteria</b></p>	<p>Ratchet knob</p>	<p>Damaged / Broken ratchet adjustment (locked or fully loose)</p>
	<p>Attachment clips</p>	<p>Damaged attachment clips and connecting points between parts, resulting in risk of separation between the headband and the helmet or between headband components</p>
	<p>Plastic headband</p>	<p>Cracked or broken plastic components</p>
<p><b>Views of possible defects</b></p>	<p>Broken clip</p>	
	<p>Broken plastic part</p>	
<p><b>Suggested Replacement schedule</b></p>	<p>Not required unless damaged</p>	

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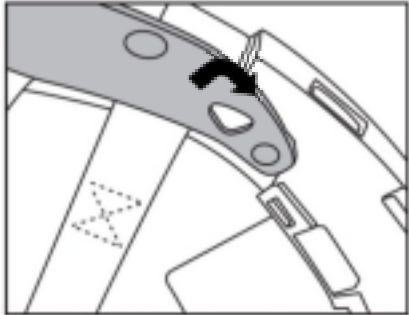
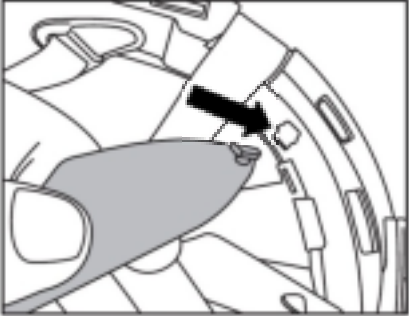
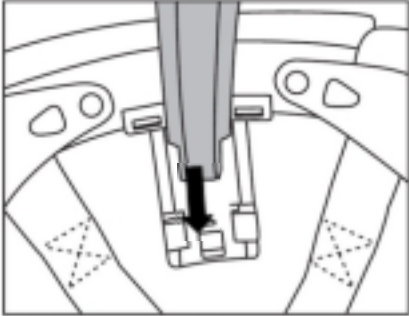
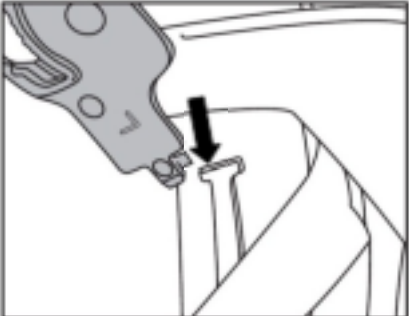


# Headband Assembly

<p><b>Replacement parts</b></p>	<p>GA1098A</p> <p>Spare headband assembly comes in the M (medium) position. Change the side attachment to fit it into an L (Large) helmet.</p>	<p>Headband assembly, Gallet F1 XF</p>  <p>M adjustment</p> <p>L adjustment</p>
<p><b>Replacement Instructions</b></p>	<p>Removal:</p> <ol style="list-style-type: none"> <li>(1) Release the 2 rear attachments by sliding them through the wider area of the groove (see Fig. 1a and Fig 1b).</li> <li>(2) Slide the yellow front part out of its rail (see Fig. 2)</li> <li>(3) Release the front attachment by bringing them in a vertical position to get out of the slots (see Fig. 3).</li> </ol>	 <p>Fig. 1a</p> <p>Fig. 1b</p> <p>Fig. 2</p>

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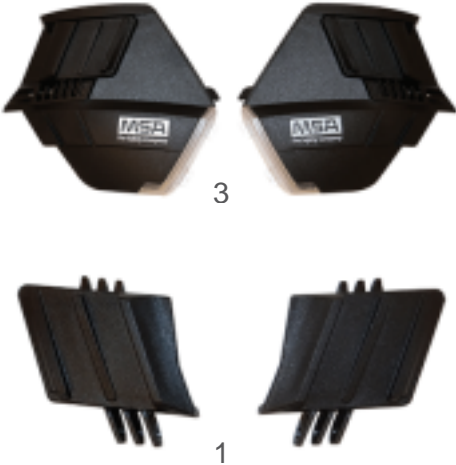
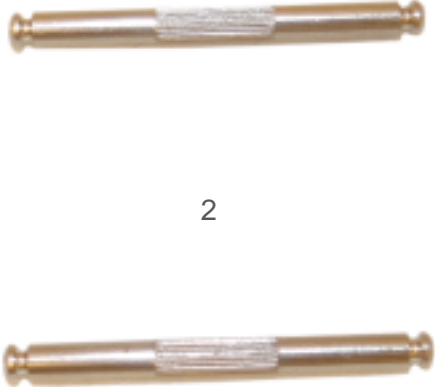

# Headband Assembly

		 <p>Fig. 3</p>
	<p>Installation:</p> <ol style="list-style-type: none"><li>(1) Attach the black side parts by inserting them vertically in their slot</li><li>(2) Rotate them once the attachment clip is properly inserted (see Fig. 4).</li><li>(3) Insert and slide the yellow front part through its rail (see Fig. 5).</li><li>(4) Complete the installation by inserting the two rear attachment points through the mounting groove (see Fig. 6).</li></ol>	 <p>Fig. 4</p>  <p>Fig. 5</p>  <p>Fig. 6</p>

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# KitFix Mask Attachment Assembly

## 9. KitFix Mask Attachment Assembly

<b>Inspection zones</b>	Mobile mask attachment modules (1), locking pin (2), base modules with internal lighting compartment (3)	
		
<b>Discarding criteria</b>	Locking Pin	Missing or damaged
	Mobile module	Cracks, other visible damage or melting
	Base module	Melted parts, visible cracks, in particular in the area of attachment of the mobile module, separation from the shell.
<b>Views of possible defects</b>	Missing Pin	
<b>Suggested Replacement schedule</b>	Not required unless damaged	
<b>Replacement parts</b>	GA1092A	Complete Kit Fix module, Gallet F1 XF, pair Includes base module, mobile module and locking pin.
	GA1092B	Kit Fix mobile module (incl. locking pin), pair
	GA1092C	Kit Fix PN mobile module (incl. locking pin), pair
	GA1059	Kit Fix locking Pin, set of 10 pcs

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# KitFix Mask Attachment Assembly

## Replacement Instructions

### Removal:

To change the pin and/or the mobile module only using a flat screwdriver

- (1) Slide the pin out of its groove (see Fig. 1).
- (2) Separate the mobile module from the fixed base (see Fig. 2).
- (3) Change the complete assembly (include base module) by extract the helmet inner module – see suspension section
- (4) Strongly push the kitfix through the hole in the shell (see Fig. 3) until it gets separated from the shell (see Fig. 4).

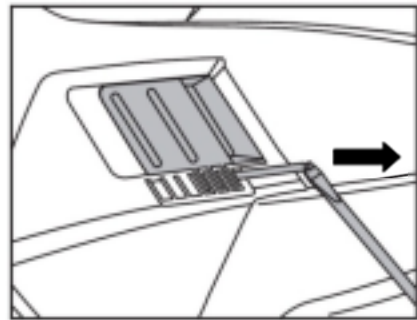


Fig. 1

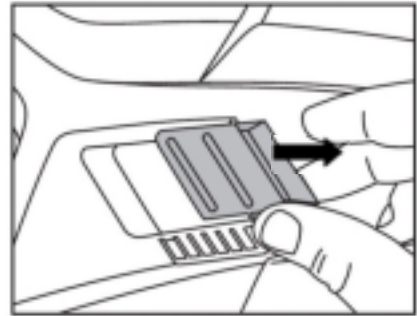


Fig. 2

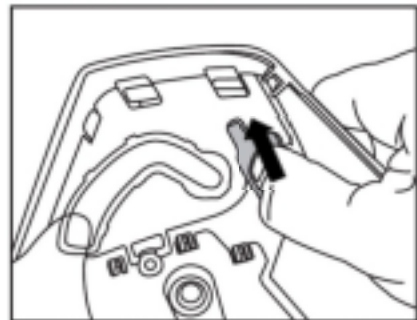
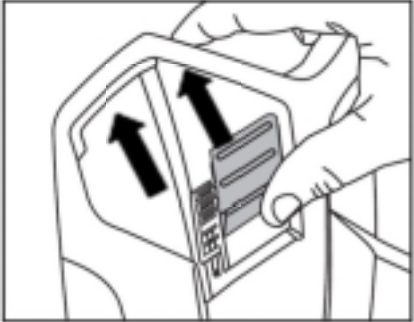
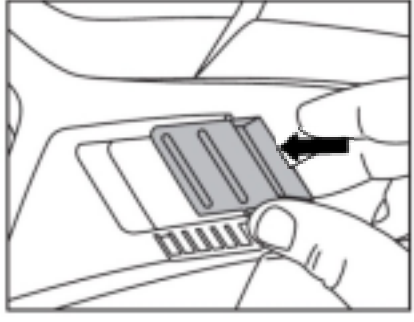
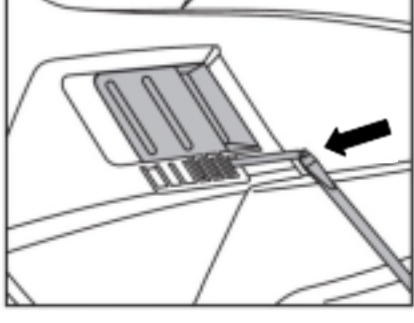


Fig. 3



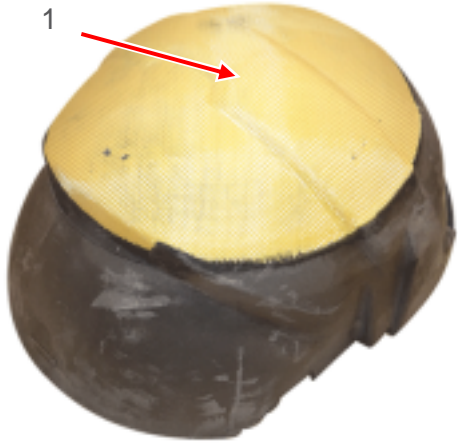


Fig. 4

# KitFix Mask Attachment Assembly

<p><b>Replacement Instructions</b></p>	<p>Installation:</p> <p>For the complete module</p> <ol style="list-style-type: none"><li>(1) Insert the front clips in the shell lugs first</li><li>(2) Strongly push the base module forward (see Fig. 5) until it is clipped properly.</li></ol> <p>For pin and mobile module only</p> <ol style="list-style-type: none"><li>(1) Position the mobile module (see Fig. 6) on the base in the required position (position depends on required mask pressure and should be identical on both sides)</li><li>(2) Insert the pin in the groove</li><li>(3) Push it until it is blocked with a flat screwdriver (see Fig. 7).</li><li>(4) Re-install the helmet inner module – see Suspension Assembly, M or L size</li></ol>	 <p>Fig. 5</p>  <p>Fig. 6</p>  <p>Fig. 7</p>
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# Impact Liner (L or M size)

## 10. Impact Liner (L or M size)

<b>Inspection points</b>	Inspect the outer side with the aramide layer (1) and the inner side of the liner (2).	
		
<b>Discarding criteria</b>	Entire Liner	Visible cracks, broken parts, missing elements, visible impacts
	Aramide layer	Significant separation from the impact liner
<b>Views of possible defects</b>	Cracked liner	
<b>Suggested Replacement schedule</b>	Not required unless damaged	
<b>Replacement parts</b>	GA1095-M	Impact Liner, Gallet F1 XF, Medium
	GA1095-L	Impact Liner, Gallet F1 XF, Large
	GA1027	Locking Screws (set of 50 pcs)
<b>Tools needed</b>	Torx 20	

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## Impact Liner (L or M size)

### Replacement Instructions

#### Removal:

- (1) Extract the inner module (liner, suspension, headband) by removing the attachment screws (see Fig. 1).
- (2) Sliding it out of the shell (see Fig. 2).
- (3) Separate the impact liner from the suspension ring (see Fig. 3a and Fig. 3b), starting from the rear attachment area.

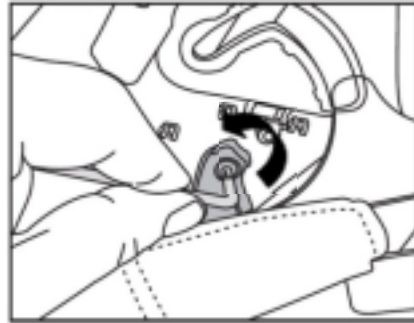


Fig. 1

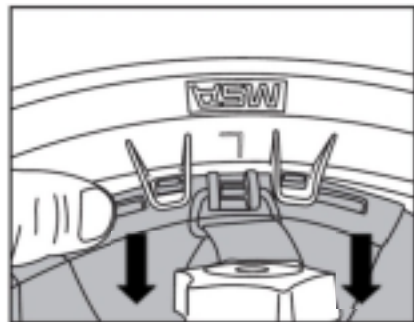


Fig. 2

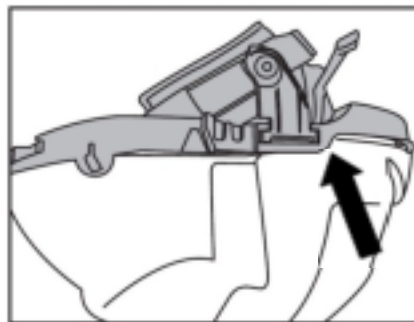


Fig. 3a

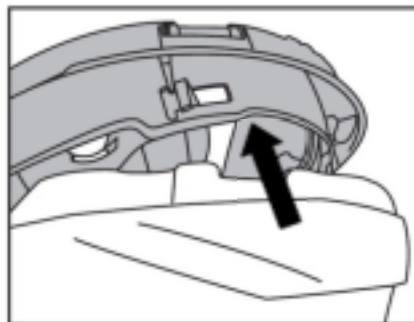


Fig. 3b



# Impact Liner (L or M size)

## Replacement Instructions

Installation:

- (1) Connect the impact liner to the suspension ring (see Fig. 4a and Fig. 4b), starting from the front attachment area.
- (2) Install the inner module by sliding it inside the shell until rear locating pins are properly positioned (see Fig. 5).
- (3) Lock the inner module using two new screws (pre-impregnated screw to ensure proper locking) (see Fig. 6).

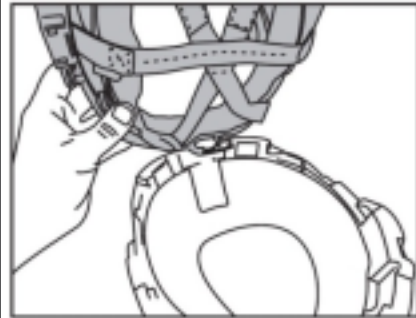


Fig. 4a

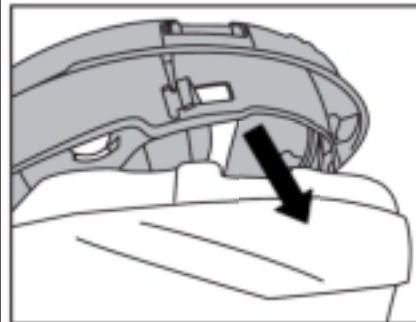


Fig. 4b

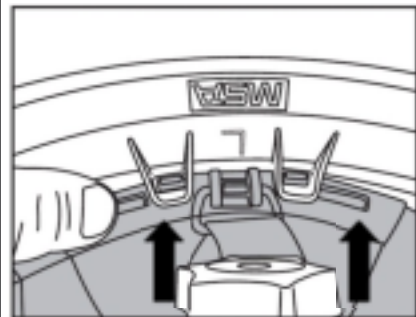


Fig. 5



Fig. 6



# Suspension Assembly, M or L size

## 11. Suspension Assembly, M or L size

<b>Inspection zones</b>	Suspension ring (1), front headband rail (2), Suspension straps (3) with mounting clips (4)	
		
<b>Discarding criteria</b>	Suspension straps	Torn or damaged strap, damaged or missing adjustment Velcro strap (yellow)
	Ring	Cracked or broken ring
	Headband rail	Cracked or broken rail
	Mounting clips	Missing or damaged clip (loose)
<b>Views of possible defects</b>	Torn suspension strap	
	Damaged headband rail	
<b>Suggested Replacement schedule</b>	Not required unless damaged	
<b>Replacement parts</b>	GA1094-M	Suspension, Gallet F1 XF, Medium
	GA1094-L	Suspension, Gallet F1 XF, Large
	GA1027	Locking Screws (set of 50 pcs)
<b>Tools needed</b>	Torx 20	

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# Suspension Assembly, M or L size

## Replacement Instructions

### Removal:

- (1) Separate the chinstrap and the headband (see chinstrap and headband sections)
- (2) Removing the attachment screws (see Fig. 1) of the inner module (liner, suspension, headband)
- (3) Sliding the inner module out of the shell (see Fig. 2).
- (4) Separate the impact liner from the suspension ring (see Fig. 3a and Fig. 3b), starting from the rear attachment area.



Fig. 1

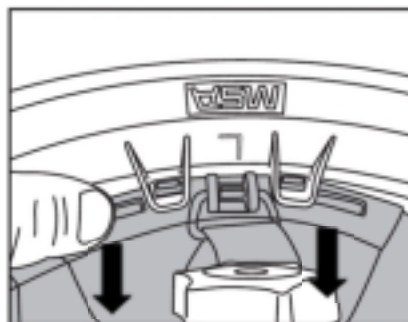


Fig. 2

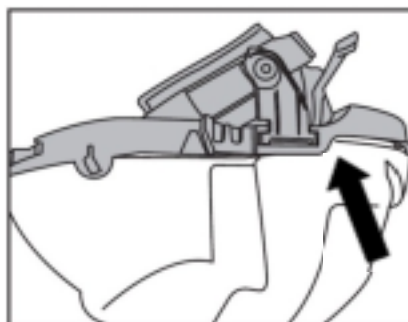


Fig. 3a

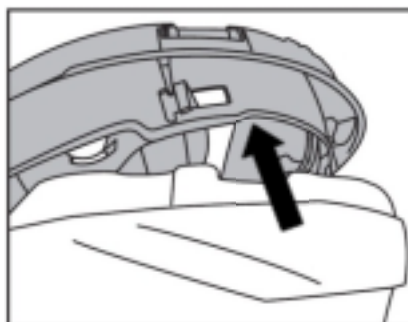


Fig. 3b

# Suspension Assembly, M or L size

## Replacement Instructions

### Installation:

- (1) Connect the impact liner to the suspension ring (see Fig. 4a and 4b), starting from the front attachment area.
- (2) Install the inner module, sliding it inside the shell until rear locating pins are properly positioned (see Fig. 5).
- (3) Lock the inner module using two new screws (pre-impregnated screw to ensure proper locking) (see Fig. 6).
- (4) Install the headband and the chinstrap (see Chinstrap, Leather or Nomex Versions and Headband Assembly)

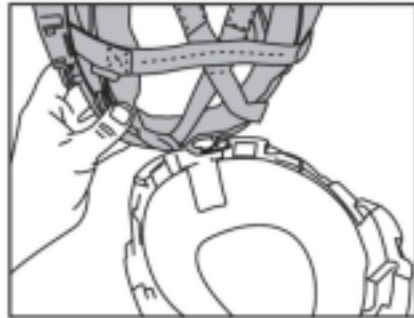


Fig. 4a

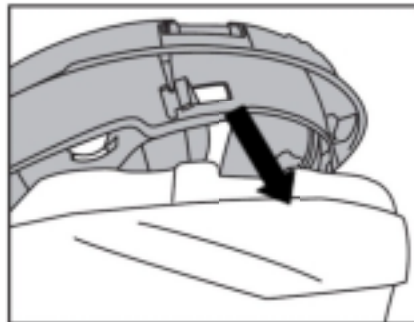


Fig. 4b

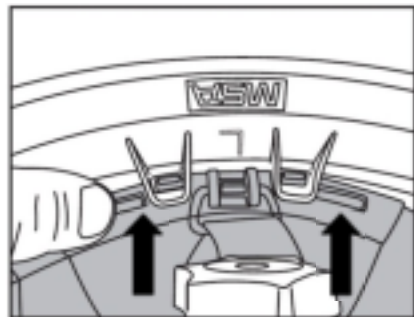





Fig. 5




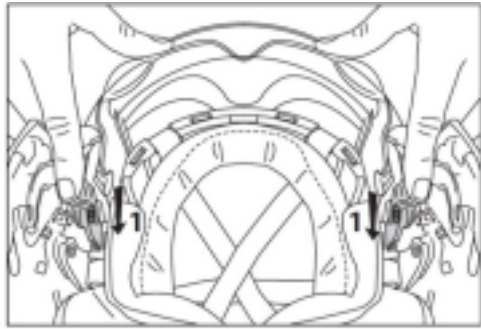
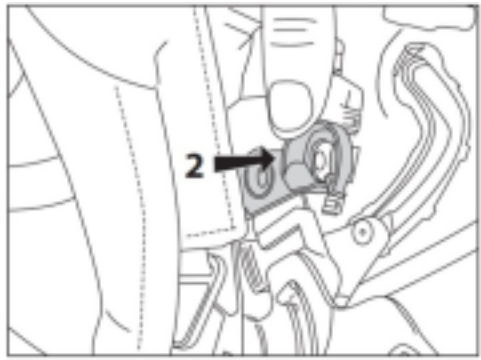
Fig. 6

# Ocular Visor (Option)

## 12. Ocular Visor (Option)

<p><b>Inspection zones</b></p>	<p>Vision Area (1), non-vision area (2), Attachment module (3)</p> 	
<p><b>Discarding criteria</b></p>	<p>Vision area</p>	<p>Loss of varnish coating, cracks, visible impacts, major scratches (&gt; 10 mm) in the field of vision.</p>
<p></p>	<p>Non vision area</p>	<p>Visible cracks, holes that could impact mechanical structure of the visor.</p>
<p></p>	<p>Attachment module</p>	<p>Mechanism not operating (too loose or blocked), broken clip</p>
<p></p>	<p>Full visor</p>	<p>Cracked, broken or distorted because of heat exposure</p>
<p><b>Views of possible defects</b></p>	<p>Impacts and scratches on the Visor ocular area</p>	




# Ocular Visor (Option)

<b>Views of possible defects</b>	Broken attachment module	
<b>Suggested Replacement schedule</b>	Not required unless damaged	
<b>Replacement parts</b>	GA1087A	Ocular Visor, Gallet F1 XF
<b>Tools needed</b>	None	
<b>Replacement Instructions</b>	Removal:  (1) Unclip the side attachment module on the right side (2), then on the left side.  (2) Gently pull the visor out of the helmet (1)	
	Installation:  (1) Position the attachment modules into the dedicated slots (1)  (2) Push the ocular visor and secure the side attachment clips on each side (2)	

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# Front Plate

## 13. Front Plate

<b>Inspection zones</b>	Front plate (1)	
		
<b>Discarding criteria</b>	Visible area	The front plate has no protective function. It may be replaced if it is damaged, e.g. broken, melted or scratched
		A damaged front plate could be an indicator for strong mechanical or thermal exposure to the helmet, requiring further inspection of the whole helmet.
<b>Suggested Replacement schedule</b>	Not required unless damaged	
<b>Replacement parts</b>	GA1050-xx	Frontplate Gallet F1 XF
	xx	Color Code BA: White / JD: Yellow / RE: Red / VF: Photoluminescent / NA: Black / JL: Hi-Viz Yellow / OB: Hi-Viz Orange / AA: Blue VA: Green / NB: Grey There exist specific codes for customized front plates.
<b>Tools needed</b>	GA1151	Disassemble tool for front plate F1 XF

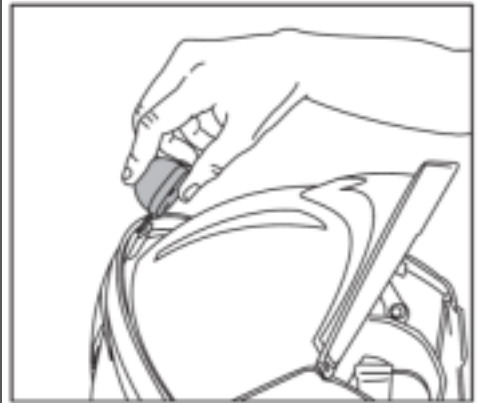
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# Front Plate

## Replacement Instructions

### Removal:

- (1) Insert the tool in the slot located on the helmet shell between helmet brim and face shield.
- (2) Push firmly until the front plate detaches.



### Installation:

For installation of the front plate no tool is required.

- (1) Place front plate on the helmet shell
- (2) Slide pins (1) of the front plate into the slots (2) located on the helmet shell, until they snap in.



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# Helmet Control Checklist

## 14. Helmet Control Checklist

Part	Criteria	Inspection	Replacement	Checked		Comment
				ok	Not ok	
	Page	In case of an incident* and/or at least every 2 years	Required			
Face shield	4	X	If damaged			
Helmet Shell	6	X	If damaged			
Chinstrap	8	X	Recommended every 3-5 years			
Comfort Paddings	10	X	Recommended every 3-5 years			
Headband	12	X	If damaged			
Kitfix	14	X	If damaged			
Impact Liner	16	X	If damaged			
Suspension	18	X	If damaged			
Ocular visor	20	X	If damaged			
Front plate	22	X	If damaged			
Neck curtain	Visual inspection	X	If damaged			
Lamp support	Visual inspection	X	If damaged			
Components that are particularly critical to safety of the product, such as suspension, shell and impact liner, are marked with Ⓢ. Treat such parts with special attention and care during inspection and assembly.						
* for more details see Maintenance page 5						

<b>Helmet serial number:</b>	
<b>Fire station:</b>	
<b>Name of the user:</b>	
<b>Checked by:</b>	
<b>Date:</b>	

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15. Notes

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For further local MSA contacts please go to our web site [www.MSAafety.com](http://www.MSAafety.com).