



# LH 050/150/250

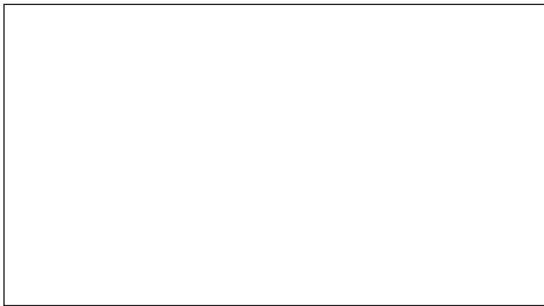
[Helicopter Flight Helmet]

English



*The information specified in this document is not contractually binding and may be modified without notice.*

REF : 074 xxx\*  
REF : 071 xxx\*  
REF : 072 xxx\*



**MSA GALLET**

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## WARNING

Thank you for your confidence in **MSA GALLET** products.

Please read the instruction manual carefully.

**Ignoring these instructions may reduce the protection which your helmet is designed to provide.**

The helmet's level of protection is only ensured if it includes all of its original components. Thus, **any modification of the product or the removal of one of the original components will cause non-conformity of the delivered material, and will relieve MSA GALLET from all liability.**

Always concerned with the improvement of its products, **MSA GALLET** reserves the right to modify them at any moment without prior notice.

## GENERAL

The **MSA GALLET** LH 050/150/250 type flight helmets are only designed for helicopter pilots and flight personnel on helicopter. It ensures maximum comfort and protection for the crew. It has one or two visors and can be used with any type of avionics currently available.

**DESCRIPTION**

**Helmet includes:**

- **A helmet :**
  - a small shell equipped with a lining including a 5 mm thick front pad, a 5 mm thick top pad, a size M neck pad, and a size M edgeroll,
  - or, a large shell equipped with a lining including a 5 mm thick front pad, a 5 mm thick top pad, a size XXL neck pad and a size L edgeroll.
- **A protective cover for the outer visor**
- **A personalization kit to customize your helmet** (see page 4):
  - a set of front pads (10 and 15 mm thick)
  - a set of top pads (10 and 15 mm thick)
  - a set of neck pads (XS and S sizes or L and XL sizes)
  - 4 earcup spacer pads (see page 5)
- **A protective helmet bag** (see page 9)
- **A carrying bag** (see page 9)

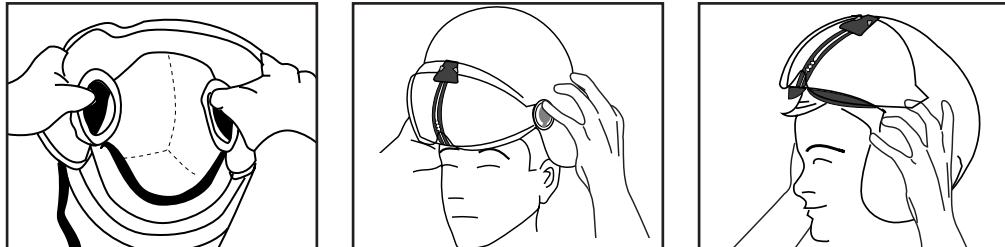
**Size correspondence chart:**

Size of helmet	Small Shell			Large Shell		
	XS	S	M	L	XL	XXL
Pad thickness	15 mm	10 mm	5 mm	15 mm	10 mm	5 mm
Head size (cm)	52-53 cm	54-55 cm	56-56,5 cm	57-58 cm	59-60 cm	61-62 cm
Head size (in)	20.47 to 20.87	21.26 to 21.65	22.05 to 22.24	22.44 to 22.83	23.23 to 23.62	24.02 to 24.41

Other sizes available on request.

**HELMET ADJUSTMENT**

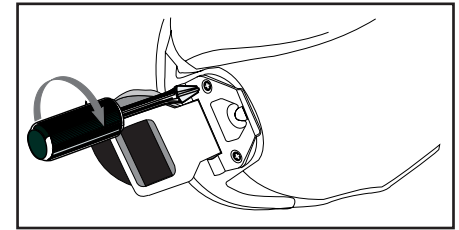
**Donning helmet:**



Helmet wearing is given by the low position of the inner visor (except for LH 150 given by outer visor)

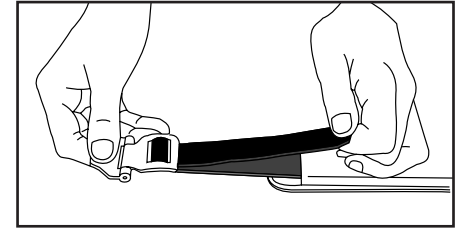
**Chinstrap permanent attachment:**

The chinstrap is attached to the helmet with 2 screws (left side).



**Adjusting chinstrap:**

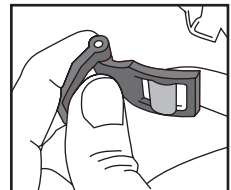
Free the leather end-piece and adjust the chinstrap according to the buckle. Reposition the end-piece.



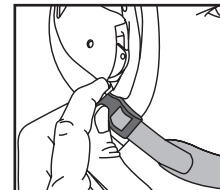
**Locking/unlocking the chinstrap:**



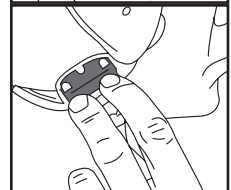
Locking mechanism is executed with the opposed hand of locking side (illustration with locking on the right-hand side by the left hand).



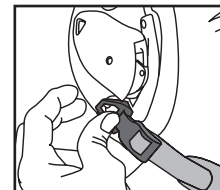
Position the thumb on the lever, the index and the major under the lever closed to the axis of the pin



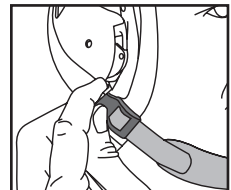
Approach the lever of the chinstrap support, the index and the major allowing to feel the hooks of the chinstrap support



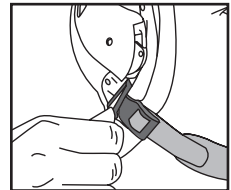
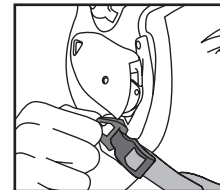
Slide the lever into the tumbler of the chinstrap support



Lock the chinstrap by pressure on the center of the lever



Unlocking by traction on the extremity of the lever.

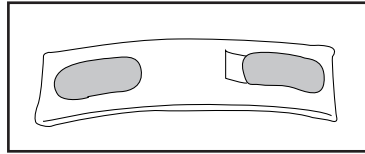


## Customizing the helmet lining:

Your LH helmet's lining can be disassembled.

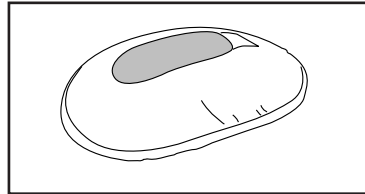
### 1 Front pad (3 thicknesses: 5, 10, 15 mm)

The front pad is attached in the front of the helmet by two Velcro strips. The visible seam is towards the top of the helmet.



### 2 Top pad (3 thicknesses: 5, 10, 15 mm)

The pad is fixed to the helmet top inner lining by a Velcro strip.

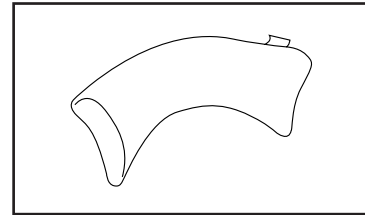


### 3 Neck pad

(6 sizes: XS, S, M, and L, XL, XXL)

The pad is attached to the shell by two Velcro strips. The tag is towards the helmet top.

Adjust the headphone connecting wire under the neck pad.

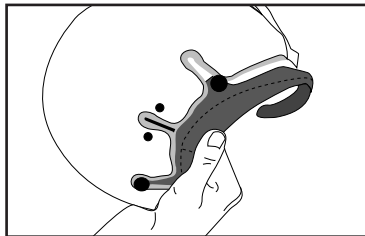


### 4 Removable edgeroll

(different pad sizes are available as spare parts)

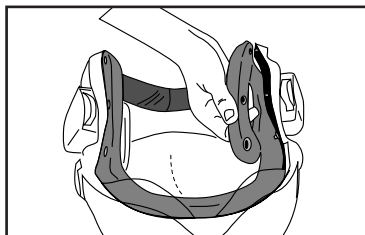
#### a - Assembly

Insert one of the lateral pins into the corresponding slot. Slide it in. Do the same with the other pin. Slide the pins in as far as possible, and then clip the three left and right snaps located at the side.



#### b - Disassembly

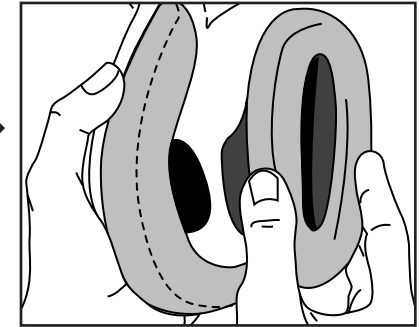
Remove the three snaps located at the right and left sides. Pull the pad backwards by sliding the two pins from their slots, beginning with one side pin.



## Assembly/Disassembly of the headphone earcups:

Use as many earcup spacer pads as necessary to get the desired pressure at the ear area, in order to increase or decrease sound attenuation.

Adjust the headphone connecting wire under the neck pad.

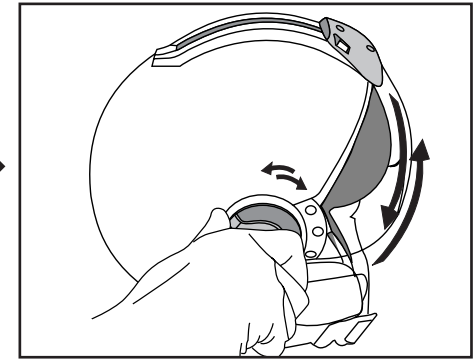


## USE

### Moving the inner visor:

(LH 050/250)

To lower or raise your visor, use the left or right button provided for this purpose.



### Assembly and disassembly of the inner visor:

(LH 050/250)

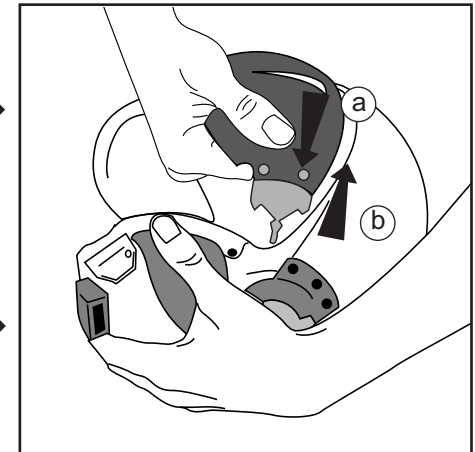
The inner visor can easily be removed.



GT corresponds to the large size helmet shell  
PT corresponds to the small size helmet shell

#### a - Assembly

Place the visor maneuver buttons in their lower position. Clip one side, then the second. Raise and lower the visor in order to check the right positioning.

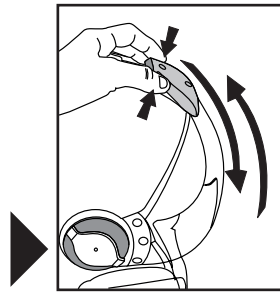


#### b - Disassembly

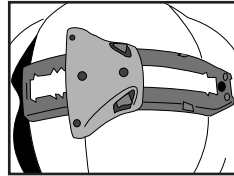
Lower the visor. Unsnap one side, and then the other, pulling hard on the side edge of the visor.

### Moving the outer visor: (LH 150/250)

Press the two buttons at the top of the visor simultaneously in order to unlock it. Six lower locking positions can be used.

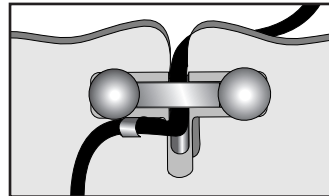


**!** MSA Gallet recommends that you fly with the outer visor in its low position (optimal mechanical protection).



### Helicopter anti-cable tear-out system

In case of removing the anti-cable tear-out system, replace it when reassembling.



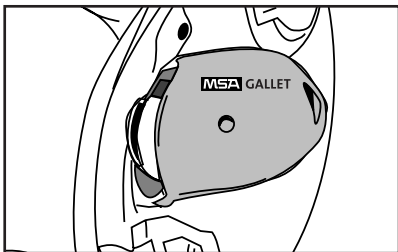
### Note:

When acquiring your helmet, make sure that the avionics corresponds with the type of aircraft with which it is to be used.



### WARNING:

### for the helmets equipped with oxygen mask receivers



The oxygen racks are safety elements. Do not disassemble the oxygen mask receivers. Send the helmet back to your supplier if any problem occur.

### Conditions for use:

This helmet was designed to efficiently protect pilots and flight personnel from:

- Impacts which may occur during flight.
- Blinding.
- Excessive noise.

Any other use is to be avoided, and relieves the responsibility of **MSA GALLET**. This product ensures optimal user protection within the limits of the specified conditions.

- Do not modify your helmet.
- Attach the chinstrap under the chin at all times.

- Replace your helmet in case of significant impact, even if there is no visible damage.

### Helmet storage:

It is recommended to:

- Place the cover on the outer visor.
- Store the helmet in its carrying bag away from dust and humidity (at an ambient temperature of 10 to 30° C, and relative humidity between 25 and 65%).
- Do not store the helmet near corrosive products.

### Care of helmet:

- **Warning:** do not apply paint, adhesives, hydrocarbons, or solvents in order to avoid deterioration of materials.
- To clean the shell and visors: use soapy water and a soft cloth only.
- To clean leather parts: use glycerin soap on a lint-free cloth, and rub. It is not necessary to rinse.

## DESCRIPTION OF HELMET ELEMENTS

- The LH helmet's **shell** is made of:
  - a one-piece shell in high performance carbon fibers, aramid, and epoxy resin. The shell covers a large head protection zone, and has good flexibility for user manipulation.
  - an expanded polystyrene inner padding for impact absorption. It is covered with a velvet lining for the user's comfort, with the possibility of attaching different size elements.

- **The outside coating** is flame retardant.

- **The inner lining** is made up of a set of four elements available in several sizes which make it possible to perfectly fit the user's head form. This set includes an edgeroll, a neck pad, a top pad, and a front pad.

The lining elements are made up of different types of foam and soft leather to ensure user's comfort. These four inner lining elements are interchangeable and attached inside the shell by Velcro strips. Adaptation to the user's head form is made by choosing each of these parts.

- The LH helmet includes **two protective visors** (depending on helmet version): an inner visor, and an outer visor which can be held in high or low position.
- **The acoustic protection system** is made up of:
  - two injection molded thermoplastic earcups, with a slot to hold headphones.
  - two soft plastic earpads for comfort, ergonomically shaped.

These earcups ensure correct acoustic protection and are fixed inside the shell by Velcro strips.

- **The chinstrap** is made up of a synthetic fire-proof fiber strap with a clipping system at each end. It can be permanently locked on the right or left side. A leather end-piece covers the strap to ensure user's comfort.

- **The outer visor cover** is fixed by two Velcros strips on the outer visor.
- Every helmet is delivered with the **protective helmet bag** in a padded polyester **carrying bag**. This bag includes:
  - a transparent gusset pocket on the inside and outside,
  - a handle and an adjustable length carrying strap,
  - two sliding closures,
  - a registration tag holder on the outer surface.

This bag can be used as a flight bag.

- **The LH helmet** can be used with any type of avionics. State the type of equipment when placing the order.

## GUARANTEE

**All of our models, accessories, and spare parts are meticulously inspected before leaving the factory.**

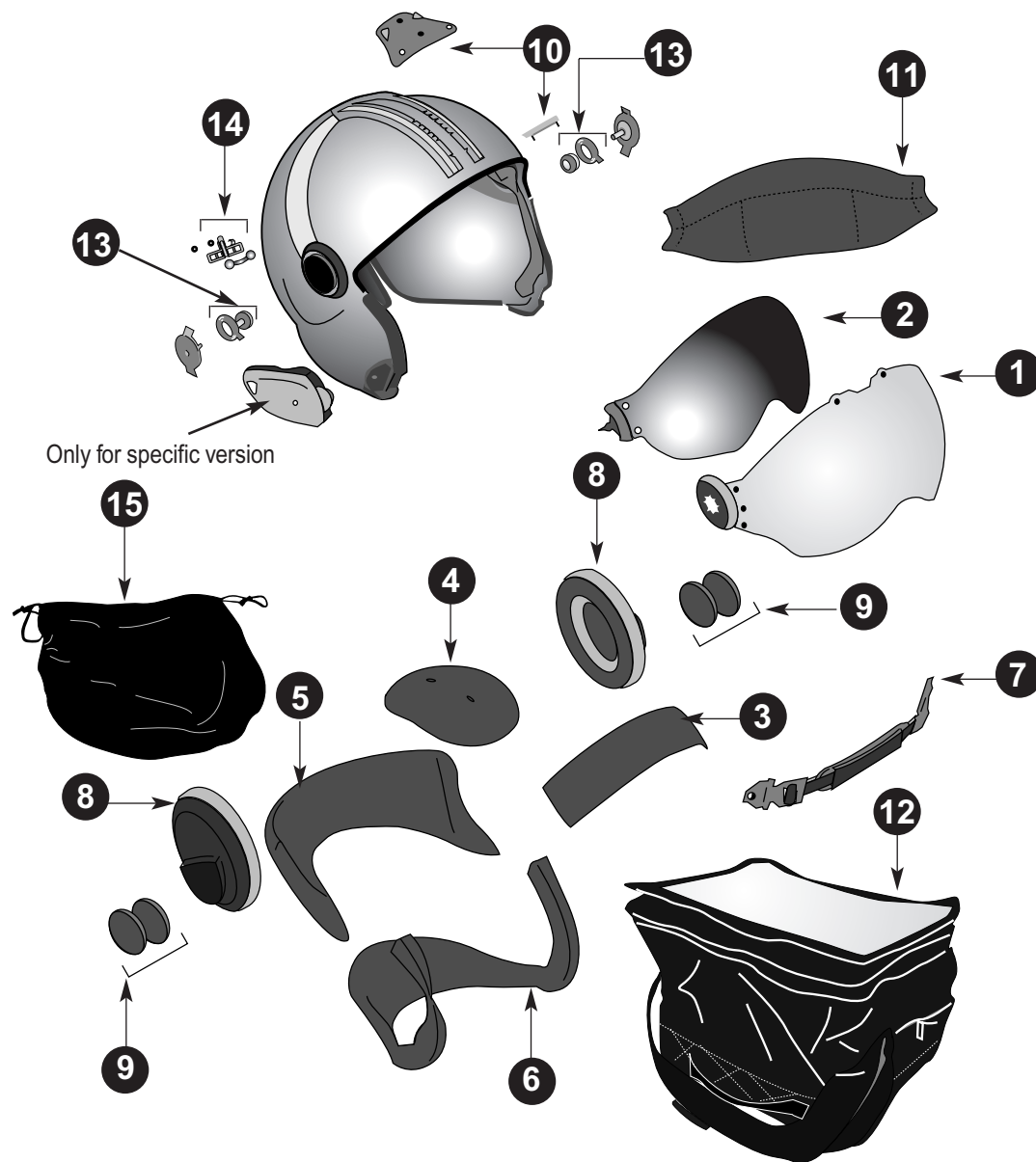
**MSA GALLET** helmets and their options are guaranteed one year, beginning from the date of purchase, parts and labor, for any mechanical failure which may occur during use in the conditions described in these instructions.

**SPARE PARTS**

	REFERENCE	DESCRIPTION
1	077003* PMxxx 077003* GMxxx	PM or GM outer visor set (color code xxx: 0 01: clear; 002:green; 003: yellow; 004: grey)
2	077005* PMxxx 077005* GMxxx	PM or GM inner visor set (color code xxx: 001: clear; 002: green; 003: yellow; 004: grey)
3	077001	Kit of 3 front pads (thickness 05, 10, 15 mm)
4	077002	Kit of 3 top pads (thickness 05, 10, 15 mm)
5	077007 077008	Neck pad kit (XS/S/M) for PM shell Neck pad kit (L, XL, XXL) for GM shell
6	077026*xx	LH Edgeroll size xx (xx = XS/S/M/L/XL/XXL)
7	077075	Chinstrap set LH
8	077044	Comfort ear pads (pair) + foam closing elements (pair)
9	077030	Earcup spacer pads (4)
10	077035	Outer visor adjustment system with locking device
11	077060	Protective cover for outer visor
12	077029	Carrying bag
13	077040	Outer visor return system
14	077041	Anti-cable tear-out system
15	014103	Protective helmet bag

PM: small size  
GM: large size

*(Please contact us for other spare parts)*



**OPTIONS**

N°	REFERENCE	DESCRIPTION
1	077059	Cleaning cloth
2	077020	LH 250 tool kit
3	077056*PM/GM	CN2H-AA night vision goggles clipped support size PM or GM
4	077057*PM/GM	ANVIS night vision goggles clipped support PM or GM
5	077053*PM/GM	CN2H-AA night vision goggles screwed support size PM or GM
6	077054*PM/GM	ANVIS night vision goggles screwed support size PM or GM
7	077061*CC PM/GM	Clipped carbon visor hard cover size PM or GM - Painted or not painted
8	077058*CC PM/GM	Screwed carbon visor hard cover size PM or GM - Painted or not painted
9	077064*PM/GM	Plastic visor hard cover size PM or GM

PM: small size

GM: large size

CC : color code on request

Additional night vision goggles (NVG) support available on request.

