

# HAMMAR®

## MA1 UL LIFEJACKET INFLATOR



## PRODUCT INFORMATION

### MA1 UL

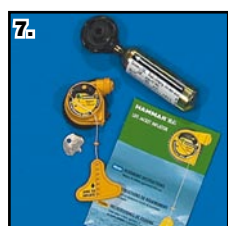
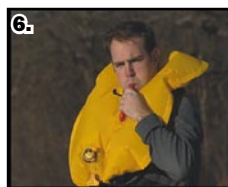
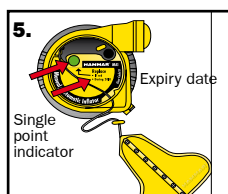
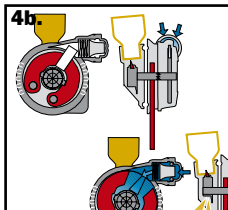
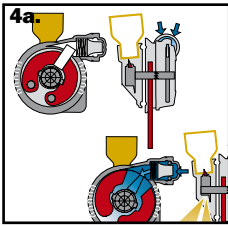
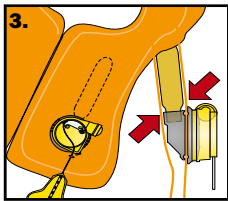
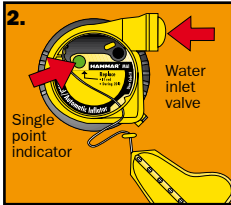
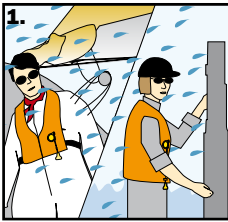
**IMPORTANT FOR  
USERS • SALES • LIFEJACKET (PFD) SERVICE**

Product Information • Recharge instruction

Why you should choose this model

# THE HAMMAR LIFEJACKET INFLATOR

## PRODUCT INFORMATION



### Some big-benefit features of the Hammar Manual/Automatic Lifejacket Inflator

- Unique hydrostatic valve that protects the water sensitive element. No activation in rain, spray, splash and humidity (1).
- Single point indicator (green) shows that the inflator is ready for use (2).
- Cylinder seal indicator (green) ensures that the cylinder has not been used (2).
- Gas cylinder located inside the life-jacket bladder. Cylinder protected against corrosion. Reduces snagging hazard (3).
- No service requirement of the Inflator Cap for 5 years.

### The Manual/Automatic version works like this

When the inflator is lowered more than about 4 inches or so in the water, then the hydrostatic valve opens and lets the water meet the water sensitive element (4a), that in turn releases a stainless steel coil spring. The spring then drives a needle into the end of the gas cylinder, which is now punctured so that the gas instantly fills the lifejacket (4b). Total buoyancy is normally reached within 4 – 5 seconds.

When wearing foul weather clothing a lifejacket has to overcome the fact that air is often trapped causing the user to both surface quickly and float on their back. This may cause slow or non-activation of the inflator, as this will place the valve uppermost, preventing it from being sufficiently submerged. An unchanged parallel position of the body to the water surface with the hydrostatic valve uppermost, has the same effect. In such cases, the manual backup (pull tab) should be used to inflate the lifejacket. Changing position in the water, or jumping or falling into the water in all other ways, will immediately activate the hydrostatic valve and the life-jacket will inflate.

### The Manual/Automatic inflator

If you want to test your lifejacket in water, you can do this without activating the inflator. Just inflate your jacket through the oral tube and then go swimming (6). The counter pressure inside the bladder will prevent the hydrostatic valve from opening! That way you will not use up your gas cylinder. After your swim, let the jacket dry off, and then deflate it. (See **repacking** below)

### Service and maintenance

- The Manual/Automatic inflator needs replacement after use or after the five years expiry date.
- Check that single point indicator is green (5).
- Check that expiry date is within the limit (5).

### Don't forget the annual service on your lifejacket!

*Please remember the periodical checking and inspection of the rest of the lifejacket. Check the instructions from the lifejacket manufacturer.*

*For further information on periodical checking and annual service, you are always welcome to visit our web-site:*

[www.cmhammar.com](http://www.cmhammar.com)

### Repacking

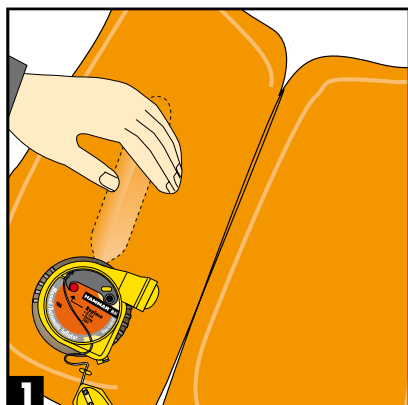
If your lifejacket (PFD) has been used and/or the Hammar Inflator replaced, always inflate the jacket through the oral tube (6) and check that it stays inflated at least overnight. Empty the lifejacket (PFD) again by pushing in the non-return valve in the top of the oral tube and press out **ALL RESIDUAL AIR** from the bladder, so that the jacket may be folded properly. Let the lifejacket dry before packing.

### Ask your dealer for replacement kits!

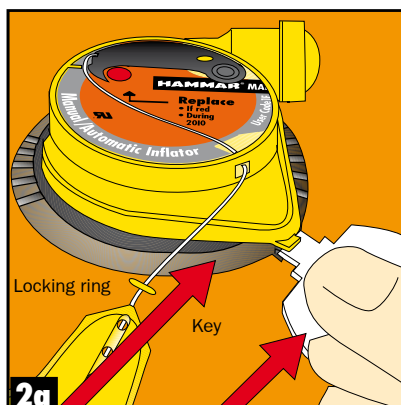
We hope that you accept this little inconvenience if and when your lifejacket has been in action to save your life (7.).

# HAMMAR LIFEJACKET INFLATOR

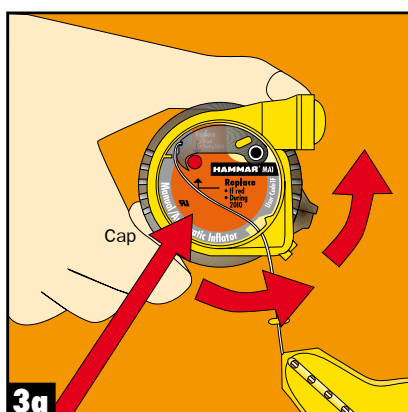
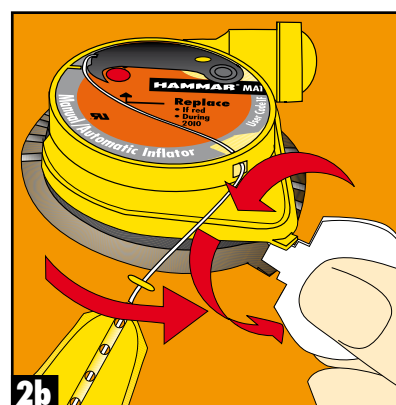
## REARMING INSTRUCTIONS



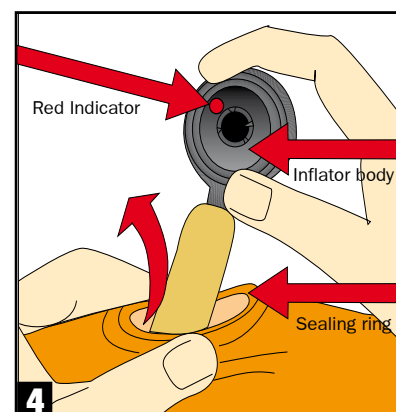
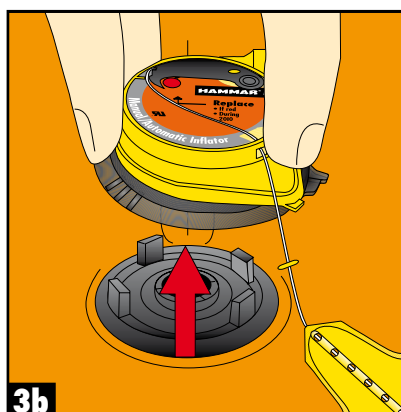
1 Place the lifejacket (PFD) on a smooth, flat surface and wipe off any water. Hold the gas cylinder through the fabric, using one hand. (PFD = Personal Floating Device)



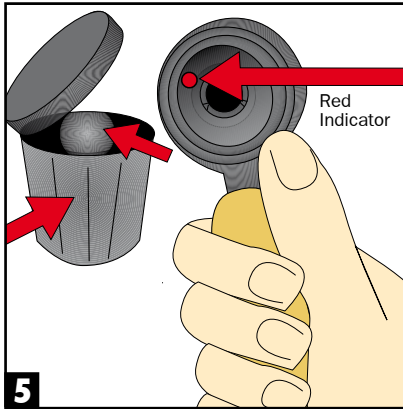
2a Insert metal key as shown in 2a and turn the key counter-clockwise (2b) between **black** locking ring and labelled yellow cap. The **black** locking ring will now turn counter-clockwise



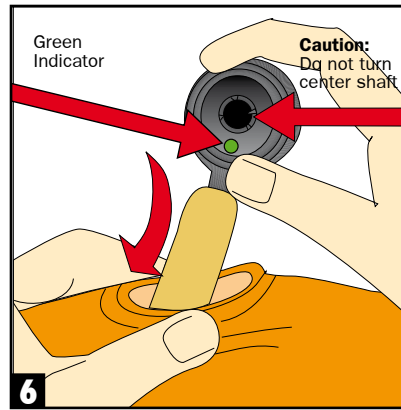
3a Now turn **black** locking ring counter-clockwise (3a) and lift off cap (3b). (cap = yellow inflator operating head) Dispose of used cap.



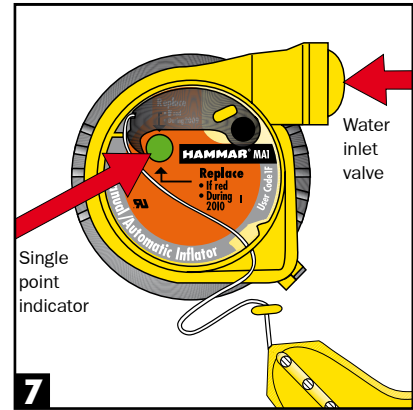
4 Squeeze sealing ring to elongate and remove the inflator body through the sealing ring.



Dispose of used inflator body in an environmentally approved manner.

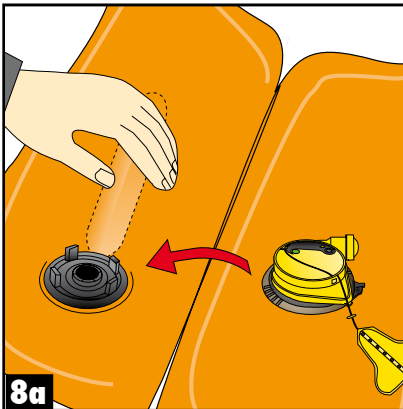


Check that the indicator is green. Insert new inflator body with gas cylinder pointing upward inside the life-jacket (PFD). Let the sealing ring rest on the adapter around the four lugs.

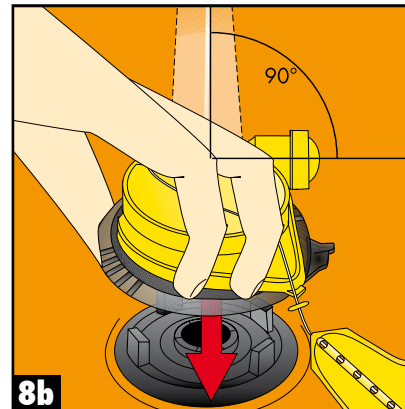


Now check the manual/automatic cap as follows:

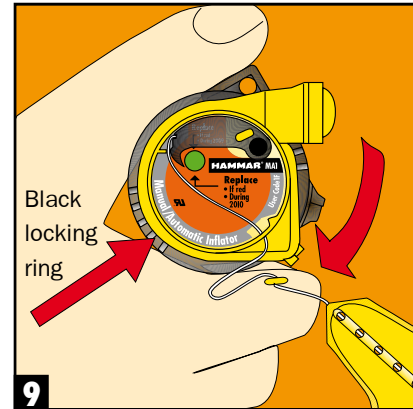
1. Single point indicator showing green?
2. Expiry date OK? If YES is the answer to both these questions, then proceed as follows. If NO get a new cap.



Hold the gas cylinder through the fabric of the life jacket (8a). Position the replacement cap with the



water inlet valve pointing to the right (8b) and press it FIRMLY onto the inflator body and sealing ring.



While pressing FIRMLY onto the inflator body turn the **BLACK** locking ring clockwise into the locked position. Pull on the cap to make sure it has locked onto the inflator body.

**CHECK** to see that the indicator on the cap is green; that the pull to inflate lanyard is present and that the locking ring is locked. When the locking ring is locked (9a), it cannot be turned counter-clockwise by hand. If your lifejacket (PFD) has been used and/or the Hammar Inflator replaced, always inflate the jacket through the oral tube and check that it stays inflated at least overnight. Empty the lifejacket (PFD) again by pushing in the non-return valve in the top of the oral tube and press out **ALL RESIDUAL AIR** from the bladder, so that the jacket may be folded properly. Let the lifejacket dry before packing

**Don't forget the annual service on your lifejacket!**

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# HAMMAR LIFEJACKET INFLATOR

# WHY YOU SHOULD CHOOSE THIS MODEL OF INFLATOR!

## 10 QUESTIONS AND ANSWERS

### 1. HOW DOES IT WORK?

The Hammar Manual/Automatic Inflator has a unique hydrostatic valve that works by the pressure difference between the inside of the bladder and the outside. When the inflator is lowered more than about app. 10 cm in water, the hydrostatic valve opens and water will have access to a water sensitive element. That in turn releases a stainless steel coil spring. The spring then drives a needle into the end of the gas cylinder, which is now punctured so that the gas instantly fills the life jacket.

### 2. WILL THE LIFEJACKET INFLATE IF THE INFLATOR GETS WET OR IN HUMIDITY?

NO – because it requires pressure on the hydrostatic valve to allow water ingress to activate. It can withstand spray, wave splash and high humidity without causing accidental inflation. Accidental inflation can cause accidents!

### 3. WILL THE GAS CYLINDER CORRODE?

NO – the cylinder is carried inside the inflatable bladder and is therefore protected from the atmosphere and corrosive effects of salt water.

### 4. HOW CAN I TELL IF THE GAS CYLINDER IS LEAKING?

Quite easy – due to the cylinder being housed inside the inflatable bladder, this will start to inflate if the cylinder leaks.

### 5. WHAT ABOUT IN EXTREME COLD CONDITIONS. WILL IT ICE-UP AND THEREBY NOT INFLATE THE LIFE JACKET BLADDER?

Extreme cold conditions will not affect the hydrostatic system. The cylinder is inside the bladder and moisture cannot get in to form ice. Furthermore the gas does not have to enter through a valve to inflate the lifejacket.

### 6. HOW LONG DOES IT TAKE TO INFLATE?

Once the inflator is activated, it will take no more than 4-5 seconds to reach full inflation. Extreme cold (-30°C) can prolong inflation by 1-2 seconds.

### 7. WHAT ABOUT SERVICING THE HYDROSTATIC INFLATOR? HOW OFTEN? HOW MUCH WILL IT COST?

The hydrostatic inflator does not require servicing, therefore the cost is 0:-. The only time it will need to be serviced is:

- If it has been used, i.e. inflated.
- 5 years from manufacture. You will find the expiry date on the top label.

To check that everything is OK:

- Is the single point indicator green?
- Is the expiry date within the limit?

If YES, the lifejacket is charged and ready for use.

The lifejacket has to be serviced according to the lifejacket manufacturers instruction.

### 8. HOW EASY IS IT TO RECHARGE THE LIFEJACKET?

Very simple. You can obtain a full re-charge kit from your dealer that carries full step-by-step instructions.

### 9. IF I WANT TO TRY IT IN THE WATER?

Easy – inflate the lifejacket through the oral tube and go swimming. The counter pressure inside the bladder prevents the hydrostatic valve from opening. Let the lifejacket dry and then deflate it in the normal way. You save the inflator and the cylinder.

### 10. HOW MUCH WILL THE LIFEJACKET INFLATOR COST?

The Hammar lifejacket Inflator needs no service and has a 5 years expiry date so it's very cost efficient. All these advantages will cost you a little more from the start, but it will actually save you money in the long run. Please contact your dealer for price information.

