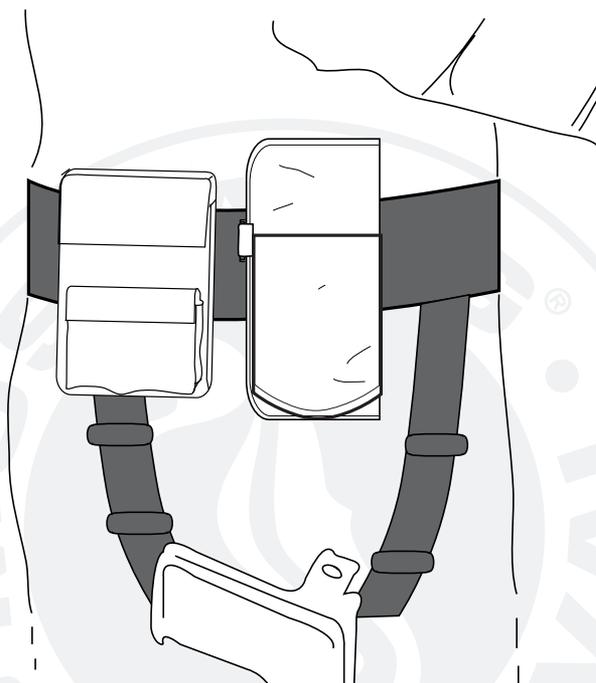


**MUSTANG SURVIVAL**



# **OWNER'S MANUAL**

## **MD1250**



**TACTICAL INFLATABLE SIDE POUCH LP**

**WE SAVE LIVES FOR A LIVING**

# DO NOT REMOVE PRIOR TO SALE

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## INTRODUCTION

This manual provides instructions and guidelines for safely using and maintaining Mustang Survival MD1250 Tactical Inflatable Side Pouch Life Preservers (LPs).

The MD1250 LP provides flotation capability with minimum bulk or interference using separate, independently operated left and right LPs.

The MD1250 LP has been designed specifically for easy integration with law enforcement (LE) belts, and body armor and tactical vests, including integrated Pouch Attachment Ladder System (PALS) webbing and Modular Lightweight Load-carrying Equipment (MOLLE) vests.

The MD1250 LP inflates automatically on submersion using a manual/automatic hydrostatic inflator that significantly reduces the potential for accidental inflation due to humidity, sea spray, or wet storage.

When the hydrostatic inflator is submerged in more than four inches in water the water inlet valve opens letting water contact the water-sensitive element. The water-sensitive element releases a stainless steel coil spring that drives a needle into the end of the CO<sub>2</sub> cylinder, puncturing it and allowing CO<sub>2</sub> to fill the inflation cell.

Each MD1250 LP can be inflated manually by pulling the beaded manual inflation handle. The LP may also be converted to manual-only operation with the included automatic/manual conversion cap.

Backup or top-up manual inflation or buoyancy reduction can be accomplished using the oral inflator tube.

In-water performance tests with the MD1250 LPs attached to a typical body armor vest demonstrate the ability of the LPs to provide effective flotation and buoyancy.

Due to variances in local configuration, full gear in-water testing is strongly recommended to validate performance.

When worn, used, and serviced according to the instructions in this manual, Mustang Survival MD1250 Tactical Inflatable Side Pouch LPs can greatly increase a user's chance of survival in the water.

# PRODUCT FAMILIARIZATION AND READINESS

The MD1250 Tactical Inflatable Side Pouch LPs are used in right/left pairs, and can be attached to an LE belt, or integrated PALS webbing and MOLLE vest. Right-hand LPs have the letter R above the attachment webbing straps (Figure 2); left-hand LPs have the letter L.

Figure 1 shows the front of a LP, locating the upper zipper (1), the elastic storage pocket (2), the automatic/manual conversion cap and lanyard (3) stowed in the elastic pocket, the manual/automatic hydrostatic inflator cap (4) and the stabilizing cap (5).

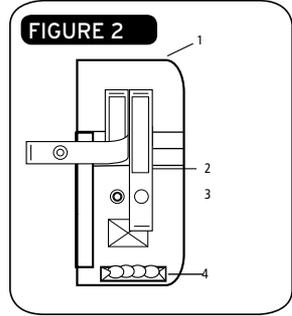
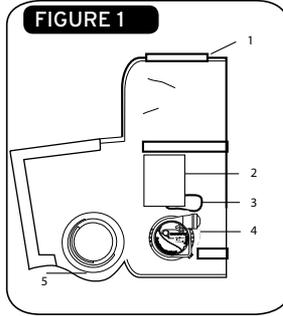


Figure 2 shows the back of a LP, locating the Velcro™ tab (1), the two attachment webbing straps (2), the locking pull-the-dot snaps (3), and the beaded manual inflation handle (4).

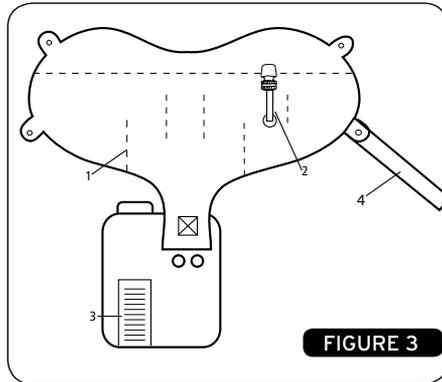
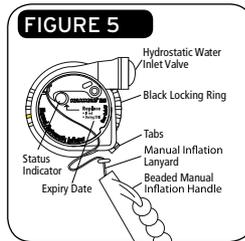
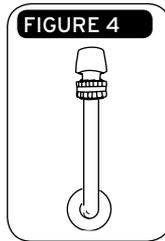


Figure 3 shows the open left-hand LP, locating the unfolded inflation cell with printed folding guidelines (1), the oral inflator tube (2), the Inspection Record tag (3), and the Velcro™ side attachment straps (4).

To become more familiar with the LP and its component parts:



1. Open the zippers completely, unfold the inflation cell, and place the LP on a clean, flat surface with the hydrostatic inflator face down (Figure 3).
2. Check and ensure the ring beneath the oral inflator tube mouthpiece is turned counterclockwise and the mouthpiece locked (Figure 4).
3. Turn the LP over and visually inspect the status indicator on the hydrostatic inflator cap (Figure 5). Green indicates that the inflator is

armed and ready for use. Red indicates that the inflator has been fired and must be replaced – see Re-arming the LP (page 6).

4. Visually inspect the expiry date on the hydrostatic inflator cap(Figure 5). If the expiry date has passed, replace the inflator cap– see Re-arming the LP (page 6).
5. Repack the LP – see Repacking the LP (page 7).

## Readiness Checklist

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**If the inflator expiry date has passed, Mustang Survival recommends water testing the MD1250 LP to become familiar with its in-water functionality.**

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When all boxes are checked, the LP is ready for use:

- Status indicator is green.
- Inflator expiry date has not passed.
- Fabric, straps, and hardware are free from defects.
- The beaded manual inflation handle is fastened fully with snaps secured
- No rips, tears, or holes, and all seams are securely sewn.
- All zippers, Velcro™ tabs, and snaps are securely fastened.

---

**NOTE: If there are any concerns about the readiness of the MD1250 LP, contact the Mustang Survival dealer.**

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## WEARING THE LP

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**NOTE: Each MD1250 LP provides 35 lbs of flotation (70 lbs paired).**

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To avoid injury to the user or damage to the LP, the LP should never be worn under clothing or anything else that might restrict inflation.

To be fully effective, attach the LP to an LE belt or integrated PALS and MOLLE vest, ensuring that all belts, straps, and attachments are adjusted for a secure, comfortable fit. Improper attachment impedes LP effectiveness.

The LPs are designed to be worn on a specific side of the body. Ensure the LP marked ``L`` is worn on the left, and the LP marked ``R`` is worn on the right.

### Using an LE Belt

The LP can be attached to an LE belt of up to three inches in width using the attachment webbing straps on the back of the LP.

1. Release the attachment webbing straps on the back of the LP by pulling up on each strap just below the indicated dot of the pull-the-dot snap.
2. Feed the attachment webbing straps on the back of the LP around the LE belt.
3. Reattach the pull-the-dot snaps by pushing down on the top edge of the snap opposite the dot.

## Using Integrated PALS Webbing and a MOLLE Vest

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**WARNING: Suitable anchor points must be used for secure attachment.**

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The LP can be attached to integrated PALS webbing and a MOLLE vest using the attachment webbing straps on the back of the LP.

1. Lay the MOLLE vest down on a clean, flat surface with the front of the vest facing up.
2. Release the attachment webbing straps on the back of the LP by pulling up on each strap just below the indicated dot of the pull-the-dot snap.
3. Feed the attachment webbing straps on the back of the LP through the PALS webbing.
4. Reattach the pull-the-dot snaps by pushing down on the top edge of the snap opposite the dot.

---

**WARNING: The use of All-purpose Lightweight Individual Carrying Equipment (ALICE) clips and Modified ALICE (MALICE) strips for secondary attachment may damage the inflation cell through the outer casing. If a secondary means of attachment is required, a ziptie may be used, positioned to the right of both attachment webbing straps.**

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## INFLATING THE LP

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**WARNING: When using the MD1250 LP in temperatures below freezing, fully discharging the CO<sub>2</sub> cylinder may not provide adequate inflation. To compensate, use the oral inflator tube to top-up the LP.**

---

**NOTE: After inflating both MD1250 LPs, secure them to each other with the Velcro™ attachment straps on the forward edge of each inflation cell.**

---

## Manual Inflation

To manually activate the hydrostatic inflator, jerk firmly downward on the beaded manual inflation handle, ensuring the snaps disconnect and the lanyard extends fully. The LP should inflate within five seconds.

## Auto-Inflation

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**CAUTION: If the MD1250 LP has been manually inflated, CO<sub>2</sub> inflation could over-pressurize and damage it.**

---

When the uninflated LP is submerged in water, the hydrostatic inflator releases CO<sub>2</sub> into the inflation cell, inflating the LP.

## Special Considerations

Auto-inflation of the LP may create a risk of damage under the following circumstances:

- Double inflation—CO<sub>2</sub> cylinder inflation after full oral inflation.
- Inflation while stored in a tight space.

- Inflation while in an awkward place or position.

## Oral Inflation

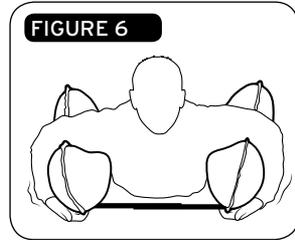
Although a properly armed LP will correctly inflate manually or automatically, the inflation CO<sub>2</sub> escapes slowly through the fabric and a slight reduction in pressure is apparent several hours after inflation. Therefore, oral top-up inflation may be required during prolonged immersion (or in a non-emergency situation). To orally inflate the LP:

1. If necessary, open the zippers completely, and unfold the inflation cell.
2. Locate the oral inflator tube, and turn the locking ring clockwise to open the inflator valve and unlock the mouthpiece.
3. Press (and hold) the mouthpiece down, and blow into the tube until the LP is fully inflated.
4. Release the mouthpiece, and turn the locking ring counterclockwise to close the inflator valve and lock the mouthpiece in place.

## DONNING THE INFLATED LP

Once the LPs have been inflated through manual, automatic, or oral inflation, tuck the inflated cells underneath each arm (Figure 6).

Attach the left and right cells together using the Velcro® straps located at the front of each lobe.



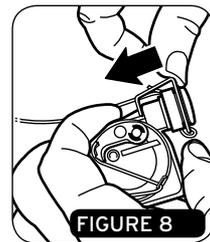
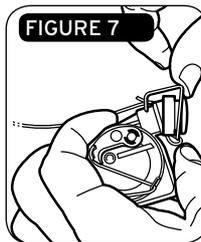
## CONVERTING THE LP

**NOTE: A fully armed MD1250 LP with an MA7219 auto/manual conversion cap is required for this procedure.**

Any time complete manual control of inflation is required, the LP can be converted from manual/automatic inflation to manual-only inflation by attaching the automatic/manual conversion cap.

The conversion can be reversed by removing the conversion cap.

1. 1. Open the Velcro® cover over the hydrostatic inflator.
2. 2. Remove the conversion cap from the elastic storage pocket.
3. 3. Position the conversion cap over the hydrostatic water inlet valve (Figure 7).
4. 4. Secure the conversion cap to the water inlet valve by applying pressure to the conversion cap at the metal clip until it locks in place (Figure 8).



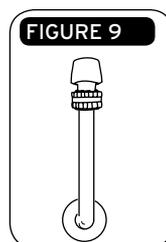
## Reversing the Conversion

To reverse the conversion:

1. Remove the conversion cap by pulling firmly on the lanyard.
2. Store the conversion cap in the elastic storage pocket.

## DEFLATING THE LP

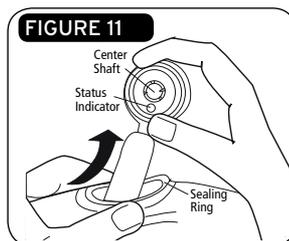
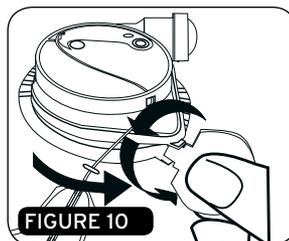
1. Locate the oral inflator tube, and turn the locking ring clockwise to open the inflator valve and unlock the mouthpiece (Figure 9).
2. Press (and hold) the mouthpiece down.
3. Gently squeeze the inflation cell until fully deflated, ensuring all air or CO<sub>2</sub> is removed.
4. Release the mouthpiece, and turn the locking ring counterclockwise to close the inflator valve and lock the mouthpiece in place.
5. Complete repacking of the LP - see Repacking the LP (page 7).



## RE-ARMING THE LP

**CAUTION: The MD 1250 LP must be deflated before being re-armed.**

1. Open the zippers completely, wipe off any water, and place the LP on a smooth, flat surface with the hydrostatic inflator facing the user.
2. Hold the CO<sub>2</sub> cylinder through the fabric and insert the metal key between the black locking ring and the inflator cap.
3. Twist the key counter-clockwise to turn the black locking ring counter-clockwise to unlock it (Figure 10).
4. Remove and discard the yellow inflator cap.
5. Elongate the inflation cell sealing ring by carefully squeezing it.
6. Remove and discard the inflator body (Figure 11).
7. Visually inspect the sealing ring for cracks, debris, or other damage. If damage is present, remove the LP from service for further inspection and assessment.
8. Ensure that the status indicator on the replacement inflator body is green. If the status indicator is red, acquire a new inflator body.

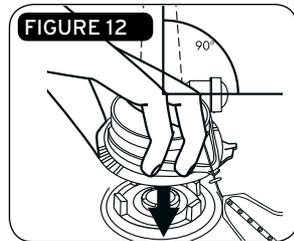


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**CAUTION: Do not turn the small center shaft of the inflator body.**

---

9. Ensure that the status indicator on the replacement inflator cap is green, the lanyard for the beaded manual inflation handle is attached, and that the expiry date has not passed. If not acquire a new inflator cap.
10. Insert the replacement inflator body inside the LP with the CO<sub>2</sub> cylinder pointing upward, and align the sealing ring in the groove, around the four lugs.
11. Hold the CO<sub>2</sub> cylinder through the fabric of the LP and position the replacement inflator cap with the hydrostatic water inlet valve pointing to the right ensuring that the inflator cap is properly seated on the inflator body and sealing ring (Figure 12).
12. While pressing firmly onto the inflator body, turn the black locking ring clockwise to the locked position, and pull on the inflator cap to ensure it is locked onto the inflator body.
13. To test for leakage, inflate the LP using the oral inflator tube - see Inflating the LP (page 4). To avoid damage to the LP do not exceed 2 psi. After two hours there should be no noticeable drop in pressure in the LP (page 4).



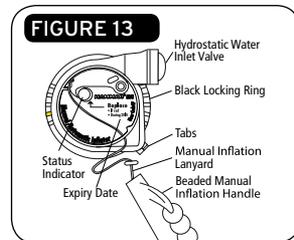
## REPACKING THE LP

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**NOTE: After each field-use inflation, the MD1250 LPs must be rearmed, leak tested, and fully deflated before repacking.**

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1. Visually inspect the status indicator on the hydrostatic inflator cap (Figure 13). Green indicates that the inflator is armed and ready for use. Red indicates that the inflator has been fired and must be replaced - see Re-arming the LP (page 6).
2. Visually inspect the expiry date on the hydrostatic inflator cap (Figure 13). If the expiry date has passed, replace the inflator cap - see Re-arming the LP (page 6).



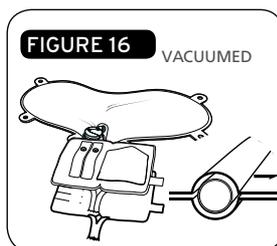
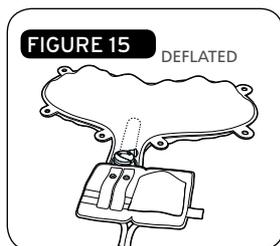
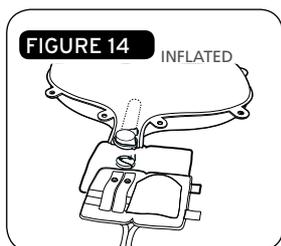
## Gas Removal from the Inflation Cell

**WARNING: All gas must be evacuated from the inflation cell prior to packing the LP. Failure to follow this procedure will significantly degrade the performance of the automatic inflation system.**

1. A vacuum source capable of achieving at least 5 in-Hg and a vacuum fitting suitable to connect the vacuum source to the oral inflator is required to complete this procedure.

**NOTE: A 3 HP shop vacuum will provide more than 5 in-Hg of vacuum.**

2. Place the LP on a flat surface with the hydrostatic inflator facing upwards.
3. Attach the automatic/manual conversion cap (MA7219) to the hydrostatic inflator.
4. Turn the LP upside down so that the hydrostatic inflator is facing downwards.
5. Locate the oral inflation tube and turn the locking ring clockwise to open the inflator valve and unlock the mouthpiece.
6. Attach a vacuum fitting to the oral inflator.
7. Turn on the vacuum source.
8. Pinch the black flange at the base of the oral inflation tube. This will help prevent the bladder fabric from sealing off the vacuum.
9. Depress the mouthpiece to evacuate the entrapped gas from the inflation cell.
10. Ensure the bladder fabric is wrapped tightly around the CO<sub>2</sub> cylinder and the hydrostatic inflator (Figures 14–16).



11. Remove the vacuum fitting from the oral inflation tube.
12. Detach the automatic/manual conversion cap (MA7219) from the hydrostatic inflator. The pressure within the bladder should increase as some gas enters through the water inlet valve. If the volume of gas contained within the bladder does not noticeably increase, repeat steps 1-12.
13. On the oral inflator tube, turn the locking ring counterclockwise to

close the inflator valve and lock the mouthpiece in position.

## Folding the Inflation Cell

1. Place the LP on a clean, flat surface with the hydrostatic inflator face down, and fold the inflation cell along each folding line in sequence, numbers 1–11 (Figure 17).
2. Carefully but firmly wrap the outer casing of the LP around the folded inflation cell, fitting the inflator cap through the opening in the front of the casing. Secure the Velcro® tab and reset and close the zippers.

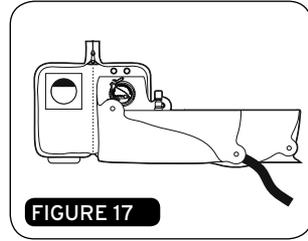


FIGURE 17

## Resetting and Closing the Zippers

**NOTE:** Mustang Survival uses advanced SecureZip™ 2-step zippers.

**CAUTION:** When performing this procedure, ensure the inflation cell does not get caught in either zipper.

To reset and close the zippers:

1. Reset the zippers by pulling each zipper back to the Velcro® tab on top of the LP (Figure 18).
2. Close the zippers by pulling each zipper pull to the zipper tape ends at the top and bottom of the LP (Figure 19), and fasten the tab to keep the zippers closed.
3. Feed the zipper tape ends into the openings on the LP, ensuring zipper ends fully cover the bladder visible in the openings.

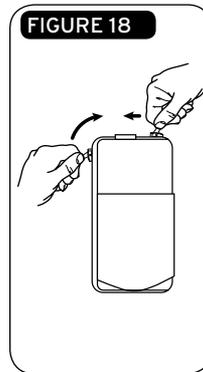


FIGURE 18

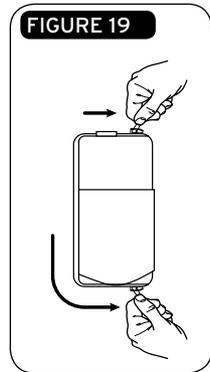


FIGURE 19

## Final Packing

1. Ensure the opening in the outer cover fabric is secured around the hydrostatic inflator cap. The water inlet valve should be easily accessible.
2. Secure the cover flap by aligning the stabilizing cap with the contours of the inflator cap (Figure 20). Keeping the stabilizing cap stationary over the inflator, with firm pressure, pull the flap tight and engage the Velcro®.
3. Secure the beaded handle to the LP cover using the snaps at the base of the unit.

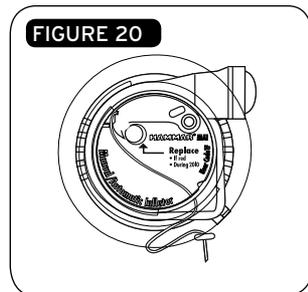


FIGURE 20

# MAINTAINING THE LP

Before each use, review the Readiness Checklist – see Product Familiarization and Readiness (page 2).

**NOTE: After each inflation, re-arm the MD1250 LP as soon as possible.**

After each use, deflate, re-arm, and repack the LP – see:

- Deflating the LP (page 6)
- Re-arming the LP (page 6)
- Repacking the LP (page 7)

## Before Each Use

- Visually inspect the status indicator on the hydrostatic inflator. Green indicates that the inflator is armed and ready for use. Red indicates that the inflator has been fired and must be replaced - see Re-arming the LP (page 6).
- Ensure the beaded manual inflation handle is fastened with snaps fully secured.
- Visually inspect the LP for damage or excessive abrasion, wear, tear or contamination. If any item shows signs of damage, perform the inspections listed in the "Every Six (6) Months" inspection details.

## Every Six (6) Months

In addition to the inspections specified for before each use, perform the following at least every 6 months, or more often if exposed to potential damage or used in extreme conditions.

- **Leak Test:** The LP should be tested for leakage by inflating with air through the oral tube until firm, and leaving it to stand for at least 2 hours in a temperature controlled environment. A leaking LP will not hold its firmness and should be replaced. If the LP leaks, contact a Mustang Survival dealer for evaluation or servicing.
- **Oral Inflator Valve Test:** The LP should be tested for leakage by inflating with air through the oral tube until firm. Hold the oral tube valve under water, if bubbles form, deflate the LP and retest. If the leak persists, take the LP to a Mustang Survival dealer for evaluation or servicing.
- Record all inspections in permanent ink on the Inspection Record tag inside the LP (Figure 21).
- After each test or inspection, repack the LP - see Repacking the LP (page 7).

**FIGURE 21**

MUSTANG SURVIVAL  
 MODEL: MD1250  
 COMPACT TACTICAL  
 LIFE PRESERVER

CANADIAN or US COAST  
 GUARD APPROVAL DOES  
 NOT APPLY TO THE MD1250  
 LIFE PRESERVER.

Inflate your PFD and try it out  
 in the water to make sure it  
 floats you comfortably and  
 adequately.

SERIAL NO. \_\_\_\_\_  
 LOT NO.        XXXXXX  
 DOM.         XXXXXXX  
 INSPECTION RECORD

DATE	UNIT	INSP.

MADE IN CANADA      LN4092

## Annually

In addition to the inspections specified for every six months, perform the following annually, or whenever the integrity of the LP is in doubt.

- Visually inspect all components for dirt or corrosion, and clean or replace as necessary.
- Visually inspect the LP for damage or excessive abrasion, wear, fabric tears, or contamination. Particular attention must be paid to the stitching, straps, hardware and inflation cell.
- Visually inspect the expiry date on the hydrostatic inflator. If the expiry date has passed, replace the inflator - see Re-arming the LP (page6).

## TESTING INFLATION AND FLOTATION

---

**CAUTION: If in doubt about self inspection and servicing of the MD1250 LP in accordance with these instructions, or of any test or inspection results, contact a Mustang Survival dealer for professional servicing.**

---

Inflate the LP and test it in water to make sure it works and how it floats the user.

### Testing via the Manual Inflation

---

**NOTE: A left/right pair of fully armed MD1250 LPs and two MA7214-10 re-arm kits are required for this test.**

---

1. With the packed LPs attached to the left and right sides - see Wearing the LP (page 3). Manually inflate the pair by jerking firmly downward on the beaded manual inflation handle. Each LP should fully inflate within five seconds.
2. Enter water of an appropriate depth to keep the head above the surface.
3. Don the inflated LP - see Donning the inflated LP (page 5).
4. Ensure the LPs float the user slightly back of vertical in a relaxed position with the mouth well above the surface of the water, and experiment with different leg positions to become familiar with changes in buoyancy and/or flotation characteristics.
5. Exit the water, remove the LPs, and completely deflate them – see Deflating the LP (page 6).
6. Let the LPs dry thoroughly, then re-arm and repack them – see Re-arming the LP (page 6) and Repacking the LP (page7).

### Testing via Automatic Inflation

---

**NOTE: A left/right pair of fully armed MD1250 LPs and two MA7214-10 re-arm kits are required for this test.**

---

1. Attach the LPs to the left and right sides - see Wearing the LP (page 3).
2. Enter water of an appropriate depth to keep the head above the surface.
3. When submerged in water, the hydrostatic manual/automatic inflator releases CO2 into the inflation cell, inflating the LP.
4. Don the inflated LP - see Donning the Inflated LP (page 5).
5. Ensure the LPs float the user just slightly back of vertical in a relaxed position with the mouth well above the surface of the water, and experiment with different leg positions to become familiar with changes in buoyancy and/or flotation characteristics (page 6).
6. Exit the water, remove the LPs, and completely deflate them – see Deflating the LP (page 6).
7. Let the LPs dry thoroughly, then re-arm and repack them – see Re-arming the LP (page 6) and Repacking the LP (page 7).

## CLEANING AND STORING THE LP

---

**CAUTION: To avoid accidental auto-inflation when cleaning the MD1250 LP, do not submerge it in water and do not spray liquid on the inflator.**

---

**NOTE: Do not dry clean the MD1250 LP.**

---

1. Hand wash or sponge down the LP in warm, fresh water with mild soap.
2. Rinse the LP and inflator with clean fresh water, using a clean cloth.
3. Hang the LP to dry on a plastic coat hanger.
4. Store the LP in a warm, dry place out of direct sunlight.

## ACCESSORIES

MA7214-10	Re-Arm Kit: 33 gram CO2 replacement cylinder and inflator cap (two kits required for each pair of MD1250 LPs)
MA7219	Auto/Manual Conversion Cap

## GLOSSARY

Term	Definition
ALICE	All-purpose Lightweight Individual Carrying Equipment
LP	Life preserver
MALICE	Modified ALICE
MOLLE	Modular Lightweight Load-carrying Equipment
PALS	Pouch Attachment Ladder System
psi	Pounds per square inch

**DO NOT REMOVE  
PRIOR TO SALE**



## research & Design

For 40 years Mustang Survival has been committed to providing life support solutions. Through constant innovation and the application of new technologies, Mustang is the leading supplier of quality flotation and hypothermia protection products to the most demanding users - from fishermen, sailors and power boaters to the Coast Guard, jet fighter pilots and even NASA astronauts.

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