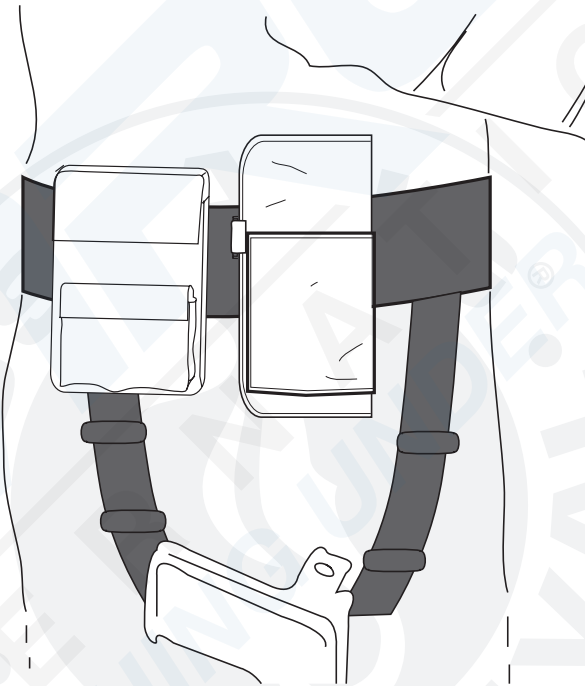


MUSTANG SURVIVAL



OWNER'S MANUAL

MD1250



TACTICAL INFLATABLE SIDE POUCH LP

WE SAVE LIVES FOR A LIVING

DO NOT REMOVE PRIOR TO SALE

Warning: This document is for the use of licensed users only.

No part of this document may be reproduced, transmitted, or transcribed in any form or by any means without the express permission of Mustang Survival Corp.

While every effort possible has been made to ensure technical accuracy, information within this document is subject to change without notice.

CONTENTS

Introduction.....	1
Product Familiarization and Readiness	2
Readiness Checklist.....	3
Wearing the LP.....	3
Using an LE Belt.....	3
Using Integrated PALS Webbing and a MOLLE Vest.....	3
Inflating the LP.....	4
Manual Inflation.....	4
Auto-Inflation.....	4
Oral Inflation	4
Donning the Inflated LP.....	5
Converting the LP	5
Reversing the Conversion.....	5
Deflating the LP	5
Re-arming the LP.....	6
Repacking the LP.....	7
Gas Removal from the Inflation Cell.....	7
Folding the Inflation Cell.....	8
Resetting and Closing the Zippers.....	8
Final Packing	9
Maintaining the LP	9
Prior to Use	9
General Tests and Inspections.....	9
Testing for Leaks.....	10
Testing the Oral Inflation Valve.....	10
Testing the Manual Inflator	10
Testing the Automatic Inflator	11
Cleaning and Storing the LP	11
Accessories.....	12
Glossary.....	12

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 CO₂ cylinder, puncturing it and allowing CO₂ 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 on the attachment webbing straps (Figure 2); left-hand LPs have the letter L.

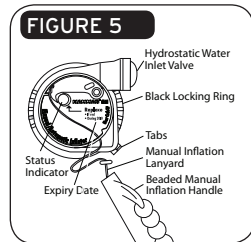
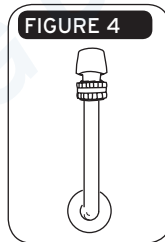
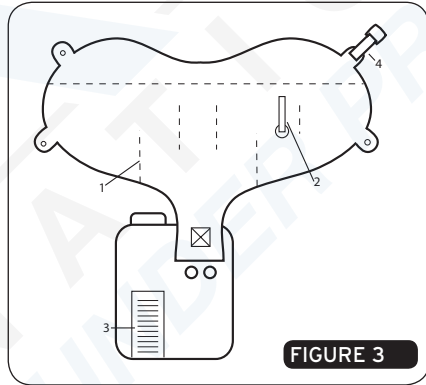
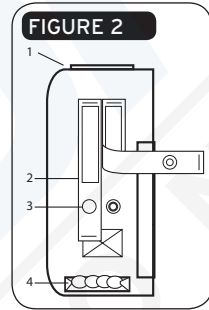
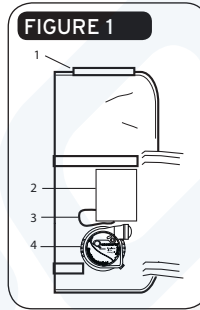
Figure 1 shows the front of a right-hand LP, locating the upper zipper (1), the elastic storage pocket (2), the automatic/manual conversion cap and lanyard (3) stowed in the elastic pocket, and the manual/automatic hydrostatic inflator (4).

Figure 2 shows the back of a right-hand LP, 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 LP, the unfolded inflation cell with printed folding guidelines (1), the oral inflation 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 (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.
4. Visually inspect the expiry date on the hydrostatic inflator (Figure 5). If the expiry date has passed, replace the inflator – see Re-arming the LP.
5. Repack the LP – see Repacking the LP.



Readiness Checklist

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

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.
- No rips, tears, or holes, and all seams are securely sewn.
- All zippers, Velcro® tabs, and buckles are securely fastened.

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

WEARING THE LP

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

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 bottom edge 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

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

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 bottom edge 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.

INFLATING THE LP

WARNING: When using the MD1250 LP in temperatures below freezing, fully discharging the CO₂ 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. The LP should inflate within five seconds.

Auto-Inflation

CAUTION: If the MD1250 LP has been orally inflated, CO₂ inflation could over-pressurize and damage it.

When the uninflated LP is submerged in water, the hydrostatic inflator releases CO₂ 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—CO₂ 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 CO₂ 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 inflation 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.

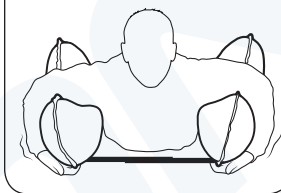
4. Release the mouthpiece, and turn the locking ring counterclockwise to close the inflator valve and lock the mouthpiece in place.

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.

FIGURE 6



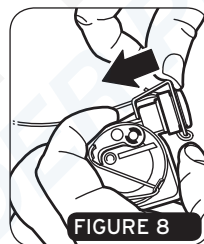
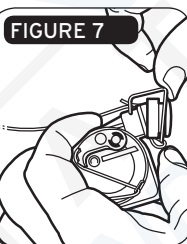
CONVERTING THE LP

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. Open the Velcro® cover over the hydrostatic inflator.
2. Remove the conversion cap from the elastic storage pocket.
3. Position the conversion cap over the hydrostatic water inlet valve (Figure 7).
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

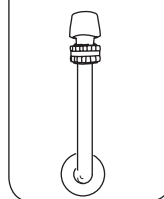
To reverse the conversion:

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 inflation 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 CO₂ is removed.

FIGURE 9

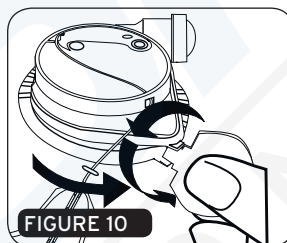


4. Release the mouthpiece, and turn the locking ring counterclockwise to close the inflator valve and lock the mouthpiece in place.
5. Complete repacking of the LP – see Repacking the LP.

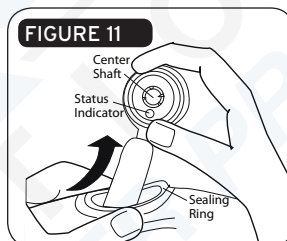
RE-ARMING THE LP

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 CO₂ 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).



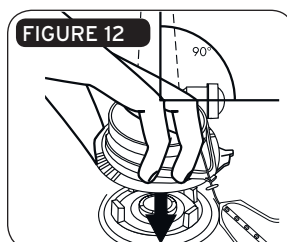
4. Remove and discard the yellow inflator cap.
5. Elongate the inflation cell sealing ring by carefully squeezing it.
6. Remove and discard the inflator body (Figure 11).
7. Visually inspect the sealing ring for cracks, debris, or other damage. If damage is present, remove the LP from service for further inspection and assessment.



8. Ensure that the status indicator on the replacement inflator body is green, and the expiry date has not passed. If the status indicator is red, acquire a new inflator body.

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

9. Insert the replacement inflator body inside the LP with the CO₂ cylinder pointing upward, and let the sealing ring rest on the adapter around the four lugs.
10. Hold the CO₂ 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).



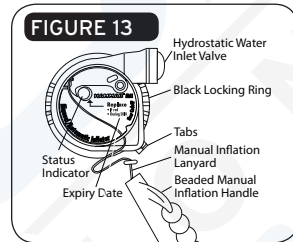
11. While pressing firmly onto the inflator body, turn the black locking ring clockwise to the locked position, and pull on the inflator cap to ensure it is locked onto the inflator body.

12. Ensure that the status indicator on the replacement inflator cap is green, the lanyard for the beaded manual inflation handle is present, and the locking ring is locked.
13. To test for leakage, inflate the LP using the oral inflator tube – see Inflating the LP. 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.

REPACKING THE LP

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

1. Visually inspect the status indicator on the hydrostatic inflator (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.
2. Visually inspect the expiry date on the hydrostatic inflator (Figure 13). If the expiry date has passed, replace the inflator – see Re-arming the LP.



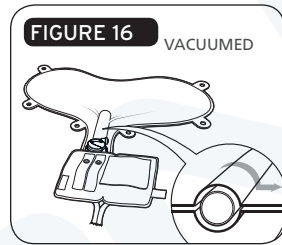
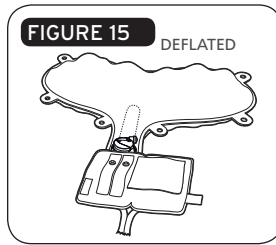
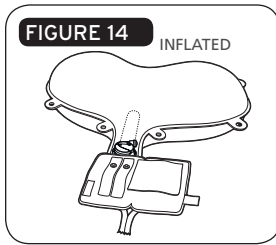
Gas Removal from the Inflation Cell

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.

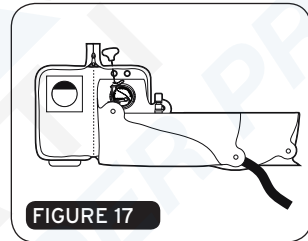
2. Place the LP on a flat surface with the hydrostatic inflator facing upwards.
3. Attach the automatic/manual conversion cap (MA7219) to the hydrostatic inflator.
4. Turn the LP upside down so that the hydrostatic inflator is facing downwards.
5. Locate the oral inflation tube and turn the locking ring 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 CO₂ 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, secure with Velcro® tab and reset and close the zippers.



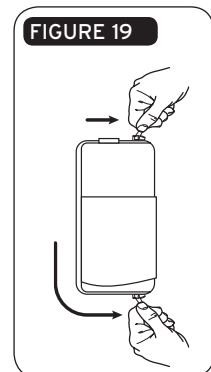
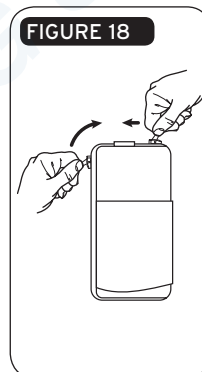
Resetting and Closing the Zippers

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

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 pull back to the Velcro® tab on the 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 small openings on the LP.



Final Packing

1. Ensure the opening in the cover fabric is secured around the hydrostatic inflator. The water inlet valve should be easily accessible.
2. Secure the beaded handle to the LP cover using the snaps at the base of the unit.

MAINTAINING THE LP

Before each use, review the Readiness Checklist – see Product Familiarization and Readiness.

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
- Re-arming the LP
- Repacking the LP

Prior to Use

Visually inspect the LP between outings:

- Ensure the LP is properly armed.
- Ensure the LP is free of rips, tears, or holes.
- Ensure all seams on the LP are securely sewn.
- Ensure the fabric, straps, and hardware on the LP are free from any defects.

CAUTION: To avoid accidental inflation, do not allow the manual/automatic hydrostatic inflator to submerge in water.

General Tests and Inspections

Record all inspections in permanent ink on the Inspection Record tag inside the LP (Figure 20).

After each test or inspection, repack the LP – see Repacking the LP.

Perform the following inspections annually, after each inflation, 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, and hardware.
- 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.

- Visually inspect the expiry date on the hydrostatic inflator. If the expiry date has passed, replace the inflator – see Re-arming the LP.

Testing for Leaks

Perform this test every 180 days, or more frequently if the LP is exposed to extreme conditions.

1. Orally inflate the LP until it is firm to the touch, and let it stand for two hours – see Inflating the LP. A leaking LP will not maintain its firmness.
2. If the LP is leaking, take it to a Mustang Survival dealer for evaluation or servicing.
3. Repack the LP – see Repacking the LP.

Testing the Oral Inflation Valve

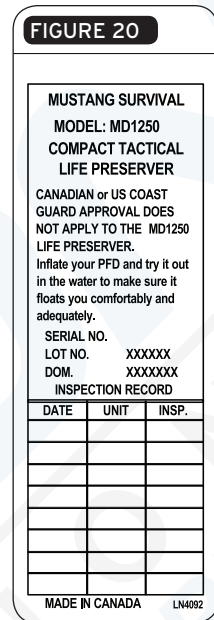
Perform this test every 180 days, or more frequently if the LP is exposed to extreme conditions.

1. Fully inflate the LP using the oral inflation tube, then hold the valve under water.
2. If bubbles appear, deflate the LP and retest. If the leak persists, take the LP to a Mustang Survival dealer for evaluation or servicing.
3. Repack the LP – see Repacking the LP.

Testing the Manual Inflator

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), 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 LP).
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.
6. Let the LPs dry thoroughly, then re-arm and repack them – see Re-arming the LP, and Repacking the LP.



Testing the Automatic Inflator

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).
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 LP).
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.
6. Exit the water, remove the LPs, and completely deflate them – see Deflating the LP.
7. Let the LPs dry thoroughly, then re-arm and repack them – see Re-arming the LP, and Repacking the LP.

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, take the LP to a Mustang Survival dealer for professional servicing.

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, soapy fresh water.
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
LP	Life preserver
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, fighter pilots and even NASA astronauts.

www.mustangsurvival.com

E-MAIL
custserv@mustangsurvival.com

TOLL FREE
1.800.526.0532

Mustang Survival and seahorse design is a registered trademark of Mustang Survival Corp.

Our commitment to quality has earned our Burnaby facilities ISO 9001 registration, the highest of all international standards. This is our guarantee you are receiving the ultimate in design and manufacturing.

HT-1250 (Rev. 08Aug2012)

mustangsurvival.com