



FOR MODEL NUMBER MSD624 03

OWNERS MANUAL

SENTINEL™ SERIES/ WATER RESCUE DRY SUIT

MOBILITY BASED SIZING™

In order to take your measurements correctly and select the appropriate size, please follow the instructions provided on our website at:

www.mustangsurvival.com/mobility

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DESCRIPTION

MSD624 03 - SENTINEL™ SERIES WATER RESCUE DRY SUIT

The Sentinel Series Water Rescue Dry Suit is waterproof & breathable constant wear dry suit ideal for professional users engaged in Swift Water Rescue and Search and Rescue (SAR) operations.

Optimizing fit, comfort and functionality are extremely important, especially when a poorly fitted suit can impede on a mission's efficiency and your safety. Validated by NAVAIR and the SAR Model Manager Office, Naval Special Warfare, and swift water and ice rescue instructors and trainers, our Sentinel™ Series is designed to be compatible with all types of equipment used in these environments.

- GORE-TEX® waterproof & breathable dry suit fabric
- Mobility Based Sizing™ offer semi-custom size fits without the custom price tag
- Elongated, lightweight-polymer YKK® entry zipper
- Two-point attachment removable suspender system for an improved fit, mobility and comfort
- Rapid Repair Technology™ enables users to self-replace neck and wrist seals and repair small leaks in an hour or less
- Rapid Repair Adjustable Neck Seal, combines the benefits of our adjustable neck seal with our Rapid Repair Technology™
- Nylon reinforced elbows, knees, seat, and overcuffs
- Molded foam knee and elbow pads help prevent injury
- Adjustable tail bone protector pad
- Pull adjust waist belt
- Integrated GORE-TEX® dry socks
- Neck collar for abrasion protection
- 2 arm pocket and 2 thigh cargo pockets
- Leg and wrist over cuffs have Velcro® closures for adjustability
- SOLAS retro-reflective tape for increased visibility

MSD624 03 - SENTINEL™ SERIES WATER RESCUE DRY SUIT (CONT'D)

The Sentinel Series Water Rescue Dry Suit is easily donned/doffed by the wearer using a diagonal watertight entry zipper across the torso and wearer's left shoulder. Customized fit can be achieved through adjustment of the internal suspenders to modify trunk length for improved range of motion.

Every Sentinel Series Water Rescue Dry Suit produced by Mustang is leak tested to ensure waterproof integrity prior to leaving our factory. All suits are 100% tested to ensure the highest level of reliability and performance.

WARNING: Dry suits alone provide inadequate protection for extreme climate differences. All users should wear appropriate wicking thermal undergarments to prevent hypothermia (in cold climates) and moisture wicking undergarments to prevent heat stroke (in warm climates).

WARNING: Dry suits are not inherently buoyant. All users should wear appropriate flotation devices with the dry suit. Water rescue and SAR are inherently dangerous. Users should be aware of risks associated with these types of operations and complete training in the use of water rescue operations equipment and techniques.

SENTINEL SERIES SIZING GUIDE

Exclusively available for the Sentinel™ Dry Suits, we introduce the industry's newest improved fitting platform designed specifically for dry suit users for tactical, rescue or special operations.

Based on more than two years of extensive anthropometric research, range of motion testing and user evaluations, Mobility Based Sizing™ offers users a semi-custom suit that reduces bulk and increases range of motion without the expensive custom price tags or long lead times.

The **Mobility Based Sizing™** platform is like none other currently in the industry.

There are **25 sizes** available. To order a suit that fits you best, please follow the instructions provided on our website at:

www.mustangsurvival.com/mobility.

	EXTRA SMALL	SMALL	MEDIUM	LARGE 1	LARGE 2	EXTRA LARGE	DOUBLE EXTRA LARGE	TRIPLE EXTRA LARGE	QUAD EXTRA LARGE
SHORT	XSS	SS	MS	L1S	L2S	XLS	XXLS	3XLS	-
REGULAR	XSR	SR	MR	L1R	L2R	XLR	XXLR	3XLR	4XLR
LONG	XSL	SL	ML	L1L	L2L	XLL	XXLL	3XLL	-

INSTRUCTIONS FOR USE

This manual supplies instructional, maintenance and safety information for the Sentinel Series Water Rescue Dry Suit.

CCS™ ADJUSTABLE NECK SEAL

Mustang's patented Closed Comfort System CCS™ can be worn loose to provide comfort out of the water and can quickly be drawn tight to keep the water out. The adjustable seal also provides increased durability compared to traditional latex seals and allows the suit to be worn by multiple users without compromising waterproof integrity.

CAUTION: THE CLOSED COMFORT SYSTEM NECK SEAL (CCS™) MUST BE FULLY CLOSED TO PREVENT WATER INTAKE.

1. The CCS™ neck seal can be worn loose for comfort, but whenever there is a risk of accidental immersion the neck seal should be closed enough so that there aren't any gaps between the neck seal and the wearer's neck.
2. To close, pinch the toggle while pulling the elastic drawstring away from the neck. For maximum effectiveness the neck seal should be adjusted to be snug, but not uncomfortably tight
3. Once the neck seal has been drawn tight, the Velcro® tabs can be attached to keep the elastic out of the way.
4. To loosen, insert fingers between the neck and the neck seal while pinching the toggle. Then gently pull on the neck seal with your fingers to loosen.

NEOPRENE WRIST SEAL FITTING

The neoprene seals should only be trimmed if they are unreasonably tight and restrict blood flow. The below chart indicates the target body dimensions for the standard neoprene seals. The seals are designed to fit the individuals with the smallest measurements. If your neck and/or wrist is larger than the target dimensions, you will likely have to trim your seals. If your measurements are better suited to another size, you can order a Rapid Repair replacement kit in the appropriate size.

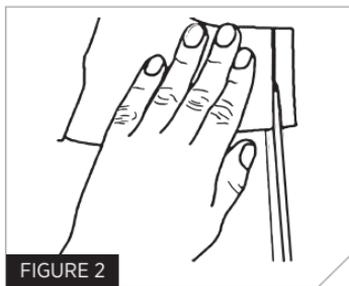
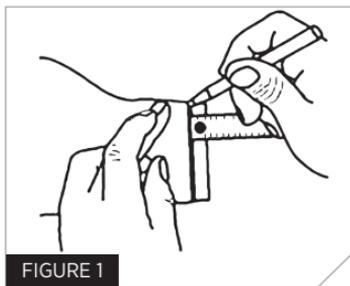
SUIT SIZE	TARGET NECK CIRCUMFERENCE		TARGET WRIST CIRCUMFERENCE		RAPID REPAIR REPLACEMENT KIT	
	INCH	CM	INCH	CM	NECK SEAL	WRIST SEAL
XS	12"	30.5CM	5.75"	14.6CM	RE0007-XS	RE0009-S
S	13.25"	33.6CM	5.75"	14.6CM	RE0007-S	RE0009-S
M-L2	14.25"	36.2CM	6.25"	15.9CM	RE0007-M	RE0009-M
XL-4XL	15.25"	38.7CM	6.75"	17.1CM	RE0007-L	RE0009-L

If seal trimming is required, proceed as follows:

CAUTION: Trim seals with extreme caution. A smooth trim line is essential. Excessive or careless trimming could result in loose seals that leak and necessitate replacement. Avoid nicking seal fabric, as this could result in tearing the seals when donning and doffing, and also could result in skin irritation. Trim only $\frac{1}{8}$ " at a time. You can always trim more, but you can't replace what you have cut off.

Required materials:

- Ruler
- Sharp scissors
- White china marker or silver pen



NOTE: ONLY NEOPRENE SEALS CAN BE TRIMMED USING THIS PROCEDURE.

1. Trim only $\frac{1}{8}$ " at a time. Using a ruler, mark a circular line around the seal that is offset from the edge of the cuff end by $\frac{1}{8}$ ".
2. Using sharp scissors carefully cut the cuff end at the marked line. Evaluate the fit and repeat step 1 & 2 until there is a proper fit.

NOTE: VISUALLY INSPECT THE TRIMMED EDGE FOR NICKS. IF THE CUT IS NOT SMOOTH AND STRAIGHT CAREFULLY TRIM OUT ANY NICKS. NICKS CAN CAUSE A TEAR DURING DONNING AND DOFFING.

3. After trimming the seals, have the user don the suit to determine seal restriction and water-sealing characteristics. Make any additional adjustments to the seal.

ATTACHING SUSPENDERS

To attach suspenders please follow the instructions below. The removable suspenders can be used to improve fit, lower in-water resistance, and reduce fatigue. Suspenders can be adjusted to a comfortable and secure position.

1. Completely unzip the entry zipper.
2. Open the suit so that the two attachment points are visible (Fig. 3).
3. Thread the end of the nylon strap attached to the suit through the rectangular clip on the suspenders (Fig. 4).
4. Once the nylon strap has been threaded, flare the sewn folds on the strap to prevent it from passing back through the rectangular clip (Fig. 5).
5. Repeat these steps for the other attachment point.
6. Use the suspender strap ends to adjust for a secure, comfortable fit.



FIGURE 3 ATTACHMENT POINT



FIGURE 4 THREADING STRAP



FIGURE 5 FLARING THE FOLD

DONNING & DOFFING THE DRY SUIT

Before donning the suit, ensure that appropriate undergarments have been selected for the conditions.

CAUTION: ALWAYS DON THE DRY SUIT ON A CLEAN SURFACE SUCH AS A TOWEL OR TARP TO AVOID ATTRACTING DEBRIS. PEBBLES, SAND, DIRT AND OTHER DEBRIS ON THE GROUND CAN CAUSE DAMAGE TO DRY SUIT SOCK AND COMPROMISE THE SUIT'S INTEGRITY.

CAUTION: USE EXTREME CARE WHEN DONNING THE DRY SUIT. PRIOR TO DONNING, REMOVE ALL RINGS, WATCHES, EARRINGS, NECKLACES AND EYEGASSES THAT WILL CAUSE DAMAGE TO WRIST AND NECK SEALS. FOOTWEAR OTHER THAN SOCKS MUST NOT BE WORN INSIDE THE DRY SUIT.

SUIT PREPARATION PRIOR TO DONNING

1. Ensure that the Velcro® wrist covers and ankle covers are unfastened.
2. Ensure waist adjusters are loosened.
3. Ensure that the waterproof entry zipper is fully opened.
4. Ensure the suspenders are pulled out of the suit legs.

DONNING THE DRY SUIT

1. Slide your legs into the suit until your toes reach the end of the socks.
2. Don the suspenders. Ensure they are crossed in back but not twisted.
3. Apply talcum powder inside wrist seals.
4. Place the right arm into the right sleeve.
5. Carefully place the right hand into the right cuff by pointing the fingers straight, tucking the thumb underneath and inserting the hand through the seal. Do not make a fist when putting your wrist through the seal.
6. Roll the Velcro® wrist covers back and refasten to a snug fit.
7. Repeat Steps 4 - 6 for the left arm.
8. Bring the upper portion of the suit over your head, aligning the neck opening with the top of the head. Reach inside the top of the neck seal with fingers and gently pull the seal outward and down as you push your head through. Flatten any folds or rolls of the seal against the skin.
9. Close the waterproof entry zipper. Reach over your left shoulder with your right hand and grasp the zipper toggle. While holding the top of the zipper, pull the toggle down until the zipper is completely fastened.

WARNING: FAILURE TO COMPLETELY CLOSE THE WATERPROOF ENTRY ZIPPER WILL RESULT IN LEAKAGE OF WATER INSIDE THE SUIT AND REDUCTION OF SURVIVAL TIME WHEN IN THE WATER. HAVE A FELLOW TEAM MEMBER DOUBLE-CHECK EACH SLIDE FASTENER TO ENSURE THEY ARE COMPLETELY CLOSED AGAINST THEIR SEALING PLUGS.

10. Tighten the ankle Velcro® covers to a snug fit.
11. Burp the suit before water entry. Cross arms in front and gently slide fingers between the neck seal and your neck, squat down and force excess air through the neck opening.

DOFFING THE DRY SUIT

1. Remove all equipment worn over the suit.
2. Thoroughly rinse down the exterior of the suit while wearing it, paying special attention to the seals and zippers. Remove all dirt, salt and debris.
3. Loosen Velcro® waist and ankle adjustment tabs.
4. Completely open the outer shell entry zipper and the inner immersion layer waterproof zipper. If not completely open, the zippers face the risk of being damaged during doffing.

CAUTION: PLACING UNDUE FORCE ON THE ZIPPER MAY DAMAGE THE SEAL AND HARM THE INTEGRITY OF THE SUIT. NEVER FORCEFULLY YANK ON THE ZIPPER.

5. Insert fingers between neck seal and neck. Gently stretch the seal outward and upward while pulling neck seal over your head.
6. Remove hands from wrist seals by holding onto the cuff or pull tab. Point your fingers straight, tucking the thumb underneath the seal. Slowly pull your hand through the wrist seal. Do not make a fist when putting your wrist through the seal or pull on the seal. Once your hands are out the seals invert the seals back out of the suit sleeve so that they are oriented away from the suit.
7. Pull suit down past hips and slide legs from the suit.
8. Follow the cleaning and storage instructions for the suit.

CAUTION: PULLING ON THE WRIST SEAL MAY DAMAGE THE SEAL.

NOTE: IF WEARING SUSPENDERS, REMOVE SUSPENDERS PRIOR TO PROCEEDING

CLEANING AND MAINTENANCE

CLEANING

1. Thoroughly rinse your dry suit after every use.

CAUTION: DO NOT DRY CLEAN. DO NOT IRON. DO NOT BLEACH.

2. Treat stains with a pre-wash treatment such as Shout® or Spray 'n Wash®. Follow the manufacturer's instructions. Rinse well.
3. Machine wash warm (104° F/40° C) on gentle cycle using a gentle powder or liquid detergent. Do not use fabric softener, bleach or wash-in treatments, as they can affect the suit's breathability.

CAUTION: USE ONLY A FRONT LOADING WASHING MACHINE OR AN TOP LOADING WASHING MACHINE THAT DOES NOT HAVE AN AGITATOR POST. WASHING MACHINES WITH AGITATOR POSTS CAN DAMAGE THE SUIT.

4. Tumble-dry using an air setting

MAINTENANCE

Regular zipper maintenance is recommended to maintain a water-tight seal, inhibit corrosion and keep the zipper gliding freely. These steps are essential to zipper longevity:

FOR PLASTIC YKK AQUASEAL® ZIPPER:

1. Clean the zipper of any heavy deposits of mud, sand, salt or foreign substances by gently brushing and rinsing the zipper with fresh water.
2. YKK® zippers need to be lubricated on the docking end approximately every 15-20 days of field use. One package of zipper lubricant is included with your suit. Only use lubricant recommended by Mustang. Visit: www.mustangsurvival.com for information.
 - a. Open the zipper to expose the W-SEAL.
 - b. Open the zipper lubricant by either ripping the package or tearing at the notch cut-out on the plastic tube seal.
 - c. Squeeze the package or tube gently and apply a small amount of lubricant to the W-SEAL as indicated in the image. Only apply to the indicated areas.
 - d. Flip over the zipper end and lubricate the back in the same highlighted areas as the front.
 - e. Close the zipper.
3. Repeat before long term storage.

CAUTION: DO NOT lubricate the zipper teeth.

NOTE: DO NOT DISCARD THE BLISTER PACKAGE OR PLASTIC TUBE. THE ZIPPER LUBRICANT CAN BE STORED IN THE ZIPLOCK BAG AND REUSED.



FIGURE 6

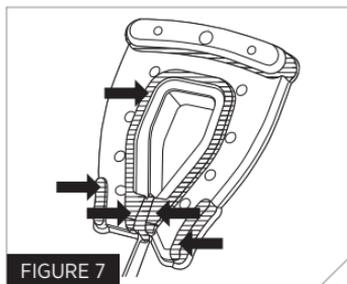


FIGURE 7

STORING THE DRY SUIT

Hang the suit with the entry zipper open.

FOLDING AND PACKING

1. Ensure that the suit is thoroughly clean and dry and that the main entry zipper is in the closed position before folding and packing.
2. Lay the suit flat on its back on a horizontal, clean surface, allowing the suit to be fully extended with none of the parts overlapping.
3. Fold the left sleeve, from the shoulder, straight across the body of the suit. Fold the right sleeve, from the shoulder, straight across the body of the suit on top of the folded left arm.
4. Fold the socks over top of the legs until they reach crotch level.
5. Fold the legs, from the crotch, up to the chest level, right below the folded sleeves.
6. Fold the suit in half.
7. To pack, roll or fold the suit ensuring that the zippers do not crease.

REPAIRS

The protection provided by this dry suit relies very much on its watertight characteristics. It is extremely important that damaged suits are handled in accordance with repair requirements.

The Sentinel Series Water Rescue Dry Suit takes advantage of Mustang's Rapid Repair Technology™ enabling users to self-replace neck and wrist seals and repair small leaks in an hour or less. For detailed information on repair procedures please visit the below website and download the user manual:

www.mustangsurvival.com/rapid-repair-technology

All major repairs should be performed by the manufacturer. For inspection, testing, and repair information, please contact our customer service department at:

1 800 526 0532

custserv@mustangsurvival.com

ACCESSORIES

The following Accessories are available for your Sentinel Series Lightweight Boat Crew Dry Suit:

NEOPRENE SURVIVAL HOOD (PART # MA7348)

SENTINEL DRY SUIT LINER (PART # MSL600)

SENTINEL FEMALE DRY SUIT LINER (PART # MSL601)

PLASTIC YKK AQUASEAL® ZIPPER LUBRICANT (PART # MA0094)

HUDSON™ REPLACEMENT SUSPENDERS (PART #MA0200)

SENTINEL™ SERIES BASE LAYERS (MSL602/603/604/605/606)

For more information on these items please visit:

www.mustangsurvival.com.

WARRANTY INFORMATION

LIMITED WARRANTY/ Mustang Survival products are warranted to be free from defects in materials and workmanship for a period of one year from the date of purchase by the initial purchaser (the Customer End User) under normal and intended conditions and use. Proof of purchase may be required at the discretion of Mustang Survival.

Products, which, in the sole judgment of Mustang Survival, have received excessive or abusive use or have been altered in any way by a dealer, the Customer or any other person, will not be covered by this limited warranty. Mustang Survival requires return of the product (postage or delivery costs prepaid by Customer) for inspection before determining whether the product will be covered under limited warranty.

A return authorization is required before the goods are returned and should be obtained by contacting our Customer Service Department. Once returned, Customer Service, Quality Assurance and Sales Departments inspect the product as required. It is then determined whether the product will be covered under this limited warranty. If the product is deemed to be covered under our warranty policy, it will either be repaired or replaced at the sole discretion of Mustang Survival at no charge to the Customer.

The only obligation or liability of Mustang Survival under this limited warranty is to repair or replace the product and Mustang Survival shall not, under any circumstances be liable for loss of use or any consequential damages sustained by the Customer. All other warranties expressed or implied, and remedies with respect to the condition or use of the product, which might otherwise be provided by law in any jurisdiction, are specifically excluded.

CONTACT

For further information concerning this manual or the suit, contact
Mustang Survival:

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MUSTANG ENGINEERED

For 50 years Mustang Survival has been engineering high-performance marine gear for military, coast guard, and rescue personnel. With a focus on applied research and field-testing, we're committed to the protection and enhancement of those who push themselves to extremes. We build gear that saves lives and fuels exploration.

www.mustangsurvival.com

DO NOT REMOVE PRIOR TO SALE.

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HT0624 REV 11MAY2022