



LION®
ready for action

SMARTDUMMY™
RESCUE
MANNEQUIN

[USER'S MANUAL



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SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

*SMARTDUMMY™
EXTRICATION MANNEQUIN*



FOR YOUR SAFETY

1. Do NOT perform training or attempt to operate the SmartDummy™ Rescue Mannequin without reading the entire “User’s Manual.”
2. To prevent injury when handling or lifting the SmartDummy Rescue Mannequin, two people must be employed, and only approved and tested methods for hauling and lifting should be utilized.
3. Do NOT alter the SmartDummy Rescue Mannequin without approval from LION. *Alteration of the SmartDummy Rescue Mannequin without approval will void the warranty.*
4. Do NOT use SmartDummy Rescue Mannequins for water rescue training.
5. Do NOT expose SmartDummy Rescue Mannequins to direct flame.
6. Be careful during training scenarios where the SmartDummy Rescue Mannequin is in the vicinity of flames as the surface can become hot and could cause contact burns on bare skin. As always, proper PPE should be worn during training.
7. The SmartDummy Rescue Mannequin should be thoroughly inspected and cleaned on a regular basis by trained personnel. *See the **Inspection** and **Maintenance** section of this manual.*
8. Do NOT drop SmartDummy Rescue Mannequins more than 10 ft. (3.0 m). The drop could cause damage to the mannequin.
9. **Serious injury or damage to property may occur if the above guidelines are not followed exactly.**



1. WHAT IS A SMARTDUMMY™ RESCUE MANNEQUIN?

The SmartDummy Rescue and SmartDummy Extrication Mannequins were designed for emergency rescue training exercises. They can be trapped, pinned, suspended, or placed in an unlimited number of positions. They can be located and dragged/carried out of smoke-filled areas, tunnels, or vehicles and can play the role of victim during literally thousands of rescue training evolutions.

The SmartDummy Rescue Mannequin is appropriate as a training tool for exercises involving the rescue of multiple victims, transport of the wounded or injured and survival tests.

The SmartDummy Extrication Mannequin offers additional training opportunities simulating a variety of serious injuries including severed limbs or impalement.

The “optional” SmartDummy Rescue Mannequin Voice Box allows limited visibility rescue training in hazardous environments.



2. SMARTDUMMY™ RESCUE MANNEQUIN SPECIFICATIONS

SmartDummy Rescue Mannequins imitate the form of a human body and are made of heavy-duty canvas; stress seams are reinforced with polypropylene strips. They are outfitted with rubber boots to increase realistic drag friction during victim removal. The SmartDummy Rescue Mannequins are weighted to better replicate the flexibility of the human form, making them suitable for various types of victim transportation.

The SmartDummy Rescue Mannequin Voice Box fits into an opening in the head, allowing for more realistic training exercises. The Voice Box opening is closed off with a protective Velcro flap.

The SmartDummy Extrication Mannequin is equipped with a detachable left arm and leg which are secured with clasps. The impalement cavity on the chest simulates puncture wounds and passes through the entire torso.

DIMENSIONS AND WEIGHT	
Total Length of SmartDummy Rescue Mannequin (Including Boots)	Approx. 5 ft. (1.5 m) 11 in. (28 cm)
Total Weight	55 lb. (24.9 kg) or 110 lb. (49.9 kg) <i>(The SmartDummy Rescue and SmartDummy Extrication Mannequins are both available in either weight).</i> A weighted vest, adjustable up to 60 pounds (27.2 kg), is also available for purchase.
Color	Blue/black

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CONDITIONS SUITABLE FOR USE	
PERMISSIBLE AMBIENT TEMPERATURE	
Continuous Exposure	110°F (43°C)
Brief Periods (no more than 5 minutes)	400°F (204°C)
Incidental Exposure (for no more than 1 minute)	500°F (260°C)

BE AWARE OF RADIANT HEAT; THE SURFACE TEMPERATURE OF THE SMARTDUMMY™ RESCUE MANNEQUIN CAN RISE VERY QUICKLY, POTENTIALLY CAUSING CONTACT BURNS TO UNPROTECTED SKIN AND DAMAGE TO THE MANNEQUIN.

NOTE
SmartDummy Rescue Mannequins are not suitable for water rescue training.

NOTE
Dragging the SmartDummy Rescue Mannequins on abrasive surfaces without protective clothing may cause extra wear and tear on the outer layer. Fitting the SmartDummy Rescue Mannequin with LION Protective Overalls will prolong the life of the mannequin.

3. USING YOUR SMARTDUMMY™ RESCUE MANNEQUIN

In accordance with NIOSH training recommendations for victim rescue, recovery and retrieval, LION advises the use of SmartDummy Rescue Mannequins for all training operations during which wounded persons are rescued from dangerous situations. This prevents situations from arising in which a person playing the role of the victim is exposed to unnecessary risks. This is particularly true of exercises that involve confined space, heavy machinery, or actual fire. The NFPA Standard 1403 for Live Fire Training Evolutions expressly prohibits the use of a person or persons to play the role of victim in a live fire drill.

APPLICATIONS

SmartDummy Rescue Mannequins can be used for most rescue training exercises excluding water rescue and exposure to direct flame or extreme temperatures. Various transport techniques and styles for removing victims from dangerous locations can be practiced, however all health, safety and environmental regulations must be followed.

The SmartDummy Extrication Mannequin's left arm and leg are removable. Loosen the clasps and position the arm and leg as desired. A pipe or similar intrusive object can be pushed through the SmartDummy Extrication Mannequin's chest cavity to simulate impalement.

The SmartDummy Rescue Mannequin Voice Box can be installed to simulate realistic exercises in which the SmartDummy Rescue Mannequin calls out, indicating its position. The Voice Box is an electronic device which can record and play back user-created speech and sounds. This makes it possible for the SmartDummy Rescue Mannequin to indicate the nature of the emergency or to give information about other victims.

For search and rescue exercises, the Voice Box can also be used as a sound beacon. By calling out to it, one can activate the Voice Box, which will then play back a pre-recorded message. The user can opt to have the message play once or in a continuously repeating cycle.

4. SMARTDUMMY™ RESCUE MANNEQUIN VOICE BOX* CONTROLS

ON AND OFF

These switches are for turning the Voice Box on and off. The red light above the **ON** switch is lit when the Voice Box is powered on. Each time the Voice Box is turned to the “on” position, the recorded message will play a single time.

REC.

Pressing this switch activates the recording function, enabling the user to record a message or sound effect. Keep the switch depressed to record. The maximum recording time is 15 seconds. The red light above the switch indicates that the recording function is activated.

ACTIV.

Press this button to play the recorded message once.

SINGLE AND CONT.

When the Voice Box is switched on, the setting **SINGLE** is activated automatically and the message is played once. This mode will play the message whenever the microphone is triggered.

If the **CONT.** setting is switched on, the red light above the switch will be lit. The message will then be repeated continuously while the Voice Box is powered on.

SENS.

The sensitivity of the microphone can be adjusted with a small screwdriver. The user can then decide how loud the triggering sound has to be before the Voice Box reacts. Adjust the dial carefully; remove gloves before adjusting the dial.

*Product sold separately

VOL

The user can adjust the volume of the speaker with a small screwdriver. Adjust the dial carefully; remove gloves before adjusting the dial.

NOTE

The Voice Box uses four AA batteries. LION recommends alkaline batteries. Be careful when adjusting the sensitivity of the microphone and volume.

OVERTURNING THE DIALS WILL BREAK THEM AND ELIMINATE THE ABILITY TO ADJUST THE VOLUME AND/OR SENSITIVITY.



5. INSPECTION AND MAINTENANCE

INSPECTION BEFORE AND AFTER USE

Inspect the SmartDummy™ Rescue Mannequin for damage before and after each use. Minor damage can often be repaired. However, if a damaged SmartDummy Rescue Mannequin is used for a training exercise, the damage may increase to the extent that it will no longer be possible to repair.

CLEANING AND STORING THE SMARTDUMMY RESCUE MANNEQUIN

The SmartDummy Rescue Mannequin exterior is made of strong canvas material designed for easy cleaning. Protective overalls are recommended to enhance the durability of the SmartDummy Rescue Mannequin. For spot cleaning, a cloth moistened with water, or an all-purpose cleaner may be used.

Heavy-duty cleaners or solvents should not be used. If the SmartDummy Rescue Mannequin becomes wet or damp during use or while being cleaned, avoid storing it until it has completely dried. To dry, LION recommends suspending the SmartDummy Rescue Mannequin from a heavy-duty hanger or hook in a neutral temperature setting.

DECONTAMINATION

If the SmartDummy Rescue Mannequin is exposed to a hazardous substance during a training exercise, it should be decontaminated in a manner appropriate for the material concerned.

REPAIRS

If repairs are necessary, contact your distributor or LION for assistance.

6. SAFETY MEASURES AND INSTRUCTIONS

SAFETY MEASURES

The SmartDummy™ Rescue Mannequin is a valuable training tool which should be handled properly. It has been designed for routine training operations. Dragging the SmartDummy Rescue Mannequin in a manner that would cause injury to a person may cause damage to the SmartDummy Rescue Mannequin. Allowing the SmartDummy Rescue Mannequin to fall from a considerable height may compromise the structural integrity of the outer layer and cause it to be torn open. High ambient temperatures can also cause permanent damage. If the SmartDummy Rescue Mannequin is exposed to a hazardous substance, it should be decontaminated before further use.

Adding extra weight other than LION optional accessories could cause permanent damage and void the warranty.

When making preparations for a training exercise, ensure that no sharp or hot materials are in proximity to the SmartDummy Rescue Mannequin.

RECOMMENDATIONS AND SAFETY INSTRUCTIONS

Before starting an exercise and/or training session, all participants should be instructed that the SmartDummy Rescue Mannequins are to be moved in accordance with normal transport techniques. If a weighted jacket is used, participants should be notified of the weight amount to ensure proper lifting procedures.

The weights used in combination with an incorrect transport technique can cause back problems and/or muscle damage.

The SmartDummy Rescue Mannequins are not suitable for continued exposure to high temperatures. High ambient temperatures or radiant heat from a fire can damage the outer layer. The outer layer is constructed of fire resistant material and is self-extinguishing, however, the SmartDummy Rescue Mannequin is not fireproof. See the following guidelines for using the SmartDummy Rescue Mannequin in live fire training.

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SMARTDUMMY™ RESCUE MANNEQUIN LIVE FIRE TRAINING GUIDELINES

The SmartDummy Rescue Mannequin may be used for training in live fire evolutions provided that the following guidelines are followed:

1. Placement

- Lying down – as close as 5 feet (1.5 m) to a 100 lb. (45.4 kg) wood/hay fire.
- Seated position – as close as 10 feet (3.0 m) to a 100 lb. (45.4 kg) wood/hay fire.
- Standing – as close as 12 feet (3.7 m) to a 100 lb. (45.4 kg) wood/hay fire, **as long as it is 3 feet (.09 m) from any wall.**
- Do not stand the SmartDummy Rescue Mannequin **against a wall** anywhere in a live burn room.
- Exceeding recommended temperature exposure limits may result in damage and will void the warranty.

2. Voice Box

The Voice Box is not suitable for use in live fire training evolutions. Remove prior to training in live fire scenarios.

3. Nomex® Coveralls

The use of the optional Nomex coveralls may increase the temperature resistance of the SmartDummy Rescue Mannequin. However, recommended exposure limits should still be followed.

7. WARRANTY INFORMATION

The warranty period commences on the ship date and continues for one full year. LION will cover premature failure of any of our products caused by a defect in the original materials or workmanship. Labor charges related to warranty repair are 100% covered during the warranty period. Repair work requires the prior approval of an authorized company representative. LION labor costs are based on a predetermined rate schedule and any repair work must be done through an authorized LION dealer. This warranty covers labor and parts-related defects. This warranty does not cover neglect, accidents, misuse, or negligence on the part of the user. This is not a warranty against general “wear and tear” that may need to be repaired during general usage.

CONDITIONS AND LIMITATIONS

LION warrants its products against manufacturing defects to the original purchaser only – i.e., the individual or legal entity (registered customer) whose name appears on the invoice – provided that the purchase was made through LION or an authorized LION dealer and is subject to the following conditions and limitations:

This factory warranty is nontransferable and may not be extended whatsoever by any of our representatives. Assembly and use must be done in accordance with the instructions included with the product. This Limited Warranty does not cover any damage caused by misuse, lack of maintenance, hostile environments, accident, alterations, abuse or neglect, and parts installed by other manufacturers will nullify the warranty.

Abrasive and chemical cleaner damage is not covered under the Limited Warranty. In the first year only, this warranty extends to the repair or replacement of warranted parts which are defective in material or workmanship provided that the product has been operated in accordance with the operation instructions and under normal conditions.

After the first year, LION will not be responsible for replacement part expense, installation, labor or any other costs or expenses related to the reinstallation of a replacement part, and such expenses are not covered by this warranty.

Notwithstanding any provisions contained in this Limited Warranty, LION's responsibility under this warranty is defined as above and it shall not in any event extend to any incidental, consequential or indirect damages.

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This warranty defines the obligations and liability of LION with respect to the LION product and any other warranties expressed or implied with respect to this product.

This limited warranty does not cover damages resulting from the use of components not supplied with the product.

Any damages to the product due to weather, long periods of dampness, condensation, damaging chemicals or cleaners will not be the responsibility of LION.

The bill of sale or copy will be required when making any warranty claims from LION or authorized dealer.

LION reserves the right to have its representative inspect any product or part thereof prior to honoring any warranty claim. LION or its representatives shall not be liable for ANY transportation charges, labor charges or duties.

8. CONTACT INFORMATION

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