INSTRUCTION MANUAL

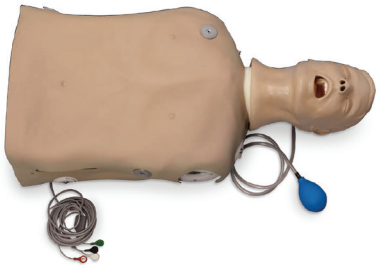
Deluxe Crisis Manikin Torso

LF03958U

5 Year Warranty

Nasco HEALTHCARE

About the Simulator



The “Airway Larry” Manikin is a Complete Resuscitation System consisting of modular components that allow you to create a manikin to suit your changing needs. The components may be purchased as a complete package or separately to update your existing manikin. Update packages are compatible with all versions of both CPARLENE and Resusci Anne.

This manual will guide you in setting up, using, and maintaining each of the available components. Each section also includes a list of replacement parts, supplies, and auxiliary equipment.

By reading and following all instructions carefully and completely, you can be sure your Lifeform “Airway Larry” Manikin will provide years of valuable service.

CLEANING

Normal surface soil can be removed from the trainer with mild soapy water. Do not allow water to contact electrical components. Stubborn stains may be removed with Cleaner (LF09919U). Simply apply the Cleaner to the soiled area and wipe clean with a soft cloth.

Note: Avoid using cleaner around the mouth area if students will be applying direct mouth-to-mouth resuscitation techniques, as the cleaner may be toxic if ingested. NEVER place the trainer on any kind of printed paper or plastic. These materials, as well as ball-point pens, will transfer indelible stains. Do not use any cosmetics.

LIST OF COMPONENTS

1. “Airway Larry” Torso Manikin
2. Defibrillation Chest Skin
3. Arrhythmia Tutor
4. 8oz. Pump Spray Lubricant
5. Nasco Cleaner
6. Small Towel

Nasco *Life/form*® Airway Management Head

ABOUT THE SIMULATOR

The Lifeform Airway Management Trainer Head is the most realistic simulator available for the training of intubation and other airway management skills.

We have taken great care to create an airway management trainer that is anatomically correct in respect to both size and detail. Landmarks include nostrils, teeth, tongue, oral and nasal pharynx, larynx, cricoid ring, epiglotis, arytenoid, false and true vocal cords, trachea, esophagus, “Airway Larry” set, and stom-

About the Simulator Continued

ach.
Our Airway Management Trainer Head allows you to practice oral, digital, and nasal intubation. E.T., E.O.A., PTL, and Combitube insertion can all be practiced as well (please see "Using The Combitube"). Suction techniques and proper cuff inflation can also be performed and evaluated.

Lubricating the Airway Trainer Head

Lubricate both the simulator and supplies being used with the pump spray lubricant provided (See Figures 1 & 2).

Note: We recommend the use of the provided lubricant or a similar vegetable-based lubricant for the Airway Management Trainer Head. The use of a silicone-based lubricant may cause damage to the simulator, thus voiding our warranty on the trainer.

SET UP

A. Connecting the Airway

1. The manikin's airway has been disconnected to prevent damage during shipping. To connect the airway, remove the chest skin, chest plate, compression springs, and upper compression plate.

Note: Caution must be taken not to damage the defibrillation electronics attached to the chest skin when removing the skin from the manikin.

2. Remove the lung bags from the upper compression plate. Connect the right and left lung bags to the adapters in the right and left bronchi (See Figure 3).

B. Installing the Chest Compression Plate

1. Remove the compression springs from the packaging. Insert the springs into the four plastic cylinders extending up from the lower compression plate (See Figure 4).

2. Before replacing the upper compression plate, make sure the lung bags are connected to the tracheal tube extending from the lower portion of the neck of the Airway Management Trainer Head.

3. Position the upper compression plate over the springs so that each of the springs fits up into a cylinder on the bottom of the upper compression plate (See Figure 5).

4. Place the lung bags through the hole in the center of the upper compression plate so they rest on top of the plate (See Figure 6).

5. Place the chest plate back over the upper compression plate and lungs.

6. Reattach the chest skin by adjusting the hook-and-loop edges. Again, be careful not to damage the electronics attached to the chest skin.

Figure 1

Set Up Continued

Figure 2

Figure 3

Figure 4

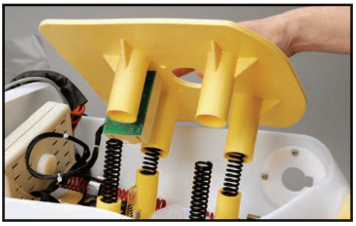


Figure 5

Figure 6

Cleaning and Maintenance

To clean the Airway Management Trainer Head, you will need to remove the head from the manikin. To do so, disconnect the lungs from the bronchi. Then, rotate the head so that it is facing backwards. The large tab on the front of the neck should be aligned with the keyway in the torso. Tilt the head upward until it snaps free. Disengage the smaller rear tabs from the neck opening and pull the head from the body (See Figure 7). Reverse these steps to reattach the head.

Next, take the trainer to an area with a sink and open counter space. Using the red cap supplied, plug off the right and left bronchus (the esophagus should already be plugged). Stabilize the head on the counter face-up (towels work well for this) with plugged tubes hanging over the sink (See Figure 8). Carefully pour warm soapy water (a mild dish soap works best) into the mouth until the water level reaches halfway up the tongue. Tilt the head back and bring the neck up 3" off the countertop.

Continue filling until the water level covers the tongue. At this point, take a small soft brush and gently scrub the inside of the mouth (a small toothbrush works well for this). Cotton swabs can be used to scrub inside the nostrils. When done, pull the plug from the esoph-

Set Up Continued

agus and drain the water into the sink. Now pick the head up, hold it in a vertical position, and pull the plugs from the trachea to completely empty the system (See Figure 9).

Figure 7

Figure 8

Figure 9

Disinfecting the Airway

To disinfect, repeat the standard cleaning procedure, but this time use a bleach solution instead of soapy water, as specified by the Centers for Disease Control. Fill the system with the solution until it reaches the corners of the mouth. Remember to start filling with the head flat and finish with the neck slightly elevated to ensure that the solution completely fills all airway passages. Once completely filled with the bleach solution, allow the head to sit for at least 10 minutes. Drain as described earlier and repeat the rinsing process to flush out all of the bleach solution. Set the head aside and allow it to dry completely.

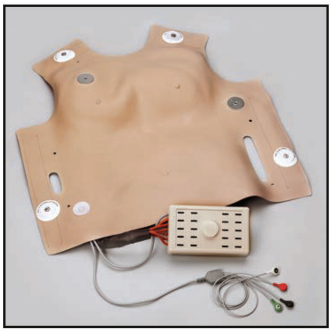
Disinfecting the Airway

Thoroughly read and follow the instructions that come with the Combitube. The trainer will accept either a full-size or a small adult tube. As with a live patient, it may be necessary to back the tube out slightly if ventilation cannot be established.

Note: Depending on tube placement, the large cuff may not accept the recommended amount of air. In this case, simply inflate the cuff to its maximum volume (when the plunger stops), detach the syringe from the blue pilot balloon while holding the plunger down, and proceed.

Supplies/Replacement Parts

LF03285U Replacement Lung System
LF03644U Pump Spray Lubricant
LF09919U Cleaner



Nasco *Life/form*® Defibrillation Chest Skin

ABOUT THE SIMULATOR

The Crisis System Defibrillation Chest Skin has been designed to absorb a maximum of 360 joules of energy. Although capable of absorbing 360 joules, we do recommend that the smallest energy level possible be used while training with the skin.

The Crisis System Defibrillation Chest Skin will enable you to practice defibrillation using manual, semiautomatic, and automatic external defibrillators (AEDs). When using any one of these in training, always follow the recommended operating procedures for that particular defibrillator.

The “Airway Larry” Manikin comes with the Defibrillation Chest Skin in place and ready for use.

Note: 360 joules is the maximum energy level that we recommend administering to the Defibrillation Chest Skin. Energy levels in excess of 360 joules may cause irreparable damage to the chest skin, circuitry, and patient simulator being used - thus voiding the warranty and endangering your equipment. We assume no liability for damage or injury that may be caused by the use and/or misuse of this equipment. All normal safety precautions for defibrillation training should be followed and energy levels should be minimized. We did not design nor intend this Defibrillation Chest Skin to be used as anything other than a training apparatus for defibrillation.

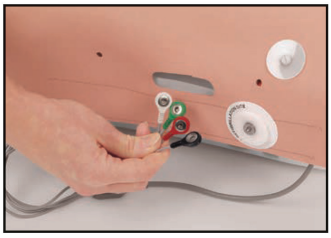


Figure 1

Connecting Your Arrhythmia or Patient Simulator

We have designed the Crisis System to be compatible with a variety of patient simulators. This is possible via the standard four-lead snap cable (See Figure 1). If your patient simulator has only two output posts, the red and black leads must be connected to the patient simulator.

You may want to connect the manikin to the simulator that came with your defibrillator. If your patient

About the Simulator Continued

simulator doesn't have the standard snap connectors, it will be necessary to purchase the corresponding adapters. To order, please see "Supplies/Replacement Parts."

Once your manikin is connected to your patient simulator, you will be able to pick up the ECG waves either through the monitor hookups on the skin or through the two disks attached to the skin on the defibrillation sites.
These disks will enable you to pick up the ECG wave using either the "Quick Look" paddle option or directly through gel pads, just like on a real patient.

It is possible to use AED gel pads with the cable connectors built into the gel - the same ones you use on patients. In an effort to help you save money, we do offer a set of defibrillation pad and patient simulator adapters that will correspond to your particular AED unit. These defibrillation pad and patient simulator adapters can be reused again and again. They come as a set. (See Supples/Replacement Parts".)

TROUBLESHOOTING

Problem:
ECG Wave is not being picked up from the manikin.
Solution:
1. Check your connections on the patient simulators; one or more may be disconnected.
2. Check to make sure your patient simulator is plugged in and working properly.
Problem:
ECG wave is inverted.
Solution:
Recheck the position of the red and black lead snaps on the patient simulator.
Note: If the defibrillation skin is not functioning or wiring comes undone, please contact us to repair or replace the unit. Failure to do so, or unauthorized repair, may void the warranty or cause further harm or damage to your equipment.

SUPPLIES/ REPLACEMENT PARTS

LF03656U Physio Control Training Pad Adapters and Patient Simulator Adapters for LifePak 10 and LifePak 20
LF03657U Marquette Electronics Training Pad Adapters and Patient Simulator Adapters
LF03658U SpaceLabs/Laerdal/ Heartstart/First Medic Training Pad Adapters and Patient Simulator Adapters
LF03961U Zoll Training Cables with Adapters
LF03962U Physio Control Training Cables with Adapters for LifePak 12
Note: If you need help selecting the training cables or adapter posts that correspond to your AED unit, please feel free to call or email us for assistance.

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