

Nasco
Life/form®

**ADVANCED “Airway Larry” AIRWAY
MANAGEMENT TRAINER
LF03685U
INSTRUCTION MANUAL**



Life/form® Products by NASCO

NASCO *Life/form*® Advanced Airway Management Head

About the Simulator...

The *Life/form*® Advanced Airway Management Trainer Head is the most realistic simulator available for the training of intubation and other airway management skills. Now with the added features of laryngospasm and tongue swelling, this trainer will provide students with an easy-to-use model that will build their confidence and expertise while still providing a realistic intubation experience.

NASCO has taken great care to create an advanced 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, epiglottis, arytenoid, false and true cords, trachea, esophagus, “Airway Larry” lung set, and stomach.

NASCO’s Advanced Airway Management Trainer Head allows you to practice oral, digital, and nasal intubation. E.T., E.O.A., PTL®, LMA, 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.

In addition, this model also allows students to apply cricoid pressure during the intubation procedure (Sellick’s Maneuver). By locating the larynx and depressing the cricoid ring, the student may realistically lower the vocal cords farther into the field of view. This also effectively closes off the esophagus of the simulator.

The Airway Management Trainer head can be detached from the training stand



Figure 1



Figure 2

and placed on **CPARLENE**® or Resuscit[®] Anne™* brand manikins, creating a valuable mega-code component. With proper care, your *Life/form*® Airway Management Trainer will provide years of valuable service. Please review the instructions carefully for set-up, clean-up, and maintenance procedures.

List of Components:

- Advanced “Airway Larry” Airway Management Head
- 8-oz. Pump Spray Lubricant
- 20 cc syringe (2)
- Left and right simulated lungs
- Simulated stomach

Setup:

The Advanced Airway Management Trainer is ready to use upon delivery. Simply remove it from the carton, and unwrap the packaging material.

Lubrication:

Before using the Advanced Airway Management Trainer Head, lubricate both the simulator and supplies being used with the NASCO lubricant provided (Figures 1 & 2).

PLEASE NOTE: NASCO recommends the use of the provided lubricant or a similar vegetable-based lubricant for the "Airway Larry" Airway Management Trainer. The use of a silicone-based lubricant may cause damage to the simulator, thus voiding NASCO's warranty on the trainer.

Using the Combitube®:

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 100 ml of air. If so, simply inflate the cuff to its maximum volume (when the plunger stops). While holding the plunger down, detach the syringe from the blue pilot balloon, and proceed.

Removing the Head from the Stand:

To remove the head from the stand, the lungs and stomach bag must first be removed. Do this by sliding each lung out from the connector fitting and removing the clamp that holds the stomach in place (Figure 3).



Figure 3

*Resusci® Anne™ is a trademark of Laerdal Medical Corporation.

Next, turn the head slightly to the side to align the keyways with the slots, and pull the head from the stand (Figure 4).



Figure 4

To remount the head on the stand, simply reverse this procedure.

Attaching the Head to the Manikin:

As explained earlier, NASCO's Advanced Airway Management Trainer has the ability to be attached to both **CPARLENE®** and any of the non-modular Resusci® Anne™* brand manikins. To attach the Airway Management Trainer head to the above manikins, you must first remove the lung and stomach bags if they are attached to the trainer.

Next, turn the head face down and begin inserting it at the shoulders. Tip the head upward slightly until the two keyways on the back of the neck slide under the ring and into the top of the torso (Figure 5).



Figure 5

Now match the single keyway on the neck front up to the slot on the backside of the torso, and push the head down until it snaps into place. Rotate the head back around so that it is facing up and in the correct position.

Connecting the Airways:

Once the head is in place, connect the **CPARLENE**[®] lung bag to the right bronchus by sliding the cap plug over the white adapter in the bronchus (Figure 6).



Figure 6

Then use the provided red cap plugs to plug the esophagus and the left bronchus (Figure 7). This will ensure the system is sealed and operational.



Figure 7

*NOTE: NASCO's Advanced Airway Management Trainer will fit on all models of **CPARLENE**[®] and Resusci[®] Anne[™]* manikins. To adapt the Airway Management Trainer head to the Resusci[®] Anne[™]*, we have included an adapter piece (Figure 8).*

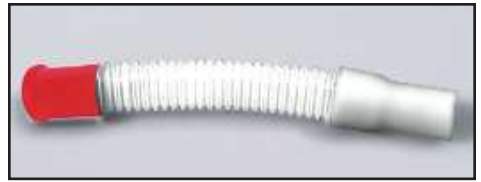


Figure 8

Remove the Resusci[®] Anne[™] head and the connected section of corrugated tubing down to the valve. Install the Airway Management Trainer head and hook it up to the lung system with the adapter piece. Place the red cap end over the white fitting of the right bronchus and hook the other end to the lung bag valve nipple (where the previous corrugated tubing had been connected).*

To remove the head from the manikin, reverse the attachment procedure.

Laryngospasm

Pull the plunger of a 20 cc syringe and attach it to the red stopcock (Figure 9). Depress the plunger to force 1-5 cc of air into the system. Close the tubing port at the stopcock to maintain the pressure within the larynx. The syringe may be removed at this point.



Figure 9

Tongue Swelling

Pull back the plunger of a 20 cc syringe and attach it to the yellow stopcock (Figure 10). Depress the plunger to force approximately 10 cc of air into the system. Close the tubing port at the stopcock to maintain the pressure. The syringe may be removed at this point.



Figure 10

Caution: Do not overinflate! Excessive pressure may rupture the system. Stop inflation when resistance is felt or the larynx is observed to close. Always release the pressure when finished training by opening the tubing port at the stopcock.

Cleaning and Maintenance:

To clean the Airway Management Trainer you will first need to remove the head from the stand. Next, take the trainer to an area with a sink and open counter space. Using the 3 red caps supplied, plug off the esophagus and the bronchi (Figure 11).



Figure 11

Stabilize the head on the counter face-up (towels work well for this) with the plugged tubes hanging over the sink. Carefully pour warm soapy water (a mild dish soap works best) into the mouth until the water level reaches halfway up the tongue. Now tilt the head back and bring the neck up 3" off the countertop.



Figure 12

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 esophagus and drain the water into the sink. Now pick the head up to a vertical position and pull the plugs from the trachea to completely empty the system (Figure 12).

Rinsing the Airway:

To rinse the airway, follow the same procedure using clean, warm tap water. Repeat this process until all the soap has been flushed from the system.

Disinfecting the Airway:

To disinfect, repeat the standard cleaning procedure, but this time using a bleach solution, as specified by the Centers for Disease Control instead of soapy water. 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.

Cleaning the Face:

Normal soil can be removed from the face of the trainer with mild, soapy water. REN Cleaner (W09919U) will remove stubborn stains. Simply apply REN to the soiled area and wipe clean with a soft cloth or paper towel. NOTE: Do not use REN Cleaner around the mouth and nostrils, as the residue of the cleaner could be toxic.

Caution:

Never place the trainer on any kind of printed paper or plastic. These materials will transfer indelible stains. Ballpoint pens will also make indelible stains. Do not use cosmetics.

Supplies/Replacement Parts for the Advanced "Airway Larry" Airway Management Trainer:

LF03605U Replacement Lung Kit
LF03606U Replacement Stomach Kit
LF03644U NASCO Pump Spray
Lubricant
W09919U REN Cleaner

Other Available *Life/form*® Simulators

- LF00698U** Adult Injectable Arm (White)
LF00856U Female Catheterization
LF00901U Prostate Examination
LF00906U Ostomy Care
LF00929U Surgical Bandaging
LF00957U Enema Administration
LF00958U Pediatric Injectable Arm
LF00961U Intramuscular Injection
LF00984U Breast Examination
LF00995U Arterial Puncture Arm
LF00997U Adult Injectable Arm (Black)
LF00999U Pediatric Injectable Head
LF01008U Intradermal Injection Arm
LF01012U Heart Catheterization (TPN)
LF01019U Ear Examination
LF01020U Supplementary Ear Set
LF01025U Male Cath-Ed I
LF01026U Female Cath-Ed II
LF01027U Peritoneal Dialysis
LF01028U Suture Practice Arm
LF01036U Spinal Injection
LF01037U Hemodialysis Arm
LF01062U Pelvic, Normal & Abnormal
LF01063U Stump Bandaging, Upper
LF01064U Stump Bandaging, Lower
LF01069U Cervical Effacement
LF01070U Birthing Station
LF01082U Cricothyrotomy
LF01083U Tracheostomy Care
LF01084U Sigmoidoscopic Examination
LF01087U Central Venous Cannulation
LF01095U Blood Pressure Arm
LF01108U Intraosseous Infusion Simulator
LF01121U Advanced IV Arm
LF01139U Advanced IV Hand
LF01142U Auscultation Trainer
LF01162U Venatech IV Trainer
LF03000U **CPARLENE**® Series
LF03601U Adult Airway Management Trainer
LF03602U Adult Airway Management on Manikin
LF03603U Adult Airway Management Head Only
LF03609U Child Airway Management Trainer
- LF03610U** Child Airway Management Trainer Head Only
LF03611U Child Defibrillation Chest Skin
LF03612U Child IV Arm
LF03613U Child Blood Pressure Arm
LF03614U Child Intraosseous Infusion/Femoral Access Leg Only
LF03615U Complete Child **CRiSis**™ Update Kit
LF03616U Child **CRiSis**™ Manikin
LF03617U Deluxe Child **CRiSis**™ Manikin with Arrhythmia Tutor
LF03620U PALS Update Kit
LF03621U Infant Airway Management Trainer Head Only
LF03622U Intraosseous Infusion Right Leg
LF03623U Infant Airway Management Trainer
LF03626U Child Femoral Access Injection Pad Replacement
LF03632U Child Intraosseous Infusion/Femoral Access Leg on a Stand
LF03633U Child Airway Management Trainer with Torso
LF03693U **Basic Buddy** CPR Manikin
LF03699U "Airway Larry" Airway Management Trainer
LF03720U **Baby Buddy** Infant CPR Manikin
LF03953U **CRiSis**™ Manikin
LF03955U Deluxe **CRiSis**™ Manikin
LF03965U Deluxe "Plus" **CRiSis**™ Manikin
LF04001U **GERi**™ Nursing Manikin
LF04020U **KERi**™ Nursing Manikin
LF04021U **KERi**™ Basic Manikin
LF04022U **KERi**™ Advanced Manikin
LF04030U **GERi**™ Advanced Manikin
LF04040U **GERi**™ Basic Manikin
LF06001U **CPR Prompti**™ Adult/Child Manikin
LF06012U **CPR Prompti**™ Infant Manikin
LF06200U **CPR Prompti**™ Keychain Rescue Aid
LF06200U **CPR Prompti**™ Rescue and Practice Aid

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