

Nasco
Dedicated to Delivery
Life/form®



Advanced "Airway Larry" Airway Management Trainer Head LF03684U Instruction Manual



Life/form® Products by Nasco

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 vocal cords, trachea, esophagus, “Airway Larry” lung set, and stomach.

Nasco’s Advanced “Airway Larry” 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 section titled “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.



Figure 1

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

List of Components

- Advanced “Airway Larry” Airway Management Trainer
- 8-oz. Bottle of Lubricant
- Left and Right Simulated Lungs
- Simulated Stomach
- 20 cc Syringe (2)

Set Up

The Advanced Airway Management Trainer is ready to use upon delivery. Simply remove it from the carton and unwrap the packaging material. The lung and stomach bags are already in place and ready to use.

Lubrication

Before using the Advanced Airway Management Trainer, lubricate both the simulator and supplies being used with the Nasco lubricant provided.

(See figures 1 & 2.)



Figure 2

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

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 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, and proceed.

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. (**See figure 5.**)

Now match the single keyway on the neck front up to the slot on the back-side 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.



Figure 5

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. (**See figure 6.**)



Figure 6

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

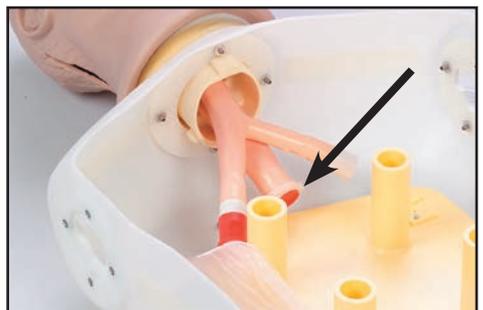


Figure 7

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

Laryngospasm

Pull back the plunger of a 20 cc syringe and attach it to the red stopcock. (See **figure 8.**) 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 8

Tongue Swelling

Pull back the plunger of a 20 cc syringe and attach it to the yellow stopcock. (See **figure 9**) 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 9

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.

Note: Our Advanced Airway Management Trainer will fit on all models of **CPARLENE®** and non-modular Resusci® Anne™* manikins. To adapt the Airway Management Trainer head to the Resusci® Anne™*, we have included an adapter piece. (See **figure 10.**)

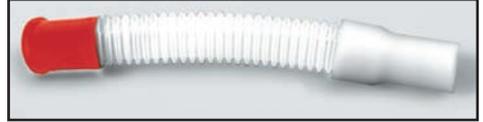


Figure 10

Remove the non-modular Resusci® Anne™* head and the connected section of corrugated tubing down to the valve. Install the Advanced 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.

Cleaning and Maintenance

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



Figure 11

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

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, hold it in a vertical position, and pull the plugs from the trachea to completely empty the system. (See 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 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.

Cleaning the Face

Normal soil can be removed from the face of the trainer with mild, soapy water. Nasco Cleaner (LF09919U) will remove stubborn stains. Simply apply Nasco Cleaner to the soiled area and wipe clean with a soft cloth or paper towel. **Note:** Do not use Nasco 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. Ball-point pens will also make indelible stains. Do not use cosmetics.

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

LF03605U Replacement Lungs

LF03606U Replacement Stomach

LF03644U Pump Spray Lubricant

LF09919U Nasco Cleaner

Other Available *Life/form*® Simulators

- LF00698U** Adult Injectable Arm (White)
- LF00855U** Male Catheterization
- 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
- LF00999U** Pediatric Injectable Head
- LF01005U** First Aid Arm
- LF01008U** Intradermal Injection Arm
- LF01012U** Heart Catheterization (TPN)
- LF01019U** Ear Examination
- LF01027U** Peritoneal Dialysis
- LF01028U** Suture Practice Arm
- LF01034U** Suture Practice Leg
- LF01036U** Spinal Injection
- LF01037U** Hemodialysis Practice Arm
- LF01038U** Episiotomy Suturing Set
- LF01042U** Suture Kit
- 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** Infant Intraosseous Infusion
- LF01121U** Advanced IV Arm
- LF01131U** Venipuncture and Injection Arm
- LF01139U** Advanced IV Hand
- LF01142U** Auscultation Trainer
- LF01143U** Testicular Exam
- LF01152U** Male & Female Catheter
- LF01155U** Advanced CPR Dog
- LF01162U** Venatech IV Trainer
- LF01174U** NG Tube & Trach Skills
- LF01184U** Venatech IM & Sub Q
- LF01193U** Special Needs Baby
- LF03000U** **CPARLENE**® Series
- LF03601U** Adult Airway Management Trainer with Stand
- LF03602U** Adult Airway Management Manikin
- LF03609U** Child Airway Management Trainer with Stand
- LF03616U** Child **CRiSis**™ Manikin
- LF03617U** Deluxe Child **CRiSis**™ Manikin with Arrhythmia Tutor
- LF03620U** PALS Update Kit
- LF03623U** Infant Airway Management Trainer with Stand
- LF03632U** Child Intraosseous Infusion/ Femoral Access Leg on a Stand
- LF03633U** Child Airway Management Trainer Torso
- LF03693U** **Basic Buddy**® CPR Manikin
- LF03699U** "Airway Larry" Airway Management Trainer
- LF03709U** Infant **CRiSis**™ Manikin
- LF03720U** **Baby Buddy**™ Infant CPR Manikin
- LF03750U** Fat Old Fred
- LF03760U** Airway Management/Cricoid Pressure Trainer
- LF03770U** Chest Tube
- LF03953U** **CRiSis**™ Manikin, Complete
- LF03955U** Deluxe **CRiSis**™ Manikin
- LF03956U** Deluxe "Plus" **CRiSis**™ Manikin
- LF03965U** Adult **CRiSis**™ Auscultation Manikin
- LF03966U** Adult **CRiSis**™ Auscultation Manikin with ECG Simulator
- LF04000U** **GERI**™/**KERI**™ Manikin Series
- LF04200U** Adult Sternal Intraosseous Infusion
- LF06001U** CPR Prompt® Adult/Child Manikin
- LF06012U** CPR Prompt® Infant Manikin
- LF06200U** CPR Prompt® Keychain Rescue Aid
- LF06204U** CPR Prompt® Rescue and Practice Aid

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