

INSTRUCTION MANUAL

**“Airway Larry”
Airway Management
Trainer Head**

LF03667



Nasco
HEALTHCARE

About the Simulator

The Life/form® “Airway Larry” Airway Management Trainer Head is a realistic simulator available for the training of intubation and other airway management skills. The airway management trainer 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, and esophagus.

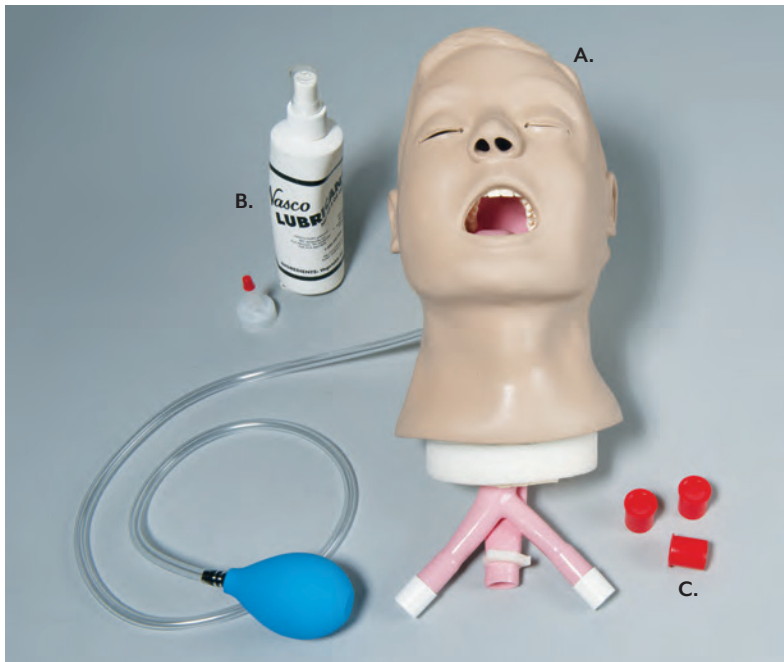
NASCO HEALTHCARE’S “Airway Larry” allows you to practice oral, digital, and nasal intubation. E.T., E.O.A., P.T.L.®, L.M.A., E.G.T.A., Combitube®, and King System insertion can all be practiced as well (please see section titled “Using the Combitube®”). Suction techniques and proper cuff inflation can 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.

Install your new “Airway Larry” Airway Management Trainer Head to update any CPARLENE® manikins and torsos, use as a stand alone trainer, or as a replacement head for any Adult CRiSis™ manikin, torso, or Airway Management Trainer with stand. With proper care, your Life/form® Airway Management Trainer will provide years of valuable service. Please review the instructions carefully for setup, cleanup , and maintenance procedures.

List of Components

- A. "Airway Larry" Airway Management Trainer Head
- B. 8-oz. Bottle of Lubricant
- C. 3 Red Caps

Actual product may vary slightly from photo. NASCO HEALTHCARE reserves the right to change product color, materials, supplies, or function as needed.



Set Up

The “Airway Larry” Airway Management Trainer Head is ready to use as a stand-alone trainer upon delivery. Simply remove it from the carton and unwrap the packaging material. Please note that lung and stomach bags are not included, but can be purchased separately. See Supplies and Replacement Parts for part numbers.

LUBRICATION

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



Figure 1



Figure 2

General Instructions For Use

A. Intubating the Airway Management Trainer

Nasco recommends the use of a 7.5-8 mm endotracheal tube for oral intubation and 7.5 cm or smaller for nasal intubation.

This simulator allows for the Sellick's Maneuver of applying cricoid pressure during intubation procedures. Ensuring the cuff is properly deflated prior to removal will prolong the useful life of your simulator. Damage caused by improper use of the simulator will not be covered under the warranty.

1. Determine the method of intubation.
2. Select the appropriate sized intubation appliance.
3. Generously lubricate the airway and appliance.
4. Intubate the manikin.
5. Ensure the cuff is properly deflated before removing the appliance.

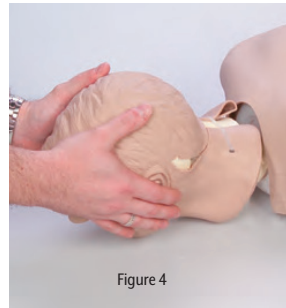
Note: Remove all appliances prior to storage.

B. Using the Combitube (not included)

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 real patient, it may be necessary to back the tube out 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) and while holding the plunger down, detach the syringe from the blue print balloon and proceed.

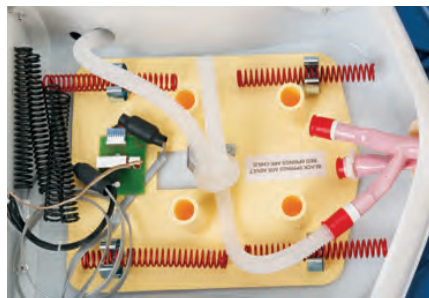
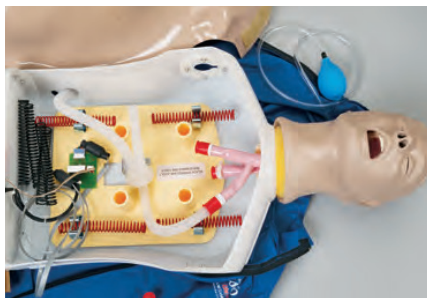
General Instructions For Use



C. Attaching the “Airway Larry” Airway Management Trainer Head to a Torso - NASCO HEALTHCARE’s Airway Management Trainer has the ability to be attached to CPARLENE®, Adult CRiSis™ Torso and Manikins, and Life/form® Airway Management Trainer Stands.

Replacing head of CPARLENE® with “Airway Larry” Airway Management Trainer Head

1. Remove the chest skin, chest plate, upper compression plate, and compression springs. **(See Figure 3.)**
Note: Caution should be used when removing the upper compression plate to avoid damage to the electronics connected in some models.
2. Disconnect the corrugated upper airway from the clear tube extending from the head of the manikin.
3. Remove the existing head by turning it face down, aligning the keyways, and pulling it free from the torso.
4. Install the “Airway Larry” Airway Management Trainer Head using the same method as removing the head. When inserted 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 4.)**



General Instructions For Use



Figure 7

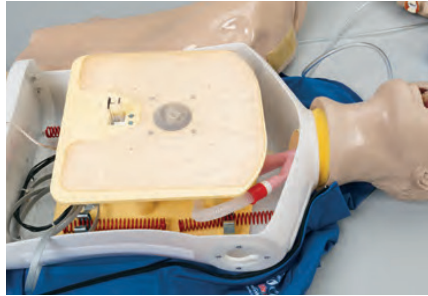


Figure 8

5. Install the CPARLENE® Airway to the “Airway Larry” Airway Management Trainer Head by first connecting the remaining upper airway (corrugated tubing system) to the left bronchus.
6. Use 2 of the supplied red caps to plug the right bronchus and esophagus. **(See Figure 5.)**
7. Replace the longer exhaust tubing portion of the lower airway through the hole on the inside of the torso. **(See Figure 6.)**
8. Replace the compression springs and upper compression plate.
9. Insert the short section of the upper airway through the hole in the upper compression plate and reattach the lung bag. **(See Figure 7.)**
10. The lung bag will lay flat on top of the upper compression plate. **(See Figure 8.)**
11. Replace the chest plate and chest skin taking care not to pull the skin too tightly across the torso, as this may inhibit chest rise during proper ventilation. **(See Figure 7, Figure 8)**

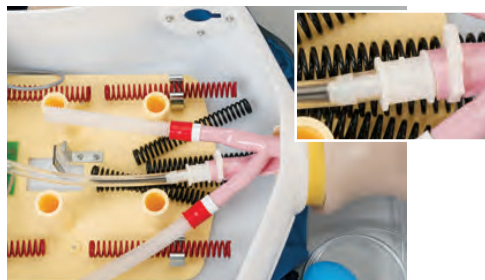


Figure 9

General Instructions For Use

D. Replacing Head of CRiSis™ Manikins with “Airway Larry” Airway Management Trainer Head

1. Remove the chest skin and chest plate. Note: Caution should be taken not to damage defibrillation electronics connected to the chest skin.
2. Disconnect the lung bags from the corrugated bronchus tubes and set aside for future use.
3. Push the bronchus tubes down through the hole in the upper compression plate.
4. Remove the upper compression plate and compression springs.
5. Remove the corrugated bronchus tubes from the airway extending from the existing head and set aside for future use.
6. Loosen the pinch clamp on the esophagus and pull the stomach tube free from the esophagus extending from the existing head and set aside for future use.
7. Remove the existing head by turning it face down, aligning the keyways, and pulling it free from the torso.
8. Install the “Airway Larry” Airway Management Trainer Head using the same method as removing the head. When inserted 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 4.)**
9. Replace the corrugated bronchus tubes. **(See Figure 9.)**
10. Replace the stomach tube into the esophagus and tighten the pinch clamp. **(See Figure 9 inset.)**
11. Replace the compression springs and upper compression plate.
12. Insert the corrugated bronchus tubes up through the hole in the upper compression plate and connect the bifurcated lung bags. **(See Figure 10.)**
13. Replace the chest plate and chest skin, taking care not to pull the skin too tightly across the torso as this may inhibit chest rise during proper ventilation.

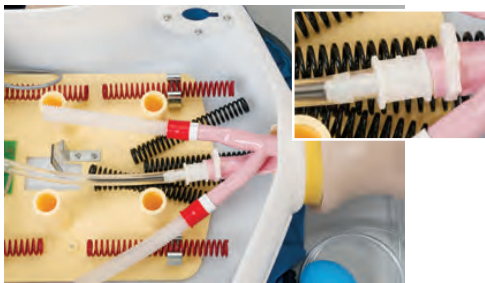


Figure 9

General Instructions For Use

E. Attaching to an Airway Management Trainer Stand

1. Remove the existing head by first removing the lung bags. Set them aside for future use
2. Loosen the pinch clamp on the esophagus and remove the stomach. **(See Figure 11.)**
3. Turn the existing head until the keyways on the neck and the stand's head ring attachment align and you are able to remove the head completely.
4. Lift the head ring attachment on the stand and slide the airway tubes of the new head through the hole aligning the keyways on the neck to the ring attachment. **(See Figure 12.)**
5. Slide the head into place and twist to misalign the keyway and return the face to its upward position.
6. Replace the lung bags and stomach bag, tightening the pinch clamp around the esophagus to secure the stomach bag. **(See Figure 13.)**



Figure 10



Figure 11



Figure 12



Figure 13

Care and Maintenance

A. General 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 Nasco Cleaner (LF09919U). Simply apply the Nasco 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.

B. Cleaning the Airway Management Trainer Head

1. Remove the head from the torso or stand using the same methods previously described. Also remove the lungs and stomach.
2. Take the trainer to an area with a sink and open counter space. Using the red caps supplied, plug the right and left bronchi and the esophagus.
3. Stabilize the head on the counter face-up (towels work well for this) with plugged tubes hanging over the sink. *(See Figure 14.)*
4. Carefully pour warm soapy water (a mild dish soap works best) into the mouth until the water level reaches halfway up the tongue.
5. Tilt the head back and bring the neck up 3" off the countertop.
6. Continue filling until the water level covers the tongue. 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.
7. When done, pull the red cap from the esophagus and drain the water into the sink.
8. Now pick the head up, hold it in a vertical position, and pull the caps from the bronchi to completely empty the system. *(See Figure 15.)*
9. Rinse the airway, following the same procedure used to clean, with warm tap water only. Repeat this process until all the soap has been flushed from the system.

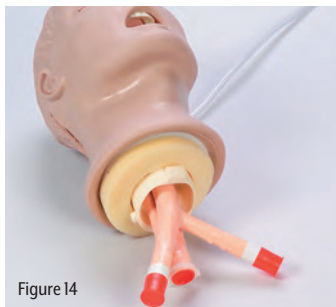


Figure 14

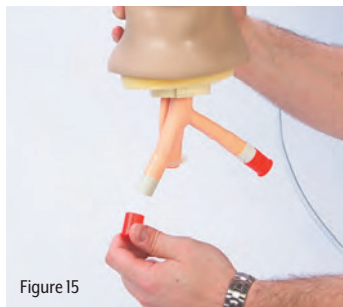


Figure 15

Care and Maintenance

C. Disinfecting the Airway

To disinfect, repeat the standard cleaning procedure with a bleach solution, as specified by the Centers for Disease Control.

1. 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.
2. Once completely filled with the bleach solution, allow the head to sit for at least 10 minutes.
3. Drain as previously described and repeat the rinsing process to flush out all of the bleach solution. Set the head aside and allow it to air dry completely prior to next use or storage.

CAUTIONS

- Do not place simulator in contact with any printed paper or plastic. The ink will transfer and cause an indelible stain. Similar inks, such as ballpoint pen, will also cause an indelible stain.
- Do not use Nasco Cleaner (LF09919U) around the nose or mouth of the simulator. The cleaner may be toxic if ingested.
- Properly lubricate the Airway Management head and intubation appliances.
- Use only Nasco Pump Spray Lubricant (LF03644U) with this simulator. Other lubricants, such as silicone oil, may cause damage to the airway of the simulator.
- Ensure intubation appliances are used accordingly. Improper use of intubation appliances could damage the airway of the simulator. Damage to the airway will require the product to be returned to Nasco for repair.

Supplies/Replacement Parts

LF03605	Replacement Lungs
LF03606	Replacement Stomach
LF03644	Pump Spray Lubricant
LF09919	Nasco Cleaner

Other Available Simulators

LF03000	CPARLENE® Series	LF03720	Baby Buddy® Infant CPR Manikin
LF03601	Adult Airway Management Trainer with Stand	LF03750	Bariatric CPR Manikin
LF03602	Adult Airway Management Manikin	LF03760	Airway Management/Cricoid Pressure Trainer
LF03609	Child Airway Management Trainer with Stand	LF03770	Chest Tube
LF03616	Child CRiSis™ Manikin	LF03953	CRiSis™ Manikin, Complete
LF03617	Deluxe Child CRiSis™ Manikin with Arrhythmia Tutor	LF03955	Deluxe CRiSis™ Manikin
LF03620	PALS Update Kit	LF03956	Deluxe “Plus” CRiSis™ Manikin
LF03623	Infant Airway Management Trainer with Stand	LF03965	Adult CRiSis™ Auscultation Manikin
LF03632	Child Intraosseous Infusion/ Femoral Access Leg on a Stand	LF03966	Adult CRiSis™ Auscultation Manikin with ECG Simulator
LF03633	Child Airway Management Trainer Torso	LF04200	Adult Sternal Intraosseous Infusion
LF03693	Basic Buddy® CPR Manikin	LF06001	CPR Prompt® Adult/Child Manikin
LF03699	“Airway Larry” Airway Management Trainer	LF06012	CPR Prompt® Infant Manikin
LF03709	Infant CRiSis™ Manikin	LF06200	CPR Prompt® Keychain Rescue Aid
		LF06204	CPR Prompt® Rescue and Practice Aid



LF03214



LF03840



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