

Dedicated to Delivery  
*Nasco* **Life/form**®

# Airway Management Trainer with Stand LF03601U Instruction Manual



ISO 9001 and  
ISO 13485

*Nasco* Plastics  
ISO 9001 and ISO 13485

Products are manufactured using a quality management system certified as being in conformity with ISO 9001 and ISO 13485.

**CAUTION: PRODUCT CONTAINS DRY  
NATURAL RUBBER!**

***Life/form*® Products by Nasco**

***Life/form*®**  
**5**  
**Year**  
**Warranty**



## About the Simulator

The **Life/form**® Airway Management Trainer with Stand 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's Airway Management Trainer 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. 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.

Use your new Airway Management Trainer with Stand as a stand-alone trainer, or as a replacement head for any **CPARLENE**® or Adult **CRiSis**™ full body manikin or torso. 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

- Airway Management Trainer
- 8-oz. Bottle of Lubricant
- Left and Right Simulated Lungs
- Simulated Stomach
- 3 Red Caps
- Hard Carry Case

## Setup

The 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.



Figure 1



Figure 2

## Lubrication

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

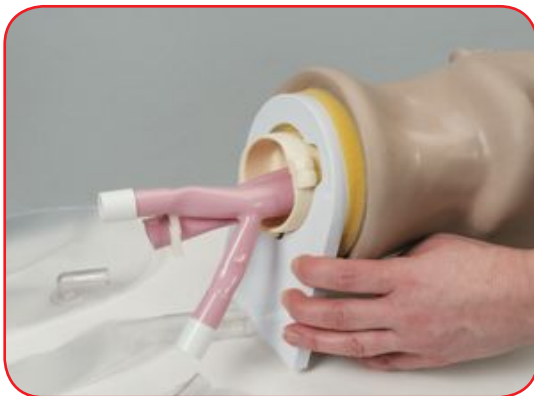
## General Instructions for Use

### A. Intubating the Airway Management Trainer

Nasco recommends the use of a 7.5-8 mm endotracheal tube for oral intubation and 7.5 mm 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. Visualize chest rise or stomach inflation.
6. Ensure the cuff is properly deflated before removing the appliance.

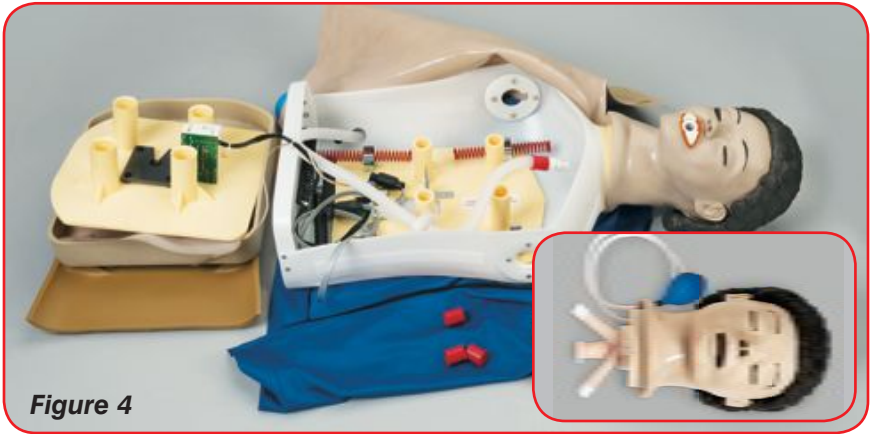
**Note:** Remove all appliances prior to storage.



**Figure 3**

### B. Removing the Airway Management Trainer from the 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.
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. **(See figure 3.)**



**Figure 4**



**Figure 5**

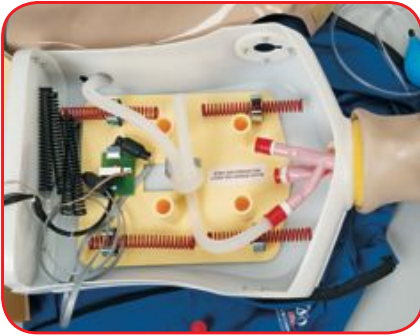
### **C. Attaching the Airway Management Trainer Head to a Torso**

Nasco's Airway Management Trainer has the ability to be attached to **CPARLENE**® and Adult **CRiSis**™ Torsos and Manikins.

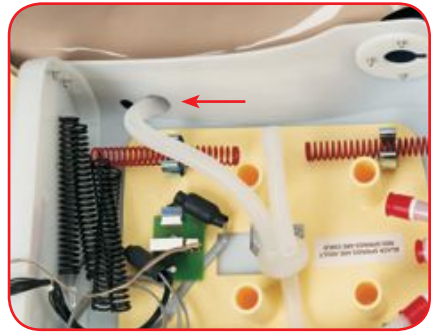
Replacing Head of **CPARLENE**® with Airway Management Trainer Head

1. Remove the chest skin, chest plate, upper compression plate, and compression springs from your **CPARLENE**® manikin or torso. **(See Figure 4.)**

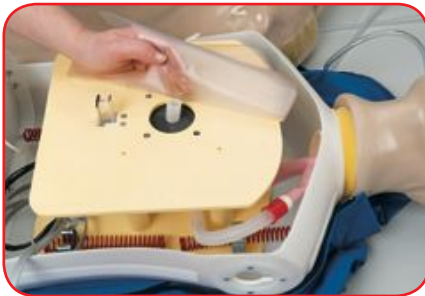
**Note:** Caution should be used when removing the upper compression plate to avoid damage to the electronics connected in some models.
2. Disconnect the corrugated upper airway from the clear tube extending from the head of the manikin.
3. Remove the existing head by rotating 180°, aligning the keyways, and pulling it free from the torso. **(See Figure 5.)**
4. Install the 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.



**Figure 6**



**Figure 7**

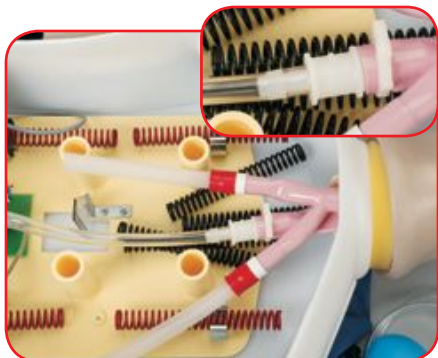


**Figure 8**



**Figure 9**

5. Connect the **CPARLENE**<sup>®</sup> Airway to the Airway Management Trainer Head by first connecting the remaining upper airway (corrugated tubing system) to the left bronchus.
6. Use two of the supplied red caps to plug the right bronchus and esophagus. **(See Figure 6.)**
7. Replace the longer exhaust tubing portion of the lower airway through the hole on the inside of the torso. **(See Figure 7.)**
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 8.)**
10. The lung bag will lay flat on top of the upper compression plate. **(See figure 9.)**
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.



**Figure 10**



**Figure 11**

Replacing Head of **CRiSis™** Manikins with Airway Management Trainer Head.

1. Remove the chest skin and chest plate from your Adult **CRiSis™** manikin or torso.  
**Note:** Caution should be taken not to damage electronics during disassembly.
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 180°, aligning the keyways, and pulling it free from the torso.
8. Install the Airway Management Trainer Head by using the same method used to remove the head, only in reverse. 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 10.)**
10. Replace the stomach tube into the esophagus and tighten the pinch clamp. **(See Figure 10 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 each lung bag. **(See Figure 11.)**
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.

## 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.



Figure 12

### 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. (**See figure 12.**)
3. Stabilize the head on the counter face-up (towels work well for this) with plugged tubes hanging over the sink.
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 13.)
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.

### 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 and Replacement Parts for the Airway Management Trainer**

**LF03605U** Replacement Lungs

**LF03606U** Replacement Stomach

**LF03644U** Pump Spray Lubricant

**LF03681U** Hard Carry Case for *Life/form*® Airway Trainers with Stand

**LF03737U** Mounting Kit for Adult Airway Trainer

**LF09919U** Nasco Cleaner

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

## Other Available *Life/form*® Simulators

- LF03609U** Child Airway Management Trainer with Stand
- LF03616U** Child *CRiSis*™ Manikin
- LF03617U** Deluxe Child *CRiSis*™ Manikin with Arrhythmia Tutor
- LF03623U** Infant Airway Management Trainer with Stand
- LF03709U** Infant *CRiSis*™ Manikin
- 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



*Nasco* Fort Atkinson

901 Janesville Avenue, P.O. Box 901  
Fort Atkinson, Wisconsin 53538-0901  
1.800.558.9595

eNasco.com • E-mail: [lifeform@eNasco.com](mailto:lifeform@eNasco.com)

COPYRIGHT © NASCO 1998 PRINTED IN U.S.A. NP215-92/RV 6-15