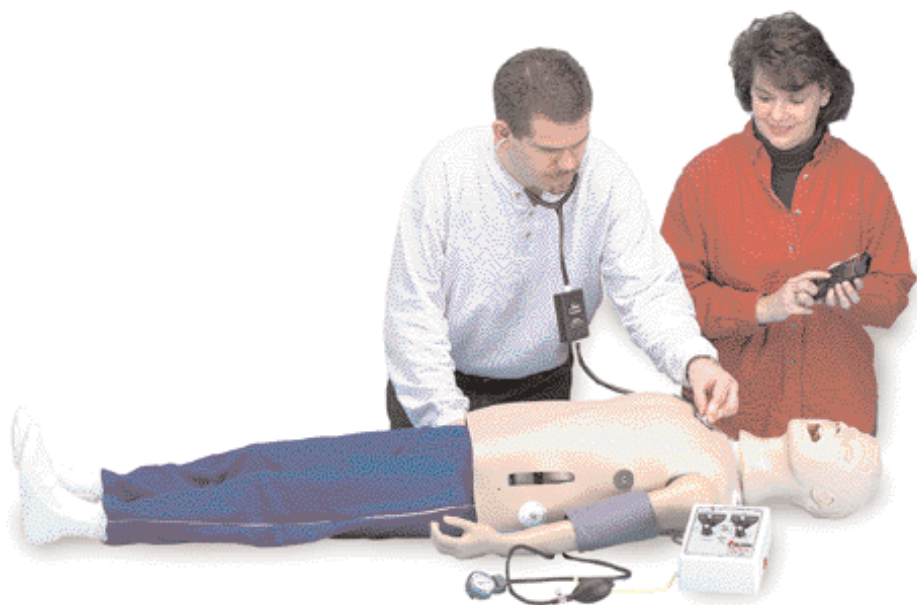


Nasco
Life/form®

CRiSiS™ MANIKIN
AUSCULTATION UPDATE PACKAGE
LF03967U
INSTRUCTION MANUAL



Life/form® Products by NASCO



The *CRiSis™* Manikin Auscultation Update Package allows you to create a manikin to suit your changing needs. This update package is compatible with all versions of *CRiSis™* manikins.

This manual will guide you in setting up, using, and maintaining each of the components.

By reading and following all instructions carefully and completely, you can be sure your *CRiSis™* 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 REN Cleaner (W09919U). Simply apply the REN Cleaner to the soiled area and wipe clean with a soft cloth.

List of Components:

- Auscultation Chest
- Smart Scope™
- Remote Control

To convert your *CRiSis™* manikin into an Auscultation *CRiSis™* manikin using the update package:



Figure 1

1. Remove the arms from the old manikin by rotating the arms to an upward position so that the indentation and the slot on the body match. Pull the arms from the body and insert the arms into the new manikin (Fig. 1).
2. Remove the Defibrillation Chest Skin, lungs and upper compression plate from the old manikin (Fig. 2).

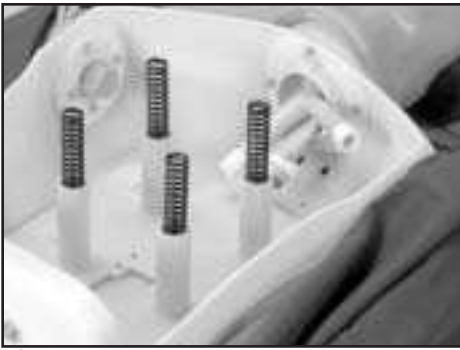


Figure 2

Note: If your manikin has CPR electronics:

- A. Unplug the wire coming from the reader mounted to the upper compression plate.

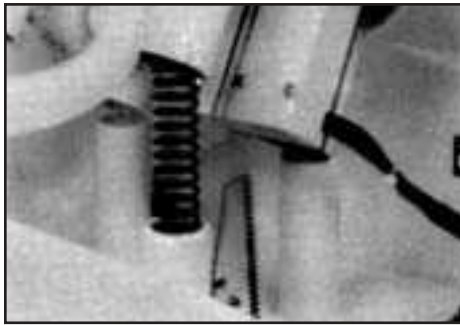


Figure 3

- B. Remove the plastic barcoded slide from the lower compression plate (Fig. 3).

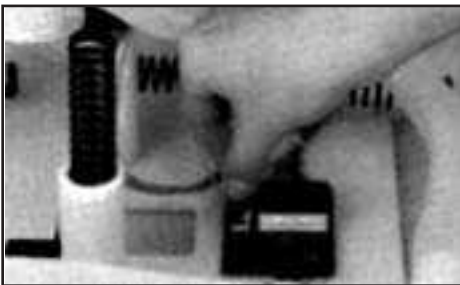


Figure 3

- C. Transfer the CPR electronic connection board and wire to the new manikin (Fig. 4)

- D. After transferring the CPR electronics to the new manikin, check the alignment of the lower slide and the upper reader groove to ensure proper readings.



Figure 5

3. Disconnect the tracheal airway in the old manikin by disconnecting the tracheal airway from the lower airway/lung system (Fig. 5).



Figure 6

4. Rotate the head so the face is backward, match the indentation with the slots in the body and pull the head from the body. Transfer the head to the new manikin (Fig. 6).

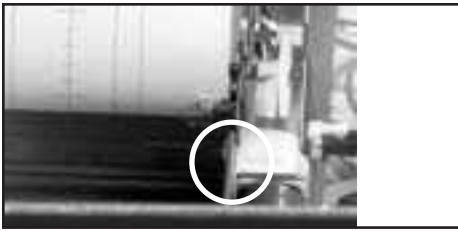


Figure 7

5. Remove the legs, load box and load box bracket from the old manikin by removing the wing nuts. Transfer these items to the new manikin (Fig. 7).
6. Remove the upper compression plate from the new manikin.



Figure 8

7. Remove the springs and the lower compression plate from the old manikin. Transfer to the new manikin (Fig. 8).
8. Replace the compression plate in the new manikin.



Figure 9

9. Position the lungs which you removed from the old manikin on top of the compression plate in the new manikin (Fig. 9).



Figure 10

10. Attach the tracheal airway to the lower airway/lung system (Fig. 10).
11. Place the new auscultation chest on top of the upper compression plate on the new manikin.



Figure 11

12. Position the defibrillation chest skin on the new manikin and reattach using the velcro straps (Fig. 11).

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
LF01053U Cross-Sectional Anatomy, Torso, Head
LF01054U Cross-Sectional Anatomy, Head
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
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
LF04001U *GERi*™ Nursing Manikin
LF04020U *KERi*™ Nursing Manikin
LF04021U *KERi*™ Basic Manikin
LF04022U *KERi*™ Advanced Manikin
LF04030U *GERi*™ Advanced Manikin
LF04040U *GERi*™ Basic Manikin

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Limited Warranty

NASCO warrants to the purchasers of *CRiSis™* products that they will be free from defects in material and workmanship for a period of three years from the date of purchase. NASCO will repair any defect reported within three years of the date of purchase at no charge. Products found to be defective may be returned to the authorized NASCO dealer from whom the item was purchased, or returned directly to NASCO. NASCO will be liable under this limited warranty only if *CRiSis™* products have been serviced properly as directed in the operating manual.

NASCO will not be responsible for damage caused by unauthorized repairs or modifications that have been made, or if the product has been damaged through misuse, accident, or abuse. This warranty does not cover wear and tear or expendables such as batteries, lubricant, and replacement lungs. There are no other expressed or implied warranties of merchantability, fitness of purpose, or otherwise on "Airway Larry" products, parts, and accessories.

About the Auscultation Simulator:

The *Life/form*® Auscultation Trainer Simulator duplicates heart and lung conditions selected by the instructor by wireless remote control. The student must palpate to identify the correct auscultation sites and will hear different heart and lung sounds as the SmartScope™ is moved from site to site. The simulator duplicates human conditions as closely as modern plastics and electronic technology allows — it's almost the real thing. Care and treatment should be the same as with a patient.

The simulator has six heart sites and five lung sound sites on the anterior surface and two midaxillary sites. The remote control can select from 12 different heart conditions, as well as 16 lung conditions. The instructor can select any condition then switch to another condition easily so the student can compare sounds and make a diagnosis.

The remote control does not have to be pointed directly at the manikin or stethoscope to operate. One remote control will operate multiple sets of SmartScopes™ and manikins simultaneously. Great for group instruction. The range of the remote control is up to 100 feet.

General Instructions for Use

To begin using the Auscultation Trainer, press the red power button. This turns on the remote control and sends a signal to activate the stethoscope as well. After the unit is activated, the display will be in the "status" mode, displaying the current menu settings for the heart and lung conditions.

To select a new condition, press either the heart or lung button. This will put the display into the menu mode. The user can select a condition by either using the number buttons, or by viewing the conditions in sequence using the scroll button. The remote control can be programmed to these heart conditions:

- 01 Normal
- 02 Aortic regurgitation
- 03 Pulmonary stenosis
- 04 Mitral stenosis
- 05 Holosystolic
- 06 Mid-systolic
- 07 S3 Gallop
- 08 S4 Gallop
- 09 Systolic click
- 10 Atrial septal defect
- 11 PDA
- 12 VSD

The remote control can be programmed to these lung conditions:

- 01 Normal Lung
- 02 Normal Vesicular
- 03 Wheezes
- 04 Mono wheeze

- 05 Fine crackle
- 06 Coarse crackle
- 07 Ronchi crackle
- 08 Stridor
- 09 Cavernous
- 10 Bronchovesicular
- 11 Bronchial
- 12 Pulmonary edema
- 13 Infant
- 14 Friction rub
- 15 Egophony
- 16 Pectoriloquy

Consult the enclosed laminated card for lung and heart sound site locations.

To listen to the selected sounds, place the earpieces in ears angled in a forward position. Place the diaphragm of the SmartScope™ over one of the appropriate sites on the manikin (see laminated card).

As an alternative, an amplified speaker (SB20146U) can be used allowing an entire classroom to hear at the same time. To connect the speaker, plug the speaker cord into the speaker jack on the top of the Smart Scope™ box. When a speaker is connected to the SmartScope™, the ear pieces will not work. Place the diaphragm of the SmartScope™ over the appropriate sites on the manikin.

Note: The remote has a battery saver that shuts the unit down after 8 minutes if the remote is left on the same setting. To prevent it from shutting down, select a different heart or lung sound within the 8 minute period of time.

Troubleshooting:

- Make sure batteries in both the remote and the SmartScope™ are fully charged and properly installed
- The remote has a battery saver that shuts the unit down after 8 minutes if the remote is left on the same setting. To prevent it from shutting down, select a different heart or lung sound within the 8 minute period of time.
- Correct placement of the SmartScope™ is required to hear the sounds. Moving the SmartScope™ slowly across the area will help locate the sensor in the torso so that the sounds can be heard.
- If you are sure you have the SmartScope™ in proper position and you still cannot hear any sounds, restart the unit by turning the power off and on, and selecting a different heart or lung sound.

Available Supplies

- LF01144U Additional SmartScope™
- LF01145U Additional Auscultation Manikin Torso
- LF01148U Replacement Remote Control
- SB20146U Amplified Speaker