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*Nasco*  
**Life/form**®



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# Child Defibrillation Chest Skin LF03611U Instruction Manual

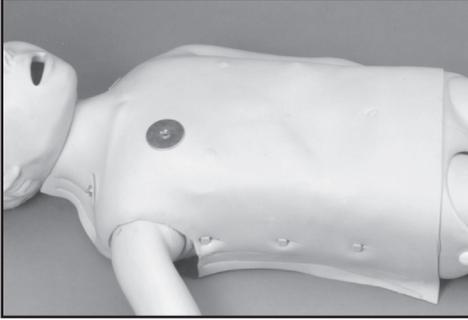
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**Life/form**® Products by Nasco

## About the Simulator

The **Life/form**® Child Defibrillation Chest Skin has been designed to be placed on the Resusci® Junior\* brand of CPR manikin to enable you, the customer, to safely practice defibrillation. (See **figure 1.**)



**Figure 1**

The Child Defibrillation Chest Skin has been designed to absorb a maximum of 360 joules of energy\*\*. Although capable of absorbing 360 joules, we do recommend that the smallest energy level possible be used while training with the skin.

The Child Defibrillation Chest Skin will enable you to practice defibrillation using manual, semiautomatic, and automatic external defibrillators (AEDs). When using any one of these types of defibrillators in training, always follow the recommended operating procedures for that particular defibrillator. Our chest skin has been specially designed to accommodate the Resusci® Junior\* CPR manikin.

## List of Components

(See **figure 2.**)

- Defibrillation Chest Skin with Load Box and Four Lead Snap Cable Connector
- Bottle of Nasco Cleaner
- Load Box Mounting Plate
- 2 Machine Screws



**Figure 2**

## Things You Will Need

Phillips Screwdriver

**\*\*Note:** 360 joules is the maximum energy level that Nasco recommends administering to the defibrillation chest skin. Energy levels in excess of 360 joules may cause irreparable damage to the chest skin, circuitry, and patient simulator being used – thus voiding Nasco's warranty and endangering your equipment. Nasco assumes no liability for damage or injury that may be caused by the use and/or misuse of this equipment. All normal safety precautions for defibrillation training should be followed and energy levels should be minimized. Nasco did not design nor intend this defibrillation chest skin to be used as anything other than a training apparatus for defibrillation.

## Set Up

The Child Defibrillation Chest Skin has been designed to replace the standard outer chest skin on the Resusci® Junior\* CPR manikin, thus enabling you to safely defibrillate.

Please follow the set-up procedures for placing the Child Defibrillation Chest Skin on the manikin.

\*RESUSCI® JUNIOR IS A TRADEMARK OF LAERDAL MEDICAL CORPORATION.

## Removing the Regular Resusci® Junior\* Chest Skin

In order to install our Child Defibrillation Chest Skin, you must first remove the outer skin that is currently in place on your CPR manikin.

1. Unhook the chest skin from the sides and fold it up over the head.
2. Lift out the lung plate.
3. Remove the lung bag system from the Resusci® Junior\* body.

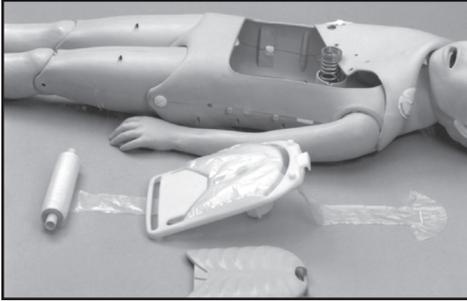


Figure 3

4. Lift out the chest plate and remove the roll of bags. (See figure 3.)

**Note:** The lung bag roll cannot be reinstalled when the load box is in place. The lung bags will have to be set up one at a time.

5. Detach the rubber tether strap from the pin at the base of the neck.



Figure 4

6. Turn the body over and remove the four screws that hold the two halves of the upper body together. These are located across the back of the shoulders. (See figure 4.)

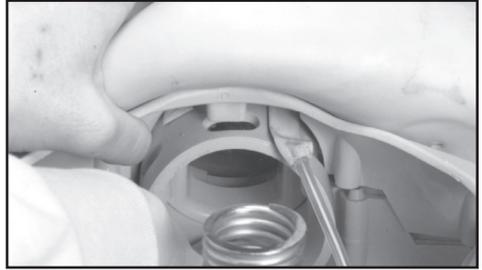


Figure 5

7. Lift the top half of the body slightly away from the bottom, releasing the tab that holds the neck in place. (See figure 5.)
8. Remove the head and neck from the body and remove the chest skin.



Figure 6

## Installing the Load Box (See figure 6.)

The next step is to install the load box for the defibrillation chest skin. The load box is the box attached to the skin via one large cable and a smaller cable with four lead snaps attached.

This is the device that will absorb the energy being administered to the chest skin during defibrillation.

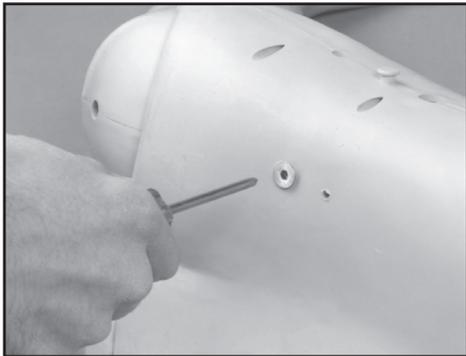
**Note: It is very important that this load box is installed properly!**

1. Locate the load box mounting plate and the two mounting screws supplied.



**Figure 7**

2. Place the load box mounting plate in the bottom of the Resusci® Junior\*, aligning the predrilled holes in the body with the tapped holes in the load box mounting plate. (See **figure 7.**)



**Figure 8**

3. Now screw the plate down securely from the back side. (See **figure 8.**)
4. Locate the screw protruding from the newly installed mounting plate. Center the load box over the plate and tighten it down snugly using the load box screw knob. (See **figure 9.**)

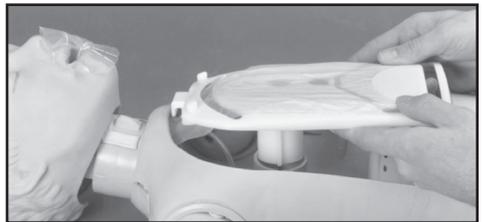


**Figure 9**

## **Operating Instructions Replacing the Skin**

Now that you have secured the load box, uncoil the smaller cable that has the four lead snaps attached. These four lead snaps will eventually be attached to your patient simulator cable. (It can also be attached to an Arrhythmia Tutor, which is available from Nasco through the Health Care Educational Materials Catalog.) For now, simply uncoil the cable and allow it to hang freely from the manikin.

To reinstall the head, simply reverse the procedure used to remove it. Make sure to tighten the four body screws.



**Figure 10**

Next, replace the chest compression plate that was removed earlier and fit it with a single lung bag. Thread the bag through the chest plate and up through the head using the threading tool that came with your Resusci® Junior\*. (See **figure 10.**)

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Now place the lung plate over the lung bag. Lay the Child Defibrillation Chest Skin on top of the chest of the manikin.

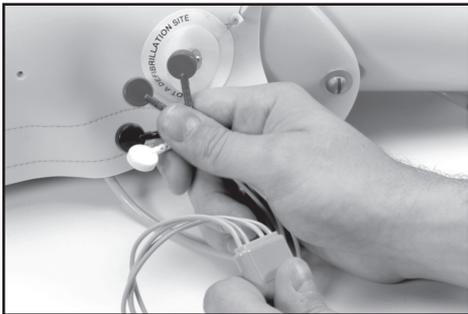


**Figure 11**

The new Defibrillation Chest Skin has holes at both edges for hooking into place on the Resusci® Junior\* manikin. (See figure 11.)

### **Connecting Your Patient Simulator (or Arrhythmia Tutor, which is available separately)**

Now that the chest skin and the load box are in place, you will want to connect the four lead snap cable to your patient simulator (or Arrhythmia Tutor).



**Figure 12**

Nasco has designed the Child **CRiSis**™ System to be compatible with a variety of patient simulators. This is possible via the standard four lead snap cable. (See figure 12.) If your patient simulator has only two output posts, the red and black leads must be connected to the patient simulator.

If you want to connect the manikin to the simulator that came with your defibrillator, it is necessary to purchase the corresponding adapters from Nasco separately if the patient simulator doesn't have the standard snap connectors. (Please see accessories at the end of this manual.)

Once your manikin is connected to your patient simulator, you will be able to pick up the ECG waves either through the monitor hook-ups on the skin or through the two disks attached to the skin on the defibrillation sites.

These disks will enable you to pick up the ECG wave using either the "Quick Look" paddle option or directly through gel pads, just like on a real patient.

It is possible to use AED gel pads with the cable connectors built into the gel – the same ones you use on patients. In an effort to help you save money, Nasco does offer a set of training buttons that will correspond to your particular AED unit. These buttons are sold separately and can be used over and over again. They come as a set with the patient simulator adapters. (See accessories at the end of this manual.)

### **Troubleshooting**

**Problem** ECG wave is not being picked up from the manikin.

#### **Solution**

1. Check your connections on the patient simulator; one or more may be disconnected.
2. Check to make sure your patient simulator is plugged in and working properly.

**Problem** ECG wave is inverted.

#### **Solution**

Recheck the position of the red and black lead snaps on the patient simulator.

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**Note:** If the defibrillation chest skin is not functioning or wiring comes undone, please contact us to repair or replace the unit. Failure to do so, or unauthorized repair, may void the warranty or cause further harm or damage to you or your equipment.

## **Accessories**

**LF03656U** Physio Control  
Defibrillation Pad and  
Patient Simulator  
Adapter Package for  
LifePak 10 and Lifepak 20

**LF03657U** Marquette Electronics  
Defibrillation Pad and  
Patient Simulator Adapter  
Package

**LF03658U** SpaceLabs/Laerdal/  
Heartstart/First Medic  
Defibrillation Pad  
and Patient Simulator  
Adapter Package

**LF03961U** Zoll Training Cables with  
Adapters

**LF03962U** Physio Control Training  
Cables with Adapters  
for LifePak 12

If you need help selecting the training pad adapters that correspond to your AED unit, please feel free to call us at 1-800-558-9595 for assistance.

## 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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