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
LF01037U Hemodialysis Arm
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
LF01121U Advanced IV Arm
LF01139U Advanced IV Hand
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
LF03965U Deluxe "Plus" ***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
LF06001U **CPR Prompt™** Adult/Child Manikin
LF06012U **CPR Prompt™** Infant Manikin
LF06200U **CPR Prompt™** Keychain Rescue Aid
LF06200U **CPR Prompt™** Rescue and Practice Aid

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Nasco
Life/form®

CPARLENE®

INSTRUCTION MANUAL



WARNING: Product contains dry natural rubber.

Life/form® Products by NASCO

LIMITED WARRANTY

NASCO warrants to the purchasers of **CPARLENE®** 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 36 months of the date of purchase at no charge. Products found to be defective may be returned to the authorized NASCO dealer from whom they were purchased, or returned directly to NASCO. NASCO will be liable under this limited warranty only if **CPARLENE®** 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, light bulbs, and recording paper. There are no other expressed or implied warranties of merchantability, fitness of purpose, or otherwise on **CPARLENE®** products, parts, and accessories.

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REPLACEMENT PARTS

Part No.	Description
LF03120U	Sanitary face masks 5 qty.
LF03121U	Sanitary face masks 25 qty.
LF03122U	Disposable tracheal aiways 10 qty.
LF03135U	Eye (dilated)
LF03136U	Eye (constricted)
LF03140U	Sanitary head
LF03154U	Foam neck ring 4 qty.
LF03180U	Complete pulse simulation kit
LF03190U	Torso shell
LF03191U	Outer chest skin
LF03201U	Foam shoulder rings (2)
LF03203U	Left arm
LF03213U	Right arm
LF03223U	Lower body (clothed)
LF03282U	Lung bags with fittings 10 qty.
LF03283U	Lung bags with fittings 100 qty.
LF03299U	Adapter for disposable lower airway
LF03300U	Disposable lower airway 10 qty.
LF03340U	Complete compression unit
LF03341U	Inner chest structure with swith block
LF03342U	Compression switch
LF03343U	Lung cover plate
LF03344U	Compression set
LF03345U	Adult spring set of 4
LF03346U	Child spring set of 4
LF03350U	Spring holders set of 4
LF03460U	Batteries qty. 6
LF03451U	Thermal Printer paper (6)
LF03370U	Top Sensing Assembly
LF03380U	Lower Sensing Assembly
LF03465U	Full manikin hard case
LF03466U	Torso manikin hard case
LF03478U	Airway locking clamp
LF03479U	Syringe with tubing
LF03484U	Brushes/cotton swabs
LF03485U	Gloves (2 pair)
LF03486U	REN Cleaner
LF03520U	Short sleeve jacket
LF03525U	Long sleeve jacket
LF03530U	Pants
LF03716U	Basic torso, white
LF03816U	Basic torso, black
LF03715U	Torso with electronic connections, white
LF03815U	Torso with electronic connections, black
LF03714U	Torso with light controller, white
LF03814U	Torso with light controller, black
LF03943U	Basic full manikin
LF03713U	Full manikin with electonics, white
LF03813U	Full manikin with electonics, black
LF03712U	Full manikin with memory unit, white
LF03812U	Full manikin with memory unit, black
LF03711U	Full manikin with memory unit and printer, white
LF03811U	Full manikin with memory unit and printer, black
LF03401U	Electronic monitoring, memory, and printer unit
LF03402U	Electronic monitoring and memory unit
LF03403U	Light controller
LF03430U	Printer upgrade for monitoring and memory unit
LF03550U	**CPARLENE®** Manual

CPARLENE® REPLACEMENT PARTS



IDENTIFYING YOUR MODEL

Pages 2-8 display the **CPARLENE®** family of simulators. Identify your model and refer to the Operation Section pertaining to your model.

This guide has been carefully written to guide you in the operation of your unit. Depending on your model, please read the procedure(s) indicated. All models follow procedure A. Check your model description to see if procedures B, C, or D, pertain to your model.



BASIC TORSO
LF03716U - White
LF03816U - Black

- Adult CPR trainer
- Constricted and dilated pupils
- Obstructed airway capabilities
- Carotid pulse
- ***Life/form®*** realism

FOLLOW PROCEDURE A



TORSO WITH ELECTRONIC CONNECTIONS
LF03715 – White
LF03815 – Black

- Adult/child modes
- ***Life/form***® realism
- Durable soft carrying case with wheels
- Constricted and dilated pupils
- Obstructed airway capabilities
- Carotid pulse
- Non-rebreathing airway system
- Royal blue short sleeve jacket
- Ready for use with external electronic monitors

FOLLOW PROCEDURE A

NOTES

Paper Installation

1. Remove the cover. (See battery installation under section C.)
2. Remove platen from bracket by gently pulling up on one end (***Figure 8***).



Figure 8

3. Remove the plastic paper holder rod from the paper holder bracket by applying a slight outward pressure to the bracket until the rod can be removed. Care should be taken not to bend too far or the bracket may become deformed and not hold paper securely.



Figure 9

4. Insert plastic rod through the center of a new paper roll (***Figure 9***) and re-install into bracket so that the paper feeds off the bottom of the roll pointing towards the front of the printer (***Figure 10***).



Figure 10



Figure 11

5. While keeping paper taut, position the paper within the guides of the printer and re-install the platen so that the gears of the platen engage with the gears of the printer (***Figure 11***). Gently insert platen in bracket until it snaps into place (***Figure 12***).



Figure 12

6. While continuing to keep paper taut, press the Paper Feed switch on the front panel until 7″ to 8″ have fed through the printer to make sure paper is properly aligned and feeding straight. Repeat step 5 if necessary.



Figure 13

7. Feed paper through paper guide in the top cover (***Figure 13***) and replace cover by aligning the slots and tabs on the unit and pushing down on the cover to snap into place.



TORSO WITH LIGHT CONTROLLER
LF03714 – White
LF03814 – Black

- Adult/child modes
- ***Life/form***® realism
- Durable soft carrying case with wheels
- Constricted and dilated pupils
- Obstructed airway capabilities
- Carotid pulse
- Non-rebreathing airway system
- Red light signals improper placement of hands
- Green light signals proper ventilation volume 0.80 liters adult/0.50 liters child
- Yellow light signals proper compression depth at 1.50-2.00 inches adult/1.00-1.50 inches child
- Royal blue short sleeve jacket
- Ready for use with external electronic monitors
- Includes 4 "C" batteries

FOLLOW PROCEDURE A AND B



BASIC FULL MANIKIN
LF03943U

- Adult CPR trainer
- Constricted and dilated pupils
- Obstructed airway capabilities
- Carotid pulse
- ***Life/form***® realism

FOLLOW PROCEDURE A

PROCEDURE D: PRINTER SETUP

Printer On

If a printout of the compression and ventilation waveforms and defibrillation is wanted, switch the printer switch to the "on" position and press the start button. The printer will print the following (this is an adult test) (***Figure 7***).

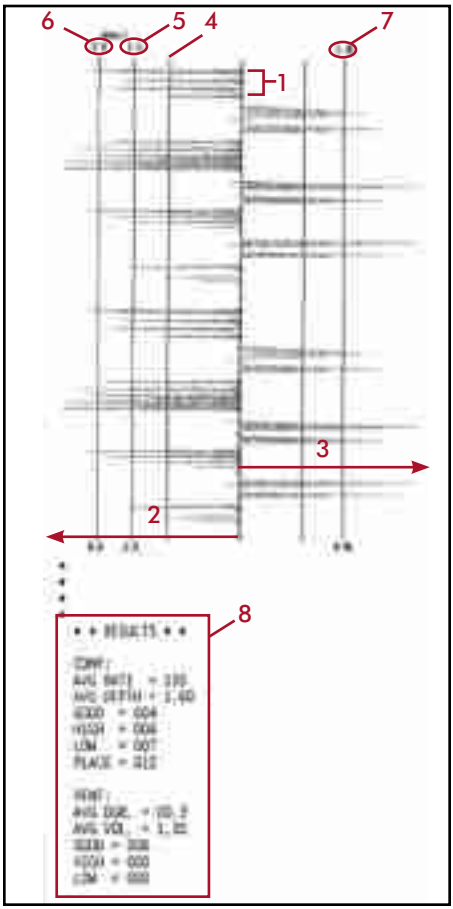


Figure 7

Reading The Printout

Ventilation/Compression Limits

The ventilation limits are labeled 0.5 L and 0.8 L.

The compression limits are labeled 1.50" and 2.00" for adult and 1.00" and 1.50" for child, depending on your selected setting.

Waveform Printout

All compression and ventilation waveforms are plotted. On completion of a test, press the stop button. The final results will be calculated and printed out as shown in Figure 7. It shows:

1. Time scale: 1/8" = 1 second.
2. Axis for compression waveforms start at the center and goes left.
3. Axis for ventilation waveforms start at the center and goes right.
4. 1.0 limit line for compressions is the low level limit for compressions when in the child setting.
5. 1.5 limit line for compressions is both the upper level limit for compressions when in the child setting and the low level limit when in the adult setting.
6. 2.0 limit line for compressions is the upper level limit for compressions when in the adult setting.
7. 500 cc line for child ventilations (0.50 liters)

   800 cc line for adult ventilations (0.80 liters)
8. Printout of final test results. These include averages for compression rate and depth; number of good, high or low compressions; hand placement; average ventilation volume and durations; and the number of good, high, or low ventilations.

TEST MODES

To begin a test, press the start button. Pressing the start button will clear all registers.

Compression Rate

In the compression rate mode, the unit will display the average rate in compressions per minute of the last five compressions. The unit will continue to update this average until you change modes or push the stop button. Upon pushing the stop button, the unit will calculate and display the average compression rate of all compressions from the start of the present cycle.

> Example: For the first compression cycle of 15 compressions, an average rate of 60 compressions per minute (CPM) was obtained. Then two ventilations were applied to the manikin. Then a second compression cycle of 15 was applied, at an average rate of 100 CPM, and then the stop button was pushed. The unit would calculate and display the overall average of 80 CPM.

Compression Depth

In the compression depth mode, the unit will display the average depth in inches of the last compression. The unit will continue this display mode until the mode is changed or the stop button is pushed. Upon pushing the stop button, the unit will calculate and display the average depth of all compressions from the start of the present cycle.

	Adult	Child
Good =	1.50 - 2.00″	1.00 - 1.50″
High =	Over 2.00″	Over 1.50″
Low =	0.00 - 1.50″	0.00 - 1.00″

Place = Compression depth of 1.0″ with improper hand placement

Ventilation Duration

In the ventilation duration mode, the unit will display the duration in seconds of the last ventilation. The unit will continue this display mode until the mode is changed or the stop button is pushed. Upon pushing the stop button, the unit will calculate and display the average duration of all ventilations from the start of the present cycle.

Ventilation Volume

In the ventilation volume mode, the unit will display the volume in liters of the last ventilation. The unit will continue this display mode until the mode is changed or the stop button is pushed. Upon pushing the stop button, the unit will calculate and display the average volume of all ventilations from the start of the present cycle.

	Adult
Good =	Over 0.80 liters (800 cc's)
High =	Over 2.00 liters (2000 cc's)
Low =	Under 0.80 liters (80 cc's)

	Child
Good =	Over 0.50 liters (800 cc's)
High =	Over 2.00 liters (2000 cc's)
Low =	Under 0.50 liters (80 cc's)

TROUBLESHOOTING

Low battery light remains on.

1. Turn power off.
2. Replace batteries.
3. Turn power on.



FULL MANIKIN WITH ELECTRONIC CONNECTIONS
LF03713 – White
LF03813 – Black

- Adult/child modes
- ***Life/form***® realism
- Hard carrying case with wheels
- Constricted and dilated pupils
- Obstructed airway capabilities
- Carotid pulse
- Non-rebreathing airway system
- Life-sized for victim positioning
- Royal blue long sleeve jacket and pants
- Ready for use with external electronic monitors

FOLLOW PROCEDURE A



FULL MANIKIN WITH MEMORY UNIT
LF03712 – White
LF03812 – Black

- Adult/child modes
- ***Life/form***® realism
- Hard carrying case with wheels
- Constricted and dilated pupils
- Obstructed airway capabilities
- Carotid pulse
- Non-rebreathing airway system
- Red light signals improper placement of hands
- Green light signals proper ventilation volume 0.80 liters adult/0.50 liters child
- Yellow light signals proper compression depth at 1.50-2.00 inches adult/1.00-1.50 inches child
- Royal blue long sleeve jacket and pants
- Four practice modes: compression rate, compression depth, ventilation duration, ventilation volume
- Memory provides averages for each mode
- Power saver automatic shutdown after 30 seconds of inactivity
- Test mode monitors all functions
- Practice/test modes
- Bright digital display
- Low battery indicator
- Includes 6 "D" batteries

FOLLOW PROCEDURE A, B, AND C

average depth of all compressions from the start of the present cycle. Any compressions made after the stop button is pushed will start a new cycle.

Ventilation Duration

In the ventilation duration mode, the unit will display the duration in seconds of the last ventilation. The unit will continue this display mode until the mode is changed or the stop button is pushed. Upon pushing the stop button, the unit will calculate and display the average duration of all ventilations from the start of the present cycle. Any ventilations made after the stop button is pushed will start a new cycle.

Ventilation Volume

In the ventilation volume mode, the unit will display the volume in liters of the last ventilation. The unit will continue this display mode until the mode is changed or the stop button is pushed. Upon pushing the stop button, the unit will calculate and display the average volume of all ventilations from the start of the present cycle. Any ventilations made after the stop button is pushed will start a new cycle.

Auto Mode

This unit is designed to automatically switch between compression and ventilation modes depending on which one is being applied.

Defibrillation "Defib" Mode

This unit is designed with a defib simulator. After the defib button is pressed, a light indicating so will turn on. The light will remain on for 30 seconds. While this light is on no further defibrillations can be performed. A "lightning bolt" icon will also appear on the printout at this point.

Auto Power Down

To increase battery life, the unit will automatically shut off the display and go to a standby mode if no activity is sensed for approximately 30 seconds. The display will turn on when any compression or ventilation activity is sensed. You can also reactivate the display by pressing the mode or start button.

PROCEDURE C: MEMORY UNIT SETUP

Battery Installation

Remove the cover using the key provided and inserting in the four open slots on the sides of the unit (two on each side) (***Figure 5***). Press inward while gently applying upward pressure until you hear a soft click. If the supplied key is not available, a small screwdriver can be used.



Figure 5

Batteries are included. All electronic components use "D" cell alkaline batteries. On models requiring six batteries, you may find it easier to remove or install batteries if the center two batteries are removed first and installed last.

The "Low Battery" light indicates the end of the batteries useful life. The unit will still function for several hours under normal use. A low battery condition can also be indicated by skips or unwanted feed lines in the printout.

Operation

1. Connect the controller to the manikin with the interface jack.
2. Select adult or child mode at switch.

PRACTICE MODES SESSIONS

Select one of the four modes you wish to practice by pushing the mode button until the red light corresponding to the proper mode comes on. The unit will advance the light one position each time the mode key is pushed (***Figure 6***). The unit will automatically switch between compression and ventilation modes depending on which one is being applied.



Figure 6

Compression Rate

In the compression rate mode, the unit will display the average rate in compressions per minute of the last five compressions. The unit will continue to update this average until you change modes or push the stop button. Upon pushing the stop button, the unit will calculate and display the average compression rate of all compressions from the start of the present cycle. Any compressions made after the stop button is pushed will start a new cycle.

Compression Depth

In the compression depth mode, the unit will display the average depth in inches of the last compression. The unit will continue this display mode until the mode is changed or the stop button is pushed. Upon pushing the stop button, the unit will calculate and display the



FULL MANIKIN WITH MEMORY UNIT AND PRINTER
LF03711 – White
LF03811 – Black

- Adult/child modes
- ***Life/form***® realism
- Durable soft carrying case with wheels
- Constricted and dilated pupils
- Obstructed airway capabilities
- Carotid pulse
- Non-rebreathing airway system
- Red light signals improper placement of hands
- Green light signals proper ventilation volume 0.80 liters adult/0.50 liters child
- Yellow light signals proper compression depth at 1.50-2.00 inches adult/1.00-1.50 inches child
- Royal blue long sleeve jacket and pants
- Four practice modes: compression rate, compression depth, ventilation duration, ventilation volume
- Memory provides averages for each mode
- Prints in either child or adult setting
- Plots and tabulates performance skills
- Prints out final test results
- Indicates good, high, and low results
- Power saver automatic shutdown after 30 seconds of inactivity
- Test mode monitors all functions
- Practice/test modes
- Bright digital display
- Low battery indicator
- Includes 6 “D” batteries
- Includes 3 rolls of thermal recording paper

FOLLOW PROCEDURE A, B, C, and D

PROCEDURE A: SETTING UP YOUR SIMULATOR

Your **CPARLENE®** simulator has been packed securely for safe shipment. Please follow these simple set up procedures.

Packing

1. Remove packing and shipping tape.
2. Remove skin attached with Velcro®.

Skin & Chest Plate

3. Lift chest plate and lung plate. Compression springs and trachea have been packed in the chest cavity.

Springs

4. Insert springs (black/adult, red/child) into the four plastic cylinders extending up from the lower compression plate. Some models provide storage for additional springs not in use.

Disposable Trachea

5. Tilt back **CPARLENE'S®** head to open airway. Before inserting disposable trachea, remove longer white fitting from the lower end. Insert this same end into mouth. Feed tube through head until the smaller white fitting is flush with the lips. Reinsert longer white fitting on disposable trachea at the end of neck.

Lower Airway

6. Securely attach trachea to lower airway. The airway and lung system is equipped with a non-rebreathing valve to ensure that air ventilated into the unit cannot exhaust back through the mouth.

Test

7. Test your connection by ventilating **CPARLENE®**. Lungs should inflate. If there is any difficulty encountered in ventilation the manikin, check the airway and lung connections.

Electronics (Optional)

8. Guide the electronic connection wire through the hole on either side of the manikin.

Exhaust Tube

9. The lower airway exhaust tube should be vented out the right side of the torso.
10. Replace chest plate and skin.

CPR Mask

11. We recommend the use of a CPR mask with a one-way valve when trainees do ventilations on the manikin.

TROUBLE SHOOTING

The red placement light is continuously on indicating improper hand placement.

1. Turn power off.
2. The chest plate sensor has become disconnected from the red connector in the chest cavity (***Figure 3***).



Figure 3

3. Check inside chest cavity to see if electronic bar reader assembly is in proper vertical alignment ***(Figure 4)***.



Figure 4

4. Turn power on and test.

The compression depth indicator reports only low compressions.

1. Turn power off.
2. Check alignment of lower slide and upper groove reader inside chest cavity.
3. Turn power on and test.

The ventilation volume indicator reports low or no levels.

1. Turn power off.
2. Check to see if the lung bag is properly installed. Lung bag may be blocking the ventilation reader.
3. Check to see that ventilation reader slides easily.
4. Turn power on.

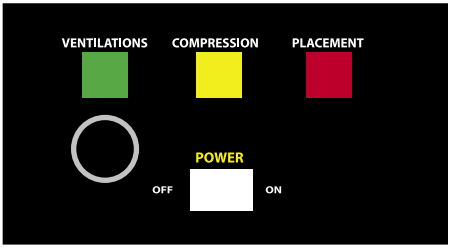
PROCEDURE B: LIGHT CONTROLLER SETUP

Remove the cover using a medium-sized phillips head screwdriver. Batteries are included (use "C" cell alkaline batteries).

Operation:

1. Connect the controller to the manikin with the interface jack.
2. Select adult or child mode at switch.

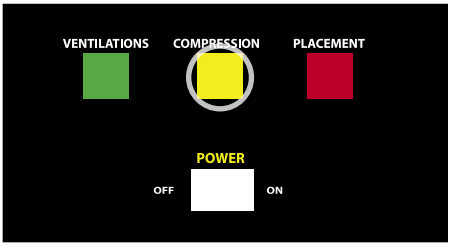
Ventilations (Green Light):



Adult Setting: The ventilation light will turn on every time the ventilation of 0.80 liters is reached. It will turn off when volume drops below this level.

Child Setting: The ventilation light will turn on every time the ventilation of 0.50 liters is reached. It will turn off when volume drops below this level.

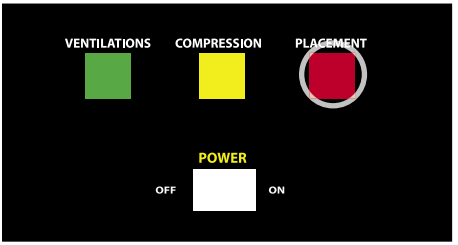
Compressions (Yellow Light):



Adult Setting: The compression light will turn on every time the compression depth of 1.50 inches is reached. It will turn off when it drops below this depth or if it exceeds 2.00 inches.

Child Setting: The compression light will turn on every time the compression depth of 1.00 inch is reached. It will turn off when it drops below this depth or if it exceeds 1.50 inches

Hand Placement (Red Light):



The placement light will turn on every time the chest is compressed 1.00 inch and the proper hand placement has not been accomplished.

MAINTENANCE

Lower Airway Replacement

Disposable lungs can be removed easily by gathering lung under the corners, sliding your hand down to connection point, and pulling upward. (***Figure 1***).



Figure 1

The entire airway system is disposable. To install new lower airway disconnect airway at connection point at trachea. Disconnect lower exhaust tubing from right side of torso. Remove compression plate, and pull adapter clamp from underside of compression plate. Push lung bag down through hole in compression plate. Connect lung bag to lower airway.

Sanitation

Regular cleaning and maintenance will reduce the chances of disease transmission and will extend the life of your manikin. All cleaning and disinfecting should follow current standards and guidelines recommended by the Centers for Disease Control, the American Heart Association, and the American Red Cross.

Clothing

CPARLENE'S® clothing can be machine washed in cold water on a gentle wash cycle. Mild detergent should be used. Tumble dry on low heat setting.

Skin Surfaces

The material used to fabricate **CPARLENE'S®** skin is washable and should be kept clean. Don't allow the skin to become severely soiled before washing. REN cleaner can be used for particularly difficult stains, and the skin areas should then be washed with soap and water after using REN cleaner. Do not use REN around the mouth and nostrils of the manikin as the residue of the cleaner could be toxic.

Plastics of the type used for **CPARLENE'S®** skin are particularly susceptible to staining by inks or cosmetics. These materials actually penetrate the skin and cannot be removed by cleaning. Avoid contact with newsprint, ballpoint pens, or any printed material.

HEAD SKIN REPLACEMENT

Removing Molded Hair:

1. Pry four plugs from front of molded hair (***Figure 2***).
2. Remove each of the four screws and washers previously covered by the plugs, using a medium phillips head screwdriver.
3. Molded hair will now lift away from head.



Figure 2

Removing Head Skin:

1. Disconnect the tracheal airway from the lower airway by pulling the tubing apart at the base of the head.
2. Rotate the head face backward, match indentation with the slot in the body, and pull toward you to remove head.
3. Unbutton the two neck straps on the back of the neck.
4. Remove the foam neck ring.
5. Remove the four screws and plastic "C" ring from the bottom of neck.

Replacing Head Skin

1. Pull the skin over the skull and adjust the jaw to proper location.
2. Replace the "C" Ring and four screws.
3. Secure the neck straps.
4. Return the foam ring to the bottom of the head.
5. Return the head to the torso.

Attaching Molded Hair:

1. Place molded hair on head and align four holes in scalp with four holes in molded hair.
2. Place four washers onto four screws.
3. Using medium phillips head screwdriver, attach four screws with washers through molded hair, scalp, and skull. (***Figure 2***) Do not over-tighten.
4. Matching the dots on the four plugs to the dots in the four molded hair recesses, press plugs into recesses and align the plugs with the direction of surrounding hair.

TROUBLESHOOTING

Occasionally slight adjustments need to be made to your **CPARLENE®** equipment to restore optimum performance. Here are four common concerns.

CONCERN	REMEDY
The lungs will not fill with air.	1. Reposition head to open airway. 2. Check airway to see if it is twisted or "kinked".
The air enters body easily, but lungs do not fill.	1. Airway tubing may be disconnected. 2. Lung bag has a leak and should be replaced.
The compressions are noisy.	1. Try repositioning or inverting the springs. Check for bent springs.
The compression strokes are short..	1. Examine cavity to see if exhaust hose or electrical wire is out of place.