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# FULL BODY CPR/TRAUMA MANIKIN INSTRUCTIONS FOR USE, CARE AND MAINTENANCE



 **Simulaids**

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The purpose of this instruction manual is to familiarize the user with the function, care and maintenance of Simulaids' Full Bodied CPR/Trauma manikin. This manual is not meant to provide instruction in Cardiopulmonary Resuscitation (CPR) or other emergency life support procedures. Please read it thoroughly before attempting to use your manikin. As a CPR manikin, it can be used for demonstrating and teaching proper CPR and first aid techniques. Features include a carotid pulse, and the resiliency and weight of a human body for realistic practice in transport-rescue and lifesaving procedures. The lifelike anatomical landmarks include: sternum, ribcage, substernal notch, and the natural resistance to chest compression. Add our trauma options to allow training in basic CPR, lifesaving rescue procedures and trauma rescue.

## **CONSTRUCTION**

The CPR/Trauma Manikin's body is suspended on a skeleton of steel and flexible cable. Some enlargement of the body segments (joints), cable connector openings or gaps between the body joints may develop with extended use without effecting the serviceability of the manikin.

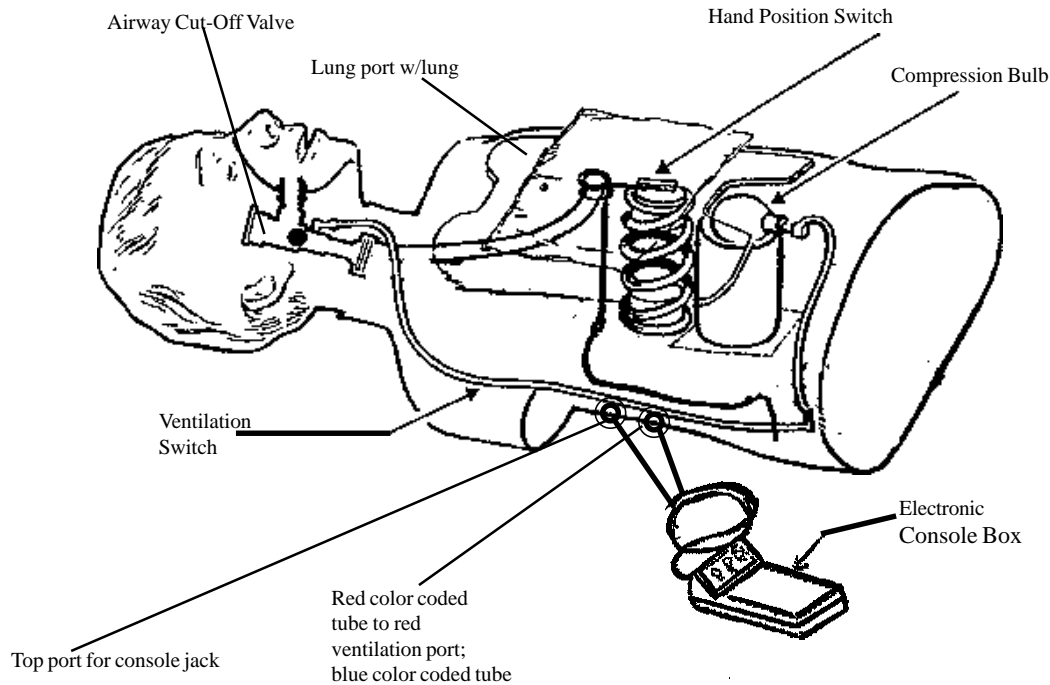
## **HOW IT OPERATES:**

To promote sanitary practice, Simulaids' Full Bodied CPR/Trauma Manikin uses a system which incorporates individual MOUTH/NOSE pieces that are provided to *each student* and inserted into the face cavity of the manikin. It is important that the MOUTH/NOSE piece be *seated securely* on the stem in the mouth of the manikin's head. (Fig. #1)



Fig. #1

# ILLUSTRATION OF INTERNAL PARTS AND HOW TO CONNECT ELECTRONIC CONSOLE BOX



## INFLATION

When the head is in a neutral position, the ball in the AIRWAY CUT-OFF VALVE is in a forward position, preventing air from entering the lungs. This replicates an obstructed airway of an unconscious person in need of emergency ventilation. When proper head tilt and chin lift are applied, the ball will roll rearward, opening the valve allowing the air to pass through the non-rebreathing valve to the lung causing a visible rise in the chest. (Fig. #2) When inflation ceases, the non-rebreathing valve closes and prevents the return of air to the mouth and nose. Electronic Model: The green ventilation bulb on the console will light when proper ventilation is performed.

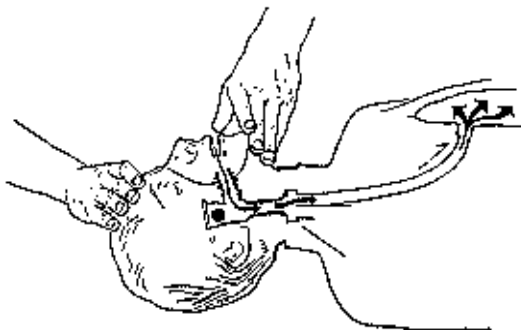


Fig. #2

## **CARDIAC COMPRESSION ELECTRONIC MODEL**

A hand position switch is attached to the sternum. Pressure on the switch activates a sensor in the console box, lighting the blue correct hand position light. When the chest is compressed, another sensor activates the white light which indicates the correct depth of compression.

## **CAROTID PULSE**

To activate the pulse, plug the connector from the squeeze bulb assembly into the portal behind the left ear. Rhythmically squeeze to simulate the pulse.

## **DISASSEMBLY**

1. Remove chest skin from torso and remove/discard the disposable lung.
2. Remove mouth/nose piece from face.
3. Remove head by pulling cotter pin from rod, then pull out the rod. Lift off head and pull airway from chest cavity. Electronic Model: remove hair cotter pin at waist and slide rod out. Lower and upper torso will now separate.

## **CLEANING & DISINFECTING**

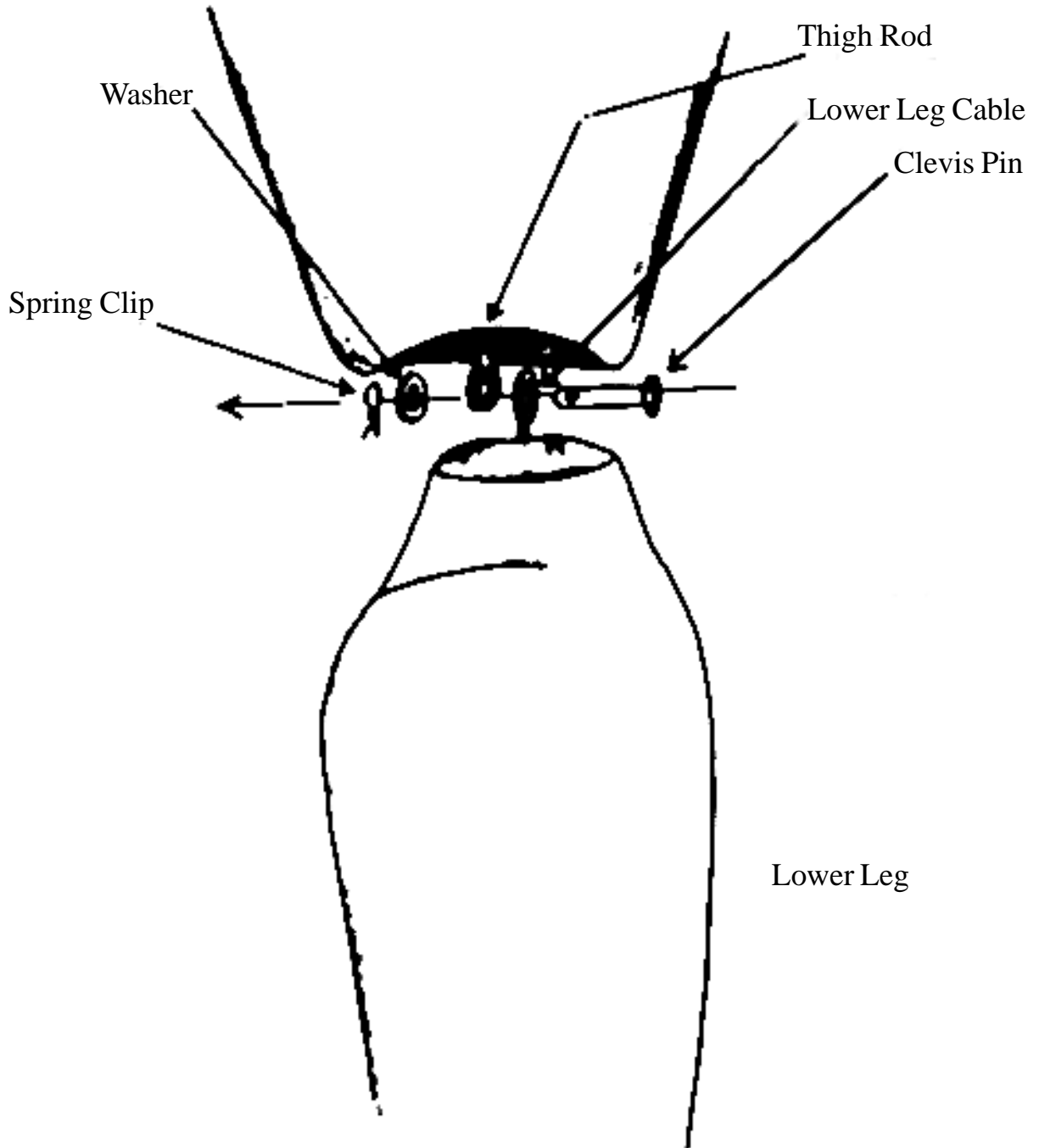
The only components of Simulaid's Full Bodied CPR/Trauma Manikin that require scrupulous disinfection are the airway cutoff valve and the mouth/nose pieces. The airway tubing and valve are designed to be disposed of at the end of the training class. However, they may be reused after carrying out the following procedure:

1. Clean in mild soap and water.
2. Rinse thoroughly in clear water.
3. Disinfect as per C.D.C. protocols.
4. Rinse thoroughly and dry.

## **REASSEMBLY**

1. Secure ball valve into head.
2. Insert the one way valve located at the top of the airway into the opened port of the ball valve.
3. Feed tubing down through hole in neck.
4. Re-attach head with clevis pin and hair cotter pin.
5. Attach lung to airway. Electronic Model: Reach into chest cavity and feed airway tubing through hole in chest cavity and attach lung to airway tube.
6. Electronic Model: Fit upper and lower torso halves together feeding rod through at waist and attach hair cotter pin.
7. Re-attach chest skin in place.

# LEG ASSEMBLY DIAGRAM



## **CARE AND MAINTENANCE**

Since Simulaids' Full Bodied CPR/Trauma Manikin takes the place of a live victim in your training program, it should be maintained with care and treated as you would any other valuable training tool. It **should not be dropped** nor subjected to temperatures above 100<sup>o</sup>F. These precautions will prevent deformation of the body and possible damage to the internal skeletal structure. Care should be taken to ensure that the body and limbs are not punctured or torn. Simulaids' Full Bodied CPR/Trauma Manikin feature fully articulated limbs. However, care should be taken not to twist the arms and legs into positions that a human body would not normally withstand. After each training exercise, or when needed, the manikin should be washed with hot, soapy water. The use of solvents or strong cleansers is not recommended. However, an "all-purpose" cleaner (i.e., 409 or Fantastic) may be used.

## **STORAGE**

If possible, the manikin should be stored at normal room temperature (62<sup>o</sup>F to 80<sup>o</sup>F). The optional Carry/Storage Bag (#1373) is an excellent way of keeping your manikin clean and damage-free while not in use. Disconnect console box when not in use.

## **LIMITED WARRANTY**

Simulaids warrants this product to be free from any defect in materials and/or workmanship for a period of three years from the date of purchase, as evidenced by the date of invoice when the product was shipped to the end user. This warranty expressly does not cover abuse, accidental or purposeful damage, or any form of modification to the product.

Simulaids reserves the right to either repair or replace affected parts or the entire unit, at their sole discretion, after investigating and reviewing the actual product and the damage. In most instances, a digital photo of the product in question showing the damage will help qualify a product for return to the factory. At no time will any product be accepted at the plant without proper return authorization issued by Simulaids.

Freight and Shipping charges are the sole responsibility of the end user. No product will be received with shipping charges due.

Any product considered for warranty work must be identified by serial number and invoice number from the agency through whom the product was purchased. Without this information the product will not receive a return authorization number as required above.

## **RETURN POLICY**

Should it be necessary to return an item for credit for any reason, contact our Customer Service Department to obtain an RGA Number. Please refer to your invoice number when phoning in your request for returning merchandise. Should you have any questions or wish further information on any product we manufacture call or write our Customer Service Department:

## **REPLACEMENT COMPONENTS AND OPTIONS**

- #2700 Full-Body CPR/Trauma Manikin
- #2725 Full-Body with Electronics
- #2750 Full Body CPR/Trauma (African-American)
- #2701 Airway Cutoff Ball Valve for CPR/Trauma Manikin
- #2727 Airway Cutoff Ball Valve for Electronic Model
- #2023 Channel Mouth/Nose Pieces (10 Pk)
- #2601 Channel Mouth/Nose Pieces (10 Pk African-American)
- #2507 Airways with Lungs (10 Pk) (LITTLE ADAM)
- #2030 Lungs only (20 Pk) (ADAM)
- #2703 CPR Head (Rigid)
- #2726 Chest Skin Overlay (with extra snaps)
- #2704 Transport Rescue Head
- #2754 Transport Rescue Head (African-American)
- #1373 Carry, Storage Bag
- #1374 IV Lower Arm with Hand
- #1374B IV Lower Arm with Hand (African-American)
- #6701 Trauma Moulage Kit
- #6701B Trauma Moulage Kit (African-American)

## **Weights & Dimensions**

Manikin Weight 49 lbs.

Shipping Weight 60 lbs.

Dimensions: L 50" H 12" W 21"



 **Simulaids**



Manufacturers of Training Manikins, Casualty Simulation Kits,  
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