

# INSTRUCTION MANUAL

## Casualty Simulation Kits Instructions for Use



# Instructions for Use

**Preparation of Simulated Blood:** Thoroughly mix contents of a packet in 1 quart of hot water. Stir briskly for 5 minutes or until the powder has completely and evenly been mixed with all of the water. Now add an additional 3 quarts of cold water. Stir actively until solution is complete.

**Preparation of Simulated Coagulant Blood:** Add one heaping teaspoon of the methylcellulose powder to ½ cup of hot water. Stir briskly, and when powder is completely dissolved, add 1½ cups of simulated blood. The resultant thick blood is suitable for use with many casualty simulations.

**CAUTION NOTE:** Blood Powder and Simulated Coagulant Blood contains certified food colors which may stain. Extreme caution should be practiced when using near fabrics, wood floors, upholstery, and human hair. Good laundering will remove color from many fabrics but may leave permanent stains on hair, wood, certain fabrics, and some synthetics. Certified food colors are formulated with USP methyl cellulose and USP sodium benzoate to prevent spoilage.

**NOTE:** Not intended for human consumption. **DO NOT PUT IN MOUTH**

**CLOTHING:** Victims should use old clothing, which may be torn to “conform” with the type of injury being demonstrated. Bleeding moulages should be concealed under the victim’s clothing and only the wound should be showing. Short sleeves and shorts are not recommended for extremity bleeding compound fractures. Not intended for human consumption.

**STRAP-ON INJURIES: Assembly and Operation**

**A.** Clamp the tube in the reservoir line closed with a plastic clamp. Open the cap on reservoir and fill with simulated blood and close the cap. Affix moulage to appropriate part of the body and connect the tube to bloodline.  
**NOTE:** To remove any kinks from reservoir assemblies, dip tubing into hot water approximately 15 to 20 seconds and cool before using.

**B.** After the “wounded” person is in position, open reservoir line clamp. Squeeze the bulb several times until blood fills the bulb and bloodline to moulage. Gentle, intermittent squeezing of the bulb will simulate arterial bleeding.

**C.** The sucking wound of the chest moulage does not have a reservoir. It is connected directly to the single outlet bulb which is initially half filled with simulated blood. The bulb, when squeezed and released in synchronization with the breathing, will create a sucking and frothing effect at the wound site.

**D.** For non-bleeding injuries, coagulant blood and brown grease paint should be smeared on the injury area.

# Instructions for Use

**CLEANING AND MAINTENANCE:** Empty the reservoir of all simulated blood. Fill the bag with warm water and a few drops of a mild dish detergent. Run soapy water through bloodlines to remove any remaining blood. Refill bag with clear warm water and run water through to rinse soap from bloodlines. Wash the moulages with mild soap and warm water, rinse and let dry thoroughly before storing.

**CAUTION NOTE:** Do not scrub, use boiling water, harsh detergents, or abrasive cleaners. Moulages should be rolled for storage. **DO NOT FOLD.**

**MAKE-UP INJURIES:** Liberally coat the back of plastic wound replica with the adhesive provided and press wound replica firmly against the skin. Feather edges and surrounding area with simulation wax. Smear dark brown grease paint on palms of hands and rub into and around wound area. Apply coagulant blood to bleeding-type injuries. Tobacco ash, dirt, or similar foreign matter may be rubbed into wounds for additional realism. Coagulant blood is also excellent for nose and ear bleeding.

**REMOVAL OF MAKE-UP INJURIES AND MAKE-UP:** Adhesive and PLASTEX are soluble in alcohol. Grease paint may be best removed using make-up remover or cold cream.

**MAKE-UP MATERIALS AND SUPPLIES:** Make-up may be used to simulate a large variety of casualties. Before application of grease paint, coat area with cold cream. Grease paint is applied using the fingers and palms of the hand. Liners are used for detail coloring.

**Shock:** Apply cold cream to the entire face area. Rub in white paint to cover. Apply blue grease paint under eyes, cheeks, ear lobes, and mouth. Blend in. The cold cream exudes moisture and simulates perspiration.

**Scrapes and abrasions:** Apply light coating of adhesive to the injury site. Rub in a small amount of brown grease paint, then gently rub dirt or sand into the wound. Apply a small amount of coagulant blood. Use comb to mark direction of abrasion.

**1st and 2nd degree burn:** Apply adhesive to burn area. Use red and brown greasepaint to simulate burned area. Petroleum jelly makes effective blisters for 2nd-degree burns. To complete the visual effect for a burned victim, tear and char clothes prior to the victim wearing.

**TO SIMULATE GLASS IN WOUND:** Smooth a narrow mound of make-up wax on the "victim's" skin, imbed plexiglass fragment in the wax, and cover entrance site of plexiglass with simulated coagulant blood. Other objects, such as nails, pieces of metal, etc., can be used.

**CAUTION: SOME PIECES MAY CONTAIN SHARP EDGES!** To avoid injury, dull the sharp edges before applying to the victim.

## Deluxe Casualty Simulation Kit No. 890

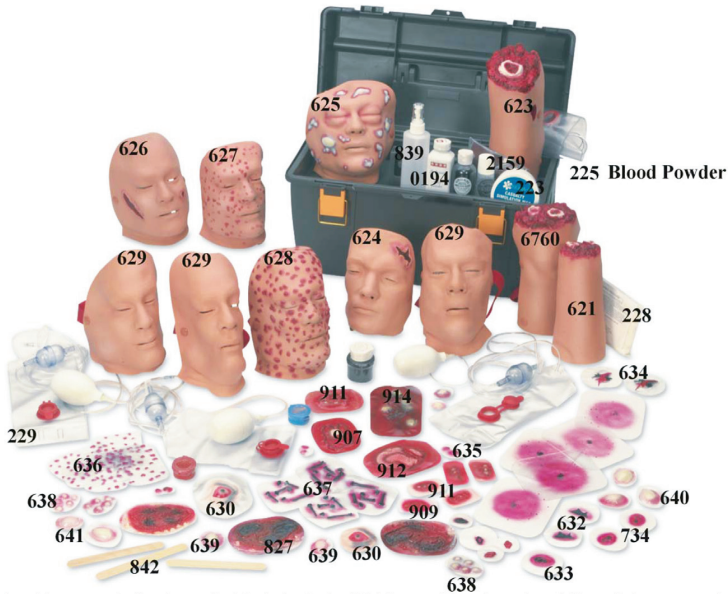


**Stick-On Wounds:** Eyeball (#900), Foreign Body Protrusion (#901), Eviscerated Intestines (#902), Large Laceration 5 cm (#903), Medium Laceration 3 cm (#904), Small Laceration 1 cm (#905), Compound Fractured Tibia (#906), Compound Fractured Humerus (#907), Compound Fractured Femur (#908), Small Sepsis Wound (#909), Large Sepsis Wound (#910), Avulsion 3 x 5 cm (#911), Major Avulsion 8 x 5 cm (#912), Crushed Foot (#913), 2nd Degree Burn (#914)

**Make-Up Accessories:** Atomizer (#839), Body Adhesive (#PP2159), Cold Cream (#851), Cotton Balls (#843 Pk. of 100), Glycerin (#847), Mineral Oil (#240), Mirror (#838), Pallet (#834), Petroleum Jelly (#239), plexiglass pack (#230), Q-tips (#841 Pk. of 100), Scissors (#836), Spatulas (#835 Pk. of 6), Sponges (#241 Pk. of 6)3.



## Weapons of Mass Destruction Casualty Simulation Kit No. 870



**Stick-On Moulages:** 6 2nd Degree Burns (#914) · 6 Burned Eyes from Mustard Gas (#630) · 6 Compound Fracture Humerus (#907) · 6 1st, 2nd, 3rd Degree Burns (#827) · 6 Major Avulsions, 8 x 5 cm (#912) · 6 Avulsions, 3.5 cm (#911) · 6 Small Sepsis Wounds (#909) · 6 Small Exit Wounds (#733) · 6 Star-Shaped Anthrax Wounds (#632) · 6 Oblong Anthrax Wounds (#633) · 6 Large Star-Shaped Anthrax Wounds (#634) · 6 Smallpox (Double Wound) (#635) · 6 Multiple Smallpox Wounds (#636) · 6 IED Wounds (#637) · 6 Multiple Mustard Gas Wounds (#638) · 6 Small Mustard Gas Wounds (#639) · 6 Medium Mustard Gas Wounds (#640) · 6 Large Mustard Gas Wounds (#641)

**Strap-On Moulages:** 1 Hand Amputation (#621) · 1 Leg Amputation (#6760) · 1 Arm Amputation (#623) · 1 Anthrax Forehead (#624) · 1 Mustard Gas Face (#625) · 1 Anthrax Double Wound Face (#626) · 1 2nd-3rd Day Smallpox Face (#627) · 1 8th-10th Day Smallpox Face (#628) · 3 Sarin, Ricin Faces (#629, Bleeding Eyes and Nose, Sweating)

**Make-Up Accessories:** 100 Tongue Depressors (#842) · 1 Coagulant Blood, 4 oz. (#226) · 1 Methyl Cellulose (#228) · 1 Blood Powder, 1 per Gallon (#225, 5 Pack) · 1 Body Adhesive (#2159) · 1 Casualty Simulation Wax, 8 oz. (#223) · 1 White Grease Paint, 2 oz. (#220) · 1 Brown Grease Paint, 2 oz. (#221) · 1 Blue Grease Paint, 2 oz. (#222) · 1 Red Grease Paint, 2 oz. (#218) · 1 Powdered Charcoal, 2 oz. (#854) · 1 Atomizer (#839) · 6 Make-Up Sponge Wedges (#241) · 1 Baby Powder, 4 oz. (#0194)

# Instructions for Use

## Advanced Military Casualty No. 819



### **Bleeding Strap-On Moulages Complete with Reservoir Bag & Pump Assembly:**

2 Compound Fracture Humerus (Upper Arm) (#6816), 2 Compound Fracture Tibia (Lower Leg) (#6761), 5 Dozen Assorted Stick-On Injury Simulations (#219), 1 Make- Up Palette (#834), 1 Pair of Scissors (#836), 1 Mirror (#838), 1 Measuring Cup (#840), 2 Atomizer Mist Sprayer (#839), 1 Casualty Simulation Wax (#223), 1 Body Adhesive for Stick-On Wounds (#PP2159), 2 Bottles of Coagulant Make-Up Blood (#226), 3 Packages of Powder to Make 3 Gallons of Simulated Blood (#225), 1 Methyl Cellulose for Blood Thickening (#228), 2 Packages of Broken Plexiglass Simulating Glass Imbedded in Wound (#230), 2 Fake Dirt (#233), 1 Glycerine for Simulating Perspiration (#847), 1 Cold Cream (#851), 1 Mineral Oil (#240), 1 Charcoal (#854), 3 Latex Compound to Simulate Scars (#231), 2 Petroleum Jelly (#239), 2 Pressure Sensitive Tape (#845), 1 Plastalene Modeling Paste - White (#856), 1 Plastalene Modeling Paste - Dark (#855), 2 each Make-up Liners ½ oz. each of Colors: Red (#866), Blue (#868), Brown (#235), White (#234), Yellow (#867), Black (#236), & Flesh (#237) Reorder is 1 Each.

**Also Included:** An Assortment of Cotton Balls (#843), Cotton Applicators/Swab Sticks (#841), Tongue Depressors (#842), Tissues (#844), Make-Up Sponges (#241 Set of 6), and Spatulas (#835 Pk. of 6).





# Instructions for Use

## Multiple Casualty Simulation Kit No. 816



### **Kit Contents:**

Bleeding Strap-On Wounds with Reservoir Bags and Pump Assembly: 1 Leg Amputation (#6760), 1 Compound Fracture of Tibia - Lower Leg (#6761), 1 Compound Fracture of Humerus - Upper Arm (#6816), 1 Sucking Wound of the Chest (#6713), 1 Gunshot Wound of the Palm (#6881), 24 Assorted Stick-On Lacerations & Open Fracture Wounds (#219 1 Dozen)

**Accessories:** 1 Bottle of Coagulant Make-up Blood (#226), 1 Pkg. of Methyl Cellulose for Blood Thickening (#228), 3 Packages of Powder to Make 3 Gallons of Simulated Blood (#225 Pk.), 1 Body Adhesive for Stick-On Wounds (#PP2159), 1 Casualty Simulation Wax (#223), 1 Pkg. of Broken Plexiglass for Simulating Glass Imbedded in Wound. (#230), 1 each of Grease Paint Colors: White, Blue, Brown, and Red (#220, 222, 221, 218), 4 Reservoir Bags with Pumps Assembled (#229 each), 1 Atomizer Mist Sprayer (#839), 3 Spatulas (Reorder #835 Pk. of 6), 3 Tongue Depressors (Reorder #842 Pk. of 100)

# About

## **LIST OF COMPONENTS FOR LF01122**

- 8 Tubing Adapters
- 4 Dry Natural Rubber Tubes (Veins)
- Shoestring
- 2-oz. Bottle of Lubricant
- Replacement Arm Skin (Light)

## **LIST OF COMPONENTS FOR LF01123**

- 8 Tubing Adapters
- 4 Dry Natural Rubber Tubes (Veins)
- Shoestring
- 2-oz. Bottle of Lubricant
- Replacement Arm Skin (Dark)

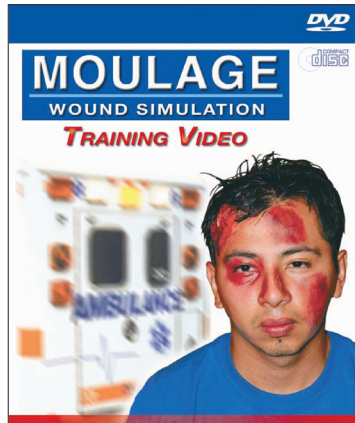
## **LIST OF COMPONENTS FOR LF01124**

- 8 Tubing Adapters
- 4 Dry Natural Rubber Tubes (Veins)
- 2-oz. Bottle of Lubricant

## **SUPPLIES AND REPLACEMENT PARTS**

LF00845 Life/form® Blood, 1 quart  
LF00846 Life/form® Blood, 1 gallon  
LF00991 Shoulder Injection Pad Replacement  
LF00993 Replacement Vein Manifold  
LF00985 Lubricant, pack of 6, 2-oz. bottles  
LF00996 Vyna-Bond Adhesive  
LF01022 Fluid Supply Stand  
LF01099 Vein Tubing Sealant  
LF01104 Life/form® IV Arm Skin & Vein Replacement DVD – FREE  
LF01105 Life/form® IV Arm Set-Up & Troubleshooting DVD – FREE  
LF01122 Light Skin & Vein Replacement Kit  
LF01123 Dark Skin & Vein Replacement Kit  
LF01124 Vein Replacement Kit  
LF01130 Fluid Supply Bag  
LF09919 Nasco Cleaner

<b>Item Number</b>	<b>Item Description</b>	<b>Item Number</b>	<b>Item Description</b>
815	Basic Casualty Simulation Kit	6880	Trench Foot Non-Bleeding Strap-On
816	Multiple Casualty Simulation Kit	6882	Face in Shock Non-Bleeding Strap-On
818	EMT Casualty Simulation Kit	6884	Hypodermic Needle Injection Trainer Non-Bleeding Strap-On
819	Advanced Military Casualty Simulation Kit	6724	2nd and 3rd Degree Burn of the Chest Non-Bleeding Strap-On
880	Moulage Instruction Movie	6732	Burn of Face (FOR MANIKIN USE ONLY) Non-Bleeding Strap-On
890	Deluxe Casualty Simulation Kit	6750	Blade/Propeller Wound Non-Bleeding Strap-On
700	Forensic Wound Simulation Training Kit	6773	2nd and 3rd Degree Burn of the Back Non-Bleeding Strap-On
710	Forensic Wound Simulation Pack	6799	2nd and 3rd Degree Burn of the Hand Non-Bleeding Strap-On
870	Weapons of Mass Destruction Casualty Simulation Kit	6881	Gunshot Wound of the Palm Bleeding Strap-On
900	Eyeball Stick-On	6713	Sucking Wound of the Chest Strap-On
901	Foreign Body Protusion Stick-On	6725	Laceration of the Forehead Bleeding Strap-On
902	Eviscerated Intestines Stick-On	6726	Laceration of the Forearm Bleeding Strap-On
903	Large Laceration 5 cm Stick-On	6727	Broken Clavicle Bleeding Strap-On
904	Medium Laceration 3 cm Stick-On	6728	Projectile Entry Bleeding Strap-On
905	Small Laceration 1 cm Stick-On	6729	Impalement of Lower Leg Bleeding Strap-On
906	Compound Fracture Tibia Stick-On	6730	Crushed Foot Bleeding Strap-On
907	Compound Fracture Humerus Stick-On	6731	Jaw Wound (FOR MANIKIN USE ONLY) Bleeding Strap-On
908	Compound Fracture Femur Stick-On	6733	Laceration of Forehead (FOR MANIKIN USE ONLY) Bleeding Strap-On
909	Small Sepsis Wound Stick-On	6760	Leg Amputation Bleeding Strap-On
910	Large Sepsis Wound Stick-On	6761	Compound Fracture Tibia (Lower Leg) Bleeding Strap-On
911	Avulsion 3 x 5 cm Stick-On		
912	Major Avulsion Stick-On		
913	Crushed Foot Stick-On		
914	2nd Degree Burn Stick-On		
6700	Hand with Severed Fingers, Non-Bleeding Strap-On		
6801	Phosphorous Burn of the Hand Non-Bleeding Strap-On		
6802	2nd and 3rd Degree Burn of the Forearm Non-Bleeding Strap-On		
6807	Jaw Wound Non-Bleeding Strap-On		
6808	Abdominal Wound with Protruding Intestines Non-Bleeding Strap-On		
6816	Compound Fracture Humerus (Upper Arm) Non-Bleeding Strap-On		
6819	Compound Fracture Femur (Upper Leg) Non-Bleeding Strap-On		
6828	2nd and 3rd Degree Burn of the Face Non-Bleeding Strap-On		
6835	Frostbite of the Foot Non-Bleeding Strap-On		



### **Moulage Movie No. 880**

Moulage instruction is hard to find, unless you look at the Moulage Movie by Simulaids. Produced in conjunction with a leading artist using Hollywood-training techniques and years of military experience, the Moulage Movie explains the use and application of every portion of the Simulaids Casualty Simulation Kits.

Start simple and go for the realism; each segment of moulage is represented within the frames you'll see during this 45-minute presentation. Use it as a base to build your repertoire of the most realistic moulage to add challenge to your next casualty incident.



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