



# Prestan Professional Manikins

## ADULT MANIKIN

### USE AND CARE INSTRUCTION SHEET

**THANK YOU** for buying the **Prestan Professional Adult Manikin!**

Please read through these instructions and keep them with your manikin(s).



*Prestan Professional Adult Manikin*

*Prestan Professional Adult Manikin 4-Pack*

For future reference, make note below of the Prestan Authorized Distributor where you purchased your manikins. Call your Prestan Authorized Distributor for product questions, reordering parts/accessories, or warranty issues:

\_\_\_\_\_  
Prestan Authorized Distributor

\_\_\_\_\_  
Distributor Phone

\_\_\_\_\_  
Purchase Date



## MODELS COVERED BY THIS INSTRUCTION SHEET

PRODUCT # (MODEL)	MANIKIN PACK	MANIKIN QTY/SIZE	INCLUDED CPR RATE MONITOR(S) *	INCLUDED CARRY CASE	INCLUDED FACE-SHIELD/ LUNG-BAGS
PP-AM-100M PP-AM-100M-MS PP-AM-100M-DS	SINGLE	1 ADULT	YES	SINGLE CASE	10-PACK
PP-AM-100 PP-AM-100-MS PP-AM-100-DS	SINGLE	1 ADULT	NO	SINGLE CASE	10-PACK
PP-AM-400M PP-AM-400M-MS PP-AM-400M-DS	4-PACK	4 ADULTS	YES 1 PER MANIKIN	4-PACK CASE w/strap	50-PACK
PP-AM-400 PP-AM-400-MS PP-AM-400-DS	4-PACK	4 ADULTS	NO	4-PACK CASE w/strap	50-PACK
PP-FM-300M PP-FM-300M-MS PP-FM-300M-DS	COLLECTION **	1 ADULT, 1 CHILD, 1 INFANT	YES 1 PER MANIKIN	COLLECTION CASE w/strap	10-PACK PER MANIKIN
PP-FM-500M PP-FM-500M-MS PP-FM-500M-DS	FAMILY PACK **	2 ADULTS, 1 CHILD, 2 INFANTS	YES 1 PER MANIKIN	FAMILY PACK CASE w/strap	10-PACK PER MANIKIN

### REGARDING THE ABOVE CHART AND THE CONTENTS OF YOUR ORDER:

\* The **CPR Rate Monitor** (*Rate Monitor, CPR Monitor, Monitor*) is a patented feedback feature for **Prestan Professional Manikins** that consists of an LED light bank that responds to compressions (see the section on the CPR Rate Monitor). The CPR Rate Monitor (*requires two (2) 'AA' batteries; not included*) is pre-installed in the left shoulder of the adult manikin. If you purchased the Prestan Professional Manikin without the CPR Rate Monitor and later decide you would like one, it may be ordered separately from your Prestan Authorized Distributor and easily installed. Installation instructions may be found in the Resources section of [www.prestanproducts.com](http://www.prestanproducts.com).

\*\* **The Prestan Collection and Prestan Family Pack** also include **Prestan Professional Infant and Child Manikins**. These have separate Instruction Sheets that are included with the manikins or can be accessed at [www.prestanproducts.com](http://www.prestanproducts.com).

**Available Skin Tones:** Any of the above models may be available in one of three Skin Tones:

- A model number without a suffix signifies our original Light Skin Tone
- A model number with a “-MS” at the end (i.e. PP-AM-100M-MS) signifies a Medium Skin Tone
- A model number with a “-DS” at the end (i.e. PP-AM-400-DS) this signifies Dark Skin tone

**Black Felt Dots** are included on a strip for optional use with Adult Manikins. These may be adhered to the underside of the manikin torso to help prevent sliding on slippery floor surfaces.

If anything is missing, please contact the Prestan Authorized Distributor where you made your purchase.

# Prestan Professional ADULT MANIKINS



## CLEANING

- The face and the body skin of the Prestan® Professional Manikin is made out of the same material and can be cleaned in the same manner.
- If the material becomes dirty, clean with a mixture of soap and water. If the area is extremely dirty, common household cleaners such as Formula 409®, Windex® or Vim® may be used. Non-bleach wipes such as Clorox® or Lysol® disinfecting wipes are convenient and work well. It is recommended that the use of these cleaners be done cautiously with minimum amount of abrasion to insure the life of the skin.
- A melamine foam eraser such as Mr. Clean® Magic Eraser® or Scotch-Brite™ Easy Erasing Pad may be used cautiously for stains.
- Cleaners containing wax, oil, or citrus (d-Limonene) are not recommended.
- Any cleaner not listed/recommended above may be tested in a non-visible area of the manikin. Open the manikin's torso chest and test the cleaner on the underside. Monitor for 24 hours. Should there be an undesirable reaction, the cleaner should not be used on the manikin.
- The face skin may also be sanitized with alcohol wipes or soaked in a solution of 1/4 cup bleach mixed with one gallon of water for 10 minutes. Between student uses, the instructor (or student) may clean the faces off with an alcohol wipe as an extra measure of safety.
- Don't forget to wipe the upper chest foam and skin in the same way in order to sanitize the inside of the manikin as well.
- Replacement skins for the face and torso may be purchased from your Prestan Authorized Distributor.

## STORAGE

- Store the Prestan Professional Manikin(s) in the nylon carry bag(s).
- The manikin head should be removed for protection of the facial features, specifically the nose.
- For added protection, store the manikin inside the carry bag, and place the carry bag inside the original shipping box.
- Do not stack the manikins unless they are inside the original shipping box or other protective container.
- The nylon carry bag for the Prestan Professional Manikin(s) is not meant to store or transport belongings (i.e. books) in addition to the manikin(s) - please use the carry bag only for the intended manikin(s) to prevent damage to the bag.
- Store the manikin(s) in a cool, dry area, at temperatures between 50°-70° F and 50% relative humidity.
- For storage longer than 1 month, it is recommended that the batteries be removed from the CPR Rate Monitor (if the manikin has this feature).

## CPR FEATURES

### FACE-SHIELD/LUNG-BAG FOR THE VISIBLE CHEST RISE

- The Face-Shield/Lung-Bag (PP-ALB-10, PP-ALB-50) combines the Face Shield and the Lung Bag into a single, t-shaped airway for the manikin. Air goes in through the Face-Shield opening to inflate the Lung-Bag, which provides the visible chest rise in response to administered CPR breaths.
- Face-Shield/Lung-Bags are sized specifically to fit each Prestan Professional Manikin (Adult/Child/Infant) and are not interchangeable among the different manikin sizes.
- The Face-Shield portion covers the mouth of the manikin. It stays in place by hooking the ends onto buttons located at each side of the head under the ears.
- The Lung-Bag portion is placed on the manikin chest (under the torso skin) and fills with air from administered CPR breaths. This provides a visual chest rise for the student.
- Face-Shield/Lung-Bags are a consumable item and should be changed depending on how they are used:
  - If breaths are being administered by mouth, either directly or via rescue mask adaptor, the Face-Shield/Lung-Bag should be changed between classes due to accumulation of bacteria-causing moisture inside the neck and bag. This change is advised for both sanitary and performance purposes.
  - If breaths are being administered by a manual resuscitator (BVM/Ambu bag), there is no need to change the Face-Shield/Lung-Bag.
- When a manikin is being shared by more than one student, it is recommended that each student be provided with their own sanitary and disposable mouth protector:
  - If direct mouth contact is being used to give CPR breaths, students should be supplied with their own Face Shield (PP-AFS-50) (sold separately and disposable). The fitted Face Shield can be placed over the already-installed Face-Shield/Lung-Bag on the mouth of the manikin when it is that student's turn to give breaths. Generic, non-fitted face shields may also be used, but may slide around on the mouth and possibly cover the mouth opening if not held in place.
  - If rescue masks are being used to give CPR breaths, students should be supplied with their own Rescue Mask Adaptor (10076-PPA, 10076-PPA-50) (sold separately and disposable). The adaptors can be inserted into any standard mask when it is that student's turn to give breaths.

### CPR CLICKER

- The Clicker is the round disk in the center of the manikin's back.
- The Clicker works with compressions to provide an audible "click" when compression depth reaches 2" (the compression is able to continue to a 2.4" depth).
- The Clicker sends a signal to the CPR Rate Monitor (if the manikin has this feature) to allow it to provide feedback on compression speed (see CPR Rate Monitor – Guide)

# Prestan Professional ADULT MANIKINS



## CPR RATE MONITOR - GUIDE

The CPR Rate Monitor (*requires two (2) 'AA' batteries; not included*) is a patented feedback feature that comes pre-installed in the shoulder area of the Prestan Professional Adult Manikin. If you have purchased a Prestan Professional Adult Manikin without the CPR Rate Monitor and later decide you want this feature – it may be purchased and installed separately by contacting your Prestan Authorized Distributor.

The Prestan Professional Training Manikin CPR Rate Monitor has a unique way of monitoring both the depth of compressions and the rate of compressions:

At the first compression all four of the lights in the upper left shoulder will come on, indicating that the lights are working. (Figure 1)

If the lights do not light, make sure that the depth of compression is deep enough (you will hear a clicking sound). The lights will not work if the student is not compressing the manikin correctly.

Once a student begins chest compressions, the yellow light and the green lights will go out and, from zero to less than 60 compressions per minute, the red light will be on. (Figure 2)

As the student increases the rate of compressions and reaches 60 compressions per minute, a yellow light will come on until the student reaches 80 compressions per minute. (Figure 3)

As the student increases the rate of compressions and reaches 80 compressions per minute, the first green light will come on until the student reaches 100 compressions per minute. (Figure 4)

When the student reaches 100 compressions per minute, a second green light comes on, indicating that the recommended rate has been reached. (Figure 5)

If the student slows down, one of the green lights will go out indicating that the student needs to increase the rate of compressions.

Should compressions exceed 120 per minute, a yellow light will flash rapidly indicating the recommended cap has been reached. (Figure 6)

Always try to maintain the recommended speed between 100 and 120 compressions per minute as indicated by the 2 green lights.

If the student's depth of compression is not correct, at any time, all the lights will go off and the red light will blink.



Figure 1



Figure 2; <60 cpm



Figure 3; 60-80 cpm



Figure 4; 80-100 cpm



Figure 5; 100-120 cpm



Figure 6; >120 cpm

## FACE-SHIELD/LUNG-BAG INSTALLATION

1. Unlatch the torso of the Prestan Professional Manikin by popping the 'tabs' located at the top of the shoulders (Figure 1). Carefully lift the torso frame open by the neck.  
**Note: Do not pull on tabs (past popping the latch). Doing so may break the tabs or stretch out the frame over time, impairing the latching function.**



Figure 1



Figure 2

2. Attach the head to the torso by placing the neck of the head onto the two spindles on the neck portion of the torso (Figure 2).

3. Fold the Lung-Bag portion of the Face-Shield/Lung-Bag (Figures 3a-3d):

- The Face-Shield/Lung-Bag has four 'dotted lines' printed on one side of the bag (along with an oval)
- Using the four dotted lines, fold the Face-Shield/Lung-Bag into fourths, following the diagram below

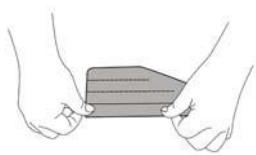


Figure 3a

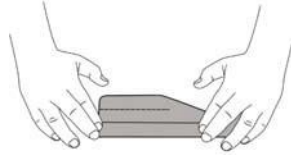


Figure 3b

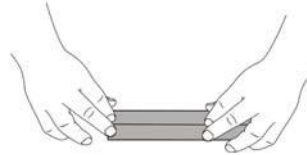


Figure 3c

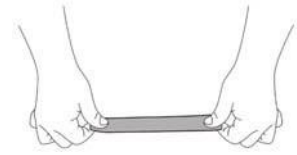


Figure 3d

4. Tilt back the head of the manikin (Figure 4).

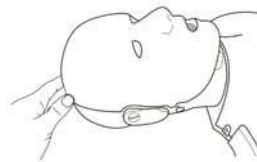


Figure 4

5. Insert the folded Lung-Bag into the mouth of the manikin (Figure 5).

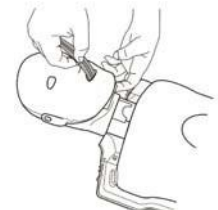


Figure 5

6. Push the Lung-Bag into the mouth until the bag exits through the neck of the manikin (Figure 6).

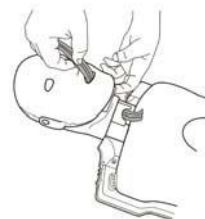


Figure 6

7. Grasp the Lung-Bag and finish pulling it through the neck of the manikin (Figure 7).

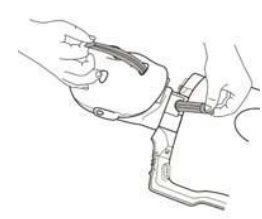


Figure 7

8. Attach the Face-Shield tabs to the 'buttons' located on the side of the manikin head (Figure 8).



Figure 8

9. Lightly pull down on the Lung-Bag to help open the mouth hole on the Face-Shield.

10. Then position the Lung-Bag on top of the compression plate (the hard plastic circular piece found on top of the torso foam core) with the circular imprint on the Lung-Bag aligning with the compression plate (Figure 9).

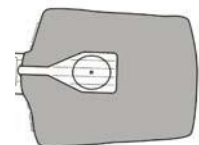


Figure 9

11. With proper positioning, the neck of the Face-Shield/Lung-Bag will have slack. Make sure it is not twisted.

12. Close the torso and secure the latch by pushing on the shoulder tabs until they snap into place.



**PRESTAN®**

# Prestan Professional Manikins

## Repacking the Manikin Carry Bags

In order to preserve the life of your Prestan Manikins and protect protruding features (such as the nose), it is helpful to properly repack them in their carry bag.

Here are photographs of the specific packaging to assist you:

Prestan Professional Adult (or Child) Manikin 4-Pack



Prestan Professional Infant Manikin 4-Pack



Prestan Professional Family Pack

Prestan Professional Collection

Prestan Professional Family Pack



Prestan Professional Collection





PRESTAN®

# Prestan Professional Manikins

## Troubleshooting - CPR Rate Monitor Lights Not Working Properly

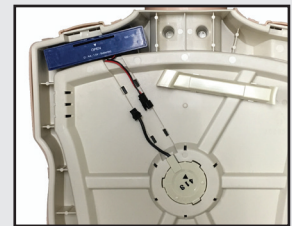
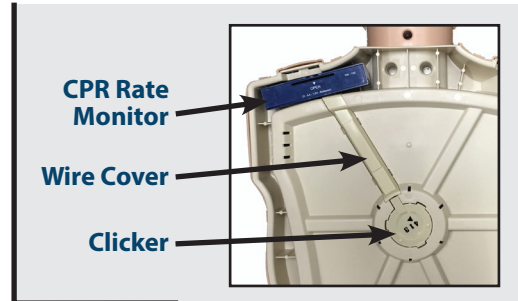
There are 2 working parts in a Prestan Professional Monitored Manikin: the mechanically-operated **Clicker** and the battery-operated **CPR Rate Monitor** (Monitor/Lights). The Monitor lights are powered by a small current, generated by the Clicker. The 2 parts connect to each other as shown in the photos (right).

If the monitor lights are not working properly, follow the troubleshooting steps in the order below for the best results.

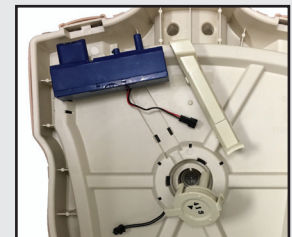
*Note: For the Child or Infant manikins, if steps 1 and 2 do not fix the problem, go directly to the chart at bottom of this page for replacement part referral.*

*Note: The Monitor for the Infant manikin is an easily removable cartridge located beneath the cover in the diaper area. There are no wire connections.*

- 1. Chest compressions must be deep enough to signal the Monitor**
  - > Compress the chest until the click, from the Clicker at 2"-2.4" depth, is audible.
- 2. Batteries may be missing, need replacing, or may not be correctly inserted in the CPR Rate Monitor**
  - > Install or replace new batteries into the Monitor - requires 2-AA (1.5V) batteries. It is not necessary to remove the monitor to replace batteries in the Adult and Child manikins. The Infant manikin's Monitor must be removed from the cavity (under the cover in the diaper area) to change the batteries.
  - > If the Monitor's problem is that ALL lights come on at once, this usually indicates that the batteries are almost depleted and replacement is the correct solution.
- 3. Clicker and Monitor wires may have disconnected from each other (rare)**
  - > On the manikin's back, remove the Wire Cover (see photos right). Disconnect and reconnect the wiring to insure proper Clicker-to-Monitor communications.
- 4. Clicker may be clogged, interrupting the signal to the Monitor (common)**
  - > Remove the Clicker and lightly blow out any accumulated plastic dust. Then replace the Clicker and reconnect the Clicker wires to the Monitor wires.
- 5. Either the Clicker or the Monitor needs to be replaced**
  - > If available, exchange Clickers and Monitors with working manikins to determine whether the Clicker or the Monitor needs to be replaced. If you don't have a second manikin to swap parts with, refer to the chart below for the more common solution.
  - > Contact your Prestan Authorized Distributor (where you purchased your manikins) to obtain the replacement part. If your manikin is within the 3-year warranty period, there will be no charge to you - otherwise, your Prestan Authorized Distributor will assist you with pricing for the replacement part.



Remove the Wire Cover to expose the Clicker and Monitor wires. Disconnect the wires from each other by gently squeezing the connectors and pulling apart.



The Wire Cover and Clicker easily pop out by inserting a small flat-head screwdriver into the slots. For the Monitor, there is a screw next to the monitor lights in the front of the manikin to release it from the shoulder cavity (Phillips-head screwdriver needed).

Manikin	Clicker Part #	Monitor Part #	Replacement Part Notes / Suggested Action
ADULT	RPP-ACLICK-1	RPP-AMON-1	Choosing between the Clicker and the Monitor (if part swapping to confirm is not an option): it is 80-90% more likely that the Clicker is the part that needs to be replaced.
CHILD	RPP-CCLICK-1	RPP-CMON-1	Rarely has problems so no patterns noted - the Monitor would be the likely replacement part.
INFANT	RPP-ICLICK-1	RPP-IMON-1	A Monitor (cartridge) is almost always the necessary replacement part for the Infant Manikin.

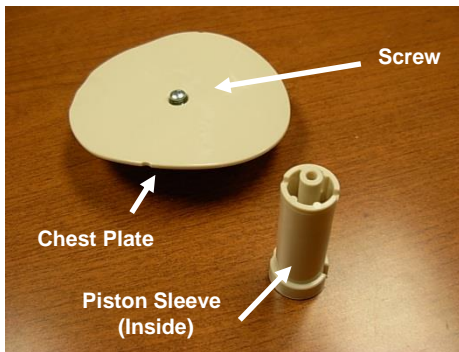


# Prestan Professional Manikins

## Replacing the Piston Sleeve and Chest Plate

**Tools required: a small Slotted style screwdriver and a Phillips screwdriver / a cordless screwdriver is optional**

- 1) Remove OLD Chest Plate** – If still attached, remove OLD Chest Plate using a Phillips screwdriver and discard both Chest Plate and Screw (Figure #1).



Replacement Parts

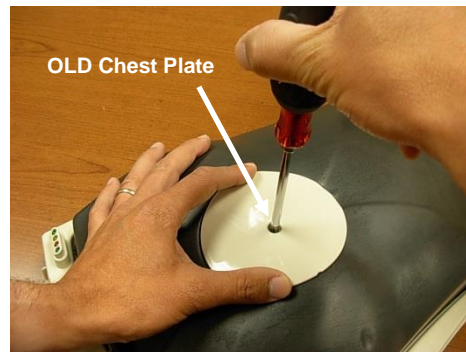


Figure #1

- 2) Remove the Wire Cover** – There are four snap tabs, two on each side of the Wire Cover. Using a small, slotted screwdriver, press in and lift up on two tabs along the same side of the Wire Cover. (Figures #2, #3 & #4)

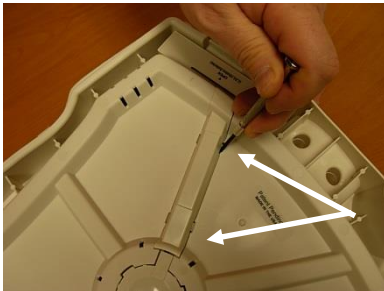


Figure #2

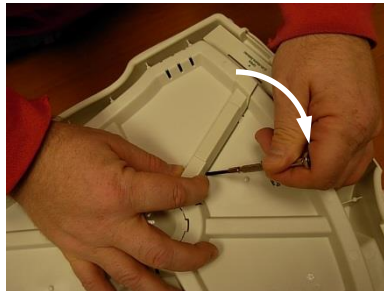


Figure #3

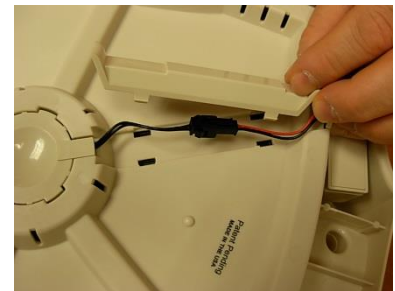


Figure #4

- 3) Remove the Clicker** - There are three tabs on the 'Clicker' that hold it in place. Using your screw driver, carefully press in and lift up on each tab while gently lifting up on the wire. (Figures #5 & #6) After the 3<sup>rd</sup> tab is unhooked, lift out the Clicker (Figure #7).



Figure #5

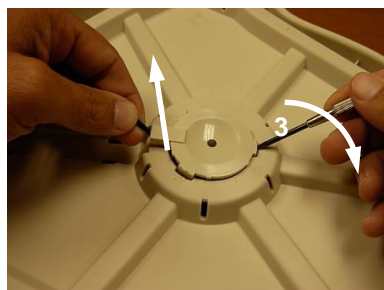


Figure #6



Figure #7

## Replacing the 'Piston Sleeve and Chest Plate' (Continued)

- 4) Remove the Spring and OLD Piston Sleeve** – Remove the Piston Spring (Figure #8) and the OLD Piston Sleeve (Figure #9). Discard the OLD Piston Sleeve.

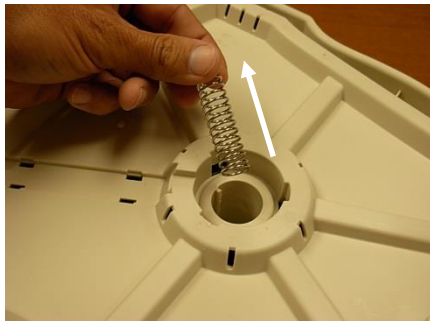


Figure #8

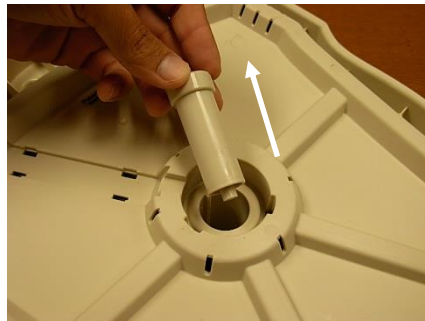


Figure #9

- 5) Insert the NEW Piston Sleeve and Spring** – Insert the NEW Piston Sleeve (Figure #10) making sure the slot on the sleeve is aligned with the rib in the base. Insert Spring (Figure #11).

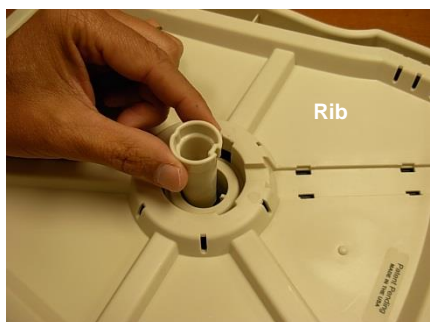


Figure #10

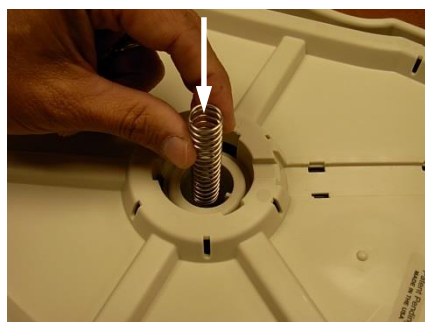


Figure #11

- 6) Reinsert the Clicker** – Align the Clicker with the hole, and snap it down into the hole, being careful not to pinch the wire. (Figure #12) Press firmly on each of the 3 tabs to insure they are engaged (Figure #13)

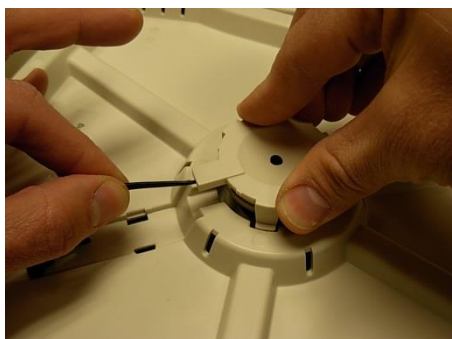


Figure #12

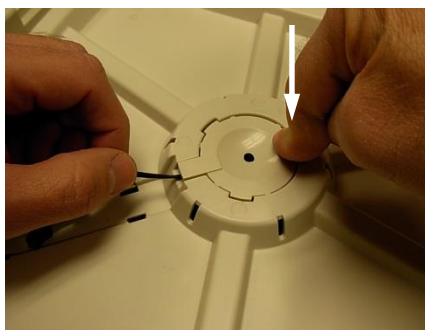


Figure #13



## Prestan Professional Adult Manikin Cleaning the Clicker Mechanism

**Before you start: Newer manikin clickers have been treated with a seal to help keep the insides clean. Here is how to tell if your Clicker is sealed and you will not be able to clean inside the Clicker:**

- The Clicker has a Black Triangle printed on it
- The Clicker has printed on it a three digit date code (first two digits represent the week / last digit represents the year [i.e. 271 = 27th week of 2011]) and the date code is 371 (adult) / 421 (child) / 361 (infant) - OR LATER (newer).

**If your Clicker meets either of the above criteria, you may try wiping it with an alcohol pad to see if this works. If not, please contact your distributor to order a replacement Clicker.**

**Occasionally small plastic shavings will invade the clicker mechanism, blocking the electrical contact in the circuit. When this occurs, the LED feedback monitor lights may not work properly. As opposed to ordering a new clicker, the current clicker (the disk in the center of the manikin's back) may be cleaned to determine if this will fix the problem.**

### Cleaning the Clicker - what you will need:

Phillips-head screwdriver / Flat-head screwdriver / Alcohol wipe or alcohol and cotton swab

### Please follow the steps below:

1. **Remove the Wire Cover:** there are four snap tabs, two on each side of the Wire Cover. Using a small, flat-head screwdriver, press in and lift up on two tabs along the same side of the Wire Cover. Squeeze the connectors to disconnect the Clicker wires from the Monitor wires.
2. **Remove the Clicker:** there are three tabs on the Clicker that hold it in place. Using a flat-head screwdriver, carefully press in and lift up on each tab while gently lifting up on the wire (Figure 1). After the 3rd tab is unhooked, lift out the Clicker, leaving the Spring down in the hole (Figures 2 & 3). Continued next page...

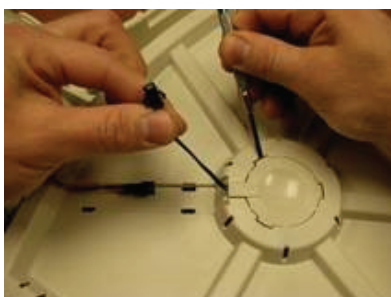


Figure 1

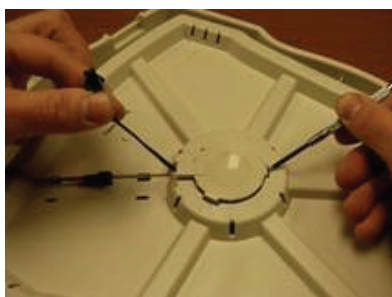


Figure 2



Figure 3

## Replacing the 'Piston Sleeve and Chest Plate' (Continued)

- 7) **Reattach the Wire Cover** – Align wires down the center of channel for the Wire Cover. If needed, make a loop with any excess wire. (Figure #14) Snap the Wire Cover into place by pressing firmly over 4 snaps (Figure #15)

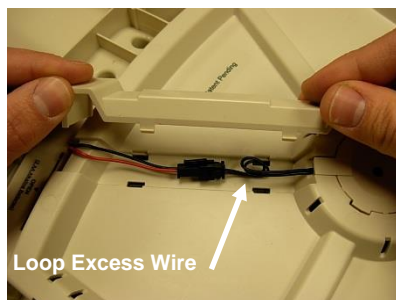


Figure #14



Figure #15

- 8) **Attach NEW Chest Plate** – Align the NEW Chest Plate w/screw already inserted making sure notch on plate is aligned with the notch on the foam (Figure #16). While pushing down on the foam (approx. ½ inch), tighten screw till fully seated (Figure #17) (*Here is where a cordless screwdriver may be helpful*).

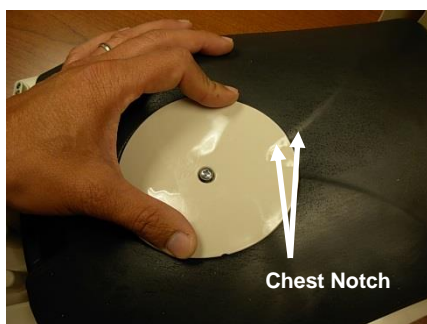
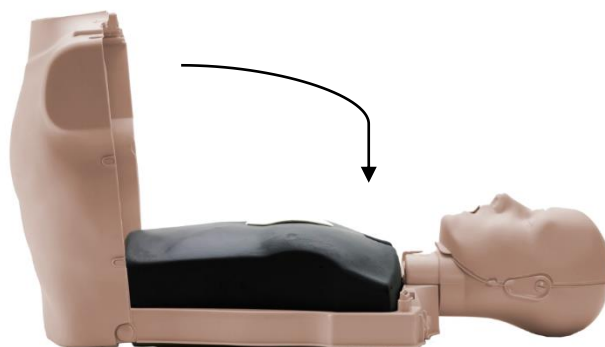


Figure #16



Figure #17

- 9) **Close Manikin Torso**



3. **Disassemble the Clicker:**

- a. Stand the clicker upright and remove the three screws using a Phillips-head screwdriver.
- b. Remove the top of the Clicker. You will see a printed circuit board (PCB) with 2 metal dome switches on top of it.
- c. Using a small flat-head screwdriver, lift the dome off of the PCB and set it aside.

4. **Clean the Clicker:**

- a. Gently clean the PCB with a small amount of alcohol and a cotton swab.
- b. Allow to dry.

5. **Resassemble the Clicker:**

- a. Replace the domes, taking care to put them back in the correct orientation sitting on top of the gold pads (Figures 4 & 5).

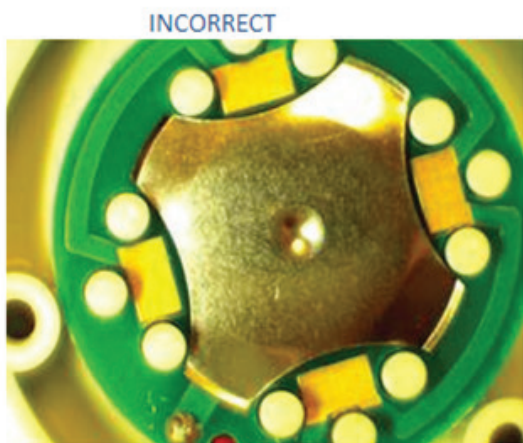


Figure 4



Figure 5

- b. Place the top section of the Clicker back onto the dome section, rotating the top until the tab aligns with the wires and the 2 sections fit together. The proper fit leaves a very small amount of space between the two sections.
- c. Replace the screws.
- d. Reassemble back into the manikin.

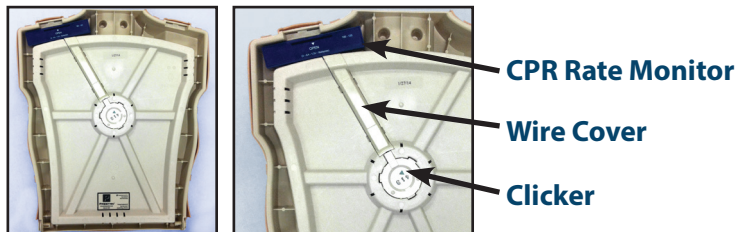
**If the above steps do not fix the problem, then you will need a new Clicker. Please contact your distributor or Prestan.**



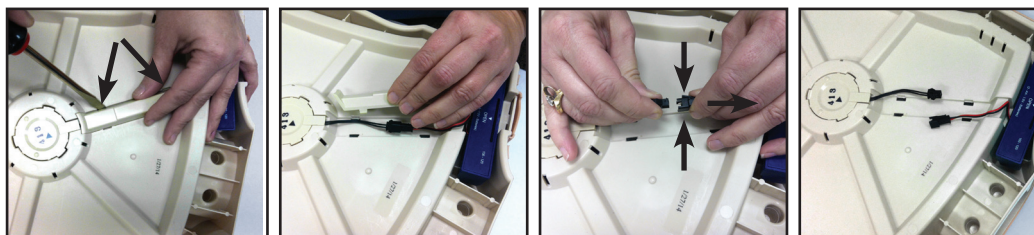
# Prestan Professional Manikins

## Replacing a Prestan Adult or Child CPR Rate Monitor

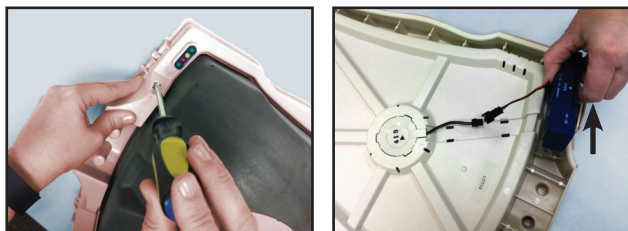
To replace the CPR Rate Monitor (Monitor) on the Adult/Child Manikin, you will need a small flat-head screwdriver and a small phillips-head screwdriver. **To facilitate the instruction procedure, please note the three parts shown at right:**



Remove the Wire Cover by gently inserting the flat-head screwdriver into the side slots and lifting upward until the cover easily pops off. Disconnect the Monitor from the Clicker by squeezing, then pulling apart the two wires at the connection.

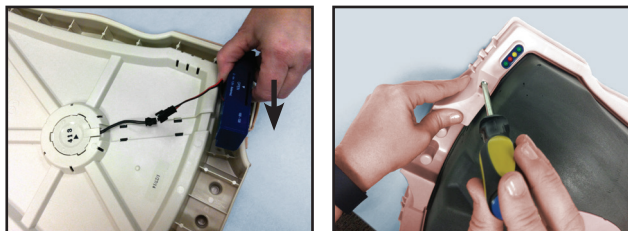


Turn the manikin over and open the clamshell torso to expose the Monitor's lights. Using the phillips-head screwdriver, remove the front screw holding the Monitor in place. The Monitor will drop out of the backside of the manikin.

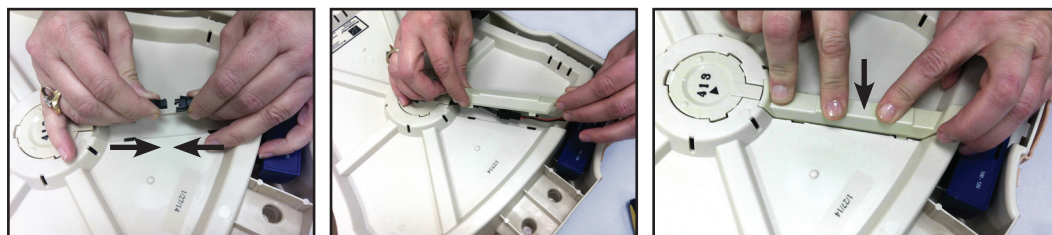


**Is your CPR Rate Monitor not BLUE?**  
BLUE is an upgrade to the Prestan CPR Rate Monitor. It includes an additional feature: a yellow warning light is flashed if the 120 compression upper limit is exceeded by the student (per the 2015 Guidelines).  
Your existing Prestan Manikins can be easily updated with BLUE CPR Rate Monitors - Contact your Prestan authorized distributor for details!

Insert the new CPR Rate Monitor into the back shoulder. The Monitor's LED lights should be visible through the front opening. Secure with screw in front.



Re-connect the Monitor and Clicker wiring. Replace the Wire Cover over the connected wires, being careful that all wiring is tucked in before snapping it in place.



## TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE ISSUES OR COMMENTS	SOLUTIONS
<b>CPR Rate Monitor</b>		
<p>Cannot find CPR Rate Monitor (Monitor) – no lights in the shoulder area</p>	<ul style="list-style-type: none"> <li>You have purchased a Prestan Professional Adult Manikin without the CPR Rate Monitor</li> </ul>	<ul style="list-style-type: none"> <li>If you were expecting a monitored manikin, check with the distributor where you purchased the manikin to insure you received what you paid for</li> </ul> <p>Note: CPR Rate Monitors may be purchased separately from your Prestan Authorized Distributor</p>
<p>CPR Rate Monitor (Monitor) lights are not working properly</p> <p><i>To help understand how the Monitor works, please note that the Monitor lights are powered by a small current generated by the Clicker</i></p> <p><i>Please follow the troubleshooting tips at right in the order they are listed for best results</i></p>	<ul style="list-style-type: none"> <li>Chest compressions are not deep enough to signal Monitor</li> <li>Batteries are not installed, need replacing or are not inserted correctly in the CPR Rate Monitor</li> <li>The Clicker-Monitor connection is broken</li> <li>Clicker may be clogged with plastic dust, interrupting the signal to the Monitor</li> <li>Either the Clicker or the Monitor needs to be replaced</li> </ul>	<ul style="list-style-type: none"> <li>Compress the chest until the click is audible from the Clicker at 2”-2.4”</li> <li>Install or replace batteries into Monitor (back of manikin, left shoulder area) - requires 2-AA (1.5V) batteries</li> <li>On the manikin’s back, remove the long skinny Wire Cover between the Clicker and Monitor – squeeze connectors to disconnect the wires then reconnect to insure Clicker-Monitor communications</li> <li>Remove Clicker and blow out dust – then replace Clicker and reconnect with Monitor</li> <li>Exchange Clickers and Monitors with working manikins (if available) to determine whether the Clicker (RPP-ACLICK1) or the Monitor (RPP-AMON-1) needs to be replaced*</li> </ul>
<p>CPR Rate Monitor (Monitor) lights are all on</p>	<ul style="list-style-type: none"> <li>Batteries are running low</li> </ul>	<ul style="list-style-type: none"> <li>Replace batteries</li> </ul>
<p>CPR Rate Monitor (Monitor) red light is blinking</p>	<ul style="list-style-type: none"> <li>This is normal after replacing batteries or manikin is paused - may blink up to 16 times to indicate ready status</li> </ul>	<ul style="list-style-type: none"> <li>Commence or resume compressions - blinking will stop and feedback rate signals will begin</li> </ul>

\* Contact your Prestan Authorized Distributor to either purchase the replacement part or receive it at no charge if the manikin is within Prestan’s 3-year warranty period and is a qualifying warranty repair.

## TROUBLESHOOTING GUIDE

(Continued)

SYMPTOM	POSSIBLE ISSUES OR COMMENTS	SOLUTIONS
<b>Torso and Face-Shield/Lung-Bag</b>		
<p>Cannot hear a click when doing compressions</p>	<ul style="list-style-type: none"> <li>• Hand position and/or compression angle may be incorrect</li> <li>• Compressions may not be deep enough to activate the clicker</li> <li>• Clicker may be broken</li> </ul>	<ul style="list-style-type: none"> <li>• Confirm correct hand placement and compress straight down from directly above the manikin</li> <li>• Compress between 2 and 2.4 inches depth</li> <li>• Replace Clicker in back of manikin (RPP-ACLICK-1)*</li> </ul>
<p>Chest will not rise when breaths are given</p>	<ul style="list-style-type: none"> <li>• Head is not tilted back enough to open airway</li> <li>• Face Shield is not attached</li> <li>• Lung Bag may be damaged or torn (Note: there are holes in the Adult Lung Bag necks by design to allow deflation)</li> <li>• Lung Bag is not lying flat or properly positioned over the compression plate and/or neck of bag is twisted</li> <li>• Lung Bag has accumulated moisture in the neck, which may cause the sides to stick together and prevent air passage</li> </ul>	<ul style="list-style-type: none"> <li>• Push on forehead and/or lift at chin to tilt head back enough to open airway</li> <li>• Attach Face Shield at “buttons” on the side of the manikin’s head below ears</li> <li>• Blow into the Face-Shield/Lung-Bag while it is outside the manikin to make sure it inflates properly – if not, discard and use another Face-Shield/Lung-Bag</li> <li>• Revisit instructions for installing a Face-Shield/Lung-Bag earlier in this manual</li> <li>• A new Face-Shield/Lung-Bag should be installed after each class, or more often if needed due to excessive moisture buildup</li> </ul>
<p>Manikin torso will not stay closed</p> <p>Manikin torso opens when breaths are given</p>	<ul style="list-style-type: none"> <li>• Tabbed latches at shoulders may not be securely closed</li> <li>• Chest frame may be stretched from improper opening of torso</li> <li>• Tabbed latches at shoulders are broken from improper opening of torso</li> </ul>	<ul style="list-style-type: none"> <li>• Close tabs at shoulders – a snap will be heard when shoulder tabs are properly latched</li> <li>• Open torso and attempt to reverse stretched out frame by pushing it in the opposite direction</li> <li>• Torso Frame needs to be replaced (RPP-AFRAME-1)*</li> </ul>

## TROUBLESHOOTING GUIDE

(Continued)

SYMPTOM	POSSIBLE ISSUES OR COMMENTS	SOLUTIONS
<b>Torso</b>		
Rattling in chest	<ul style="list-style-type: none"> <li>Compression Sleeve may be broken</li> </ul>	<ul style="list-style-type: none"> <li>Replace sleeve in chest with part RPP-ACOM-1 (compression assembly includes chest plate, spring, sleeve and clicker)*</li> </ul>
Chest Plate is broken	<ul style="list-style-type: none"> <li>Typically results from a combination of incorrect (not centered) hand placement, compression angle not straight down from directly above and/or overzealous compression force</li> </ul>	<ul style="list-style-type: none"> <li>Replace chest plate with RPP-ACOM-1 (compression assembly includes chest plate, spring, sleeve and clicker)*</li> </ul>

\* Contact your Prestan Authorized Distributor to either purchase the replacement part or receive it at no charge if the manikin is within Prestan's 3-year warranty period and is a qualifying warranty repair.

# PRESTAN Professional Adult/Child Manikins

## Frequently Asked Questions



### **Can you use a Pocket Mask with the new PRESTAN Professional Manikin?**

The pliable face skin on the PRESTAN Professional Manikin makes it ideal for use with a Pocket Mask.

### **Can you use a Pocket Mask with a BVM on the new PRESTAN Professional Manikin?**

You can use either a Pocket Mask alone or a Pocket Mask with a BVM on the PRESTAN Professional Manikin.

### **The CPR Rate Monitor lights on my adult/child manikin are not working properly.**

There are a few things to check when your monitor lights are malfunctioning:

1. Make sure you are compressing fully, you should hear the clicker when fully compressed.
2. Ensure two AA batteries are installed in the battery compartment behind the left shoulder of the manikin. Replace batteries and recheck.
3. The clicker, which drives the monitor lights, may be malfunctioning. Contact your distributor for a replacement clicker.

### **How do you replace the batteries?**

The compartment for the batteries is in the CPR rate monitor, located on the upper left side of the back of the manikin. Once the batteries are replaced, the lid is easily re-inserted by lining up the two tabs on the top of the compartment and pushing the lid into place.

### **I have a 4-Pack of Adult/Child Manikins. What is the proper way to pack them into the carry bag?**

Please refer to the PRESTAN Professional Manikin Repacking Help Guide in the PRESTAN Resource Center.



# Prestan Professional Manikins

## CHILD MANIKIN

### USE AND CARE INSTRUCTION SHEET

**THANK YOU** for buying the **Prestan Professional Child Manikin!**

Please read through these instructions and keep them with your manikin(s).



*Prestan Professional Child Manikin*

*Prestan Professional Child Manikin 4-Pack*

For future reference, make note below of the Prestan Authorized Distributor where you purchased your manikins. Call your Prestan Authorized Distributor for product questions, reordering parts/accessories, or warranty issues:

\_\_\_\_\_  
Prestan Authorized Distributor

\_\_\_\_\_  
Distributor Phone

\_\_\_\_\_  
Purchase Date



## MODELS COVERED BY THIS INSTRUCTION SHEET

PRODUCT # (MODEL)	MANIKIN PACK	MANIKIN QTY/SIZE	INCLUDED CPR RATE MONITOR(S) *	INCLUDED CARRY CASE	INCLUDED FACE-SHIELD/ LUNG-BAGS
PP-CM-100M PP-CM-100M-MS PP-CM-100M-DS	SINGLE	1 CHILD	YES	SINGLE CASE	10-PACK
PP-CM-100 PP-CM-100-MS PP-CM-100-DS	SINGLE	1 CHILD	NO	SINGLE CASE	10-PACK
PP-CM-400M PP-CM-400M-MS PP-CM-400M-DS	4-PACK	4 CHILD	YES 1 PER MANIKIN	4-PACK CASE w/strap	50-PACK
PP-CM-400 PP-CM-400-MS PP-CM-400-DS	4-PACK	4 CHILD	NO	4-PACK CASE w/strap	50-PACK
PP-FM-300M PP-FM-300M-MS PP-FM-300M-DS	COLLECTION **	1 ADULT, 1 CHILD, 1 INFANT	YES 1 PER MANIKIN	COLLECTION CASE w/strap	10-PACK PER MANIKIN
PP-FM-500M PP-FM-500M-MS PP-FM-500M-DS	FAMILY PACK **	2 ADULT, 1 CHILD, 2 INFANT	YES 1 PER MANIKIN	FAMILY PACK CASE w/strap	10-PACK PER MANIKIN

### REGARDING THE ABOVE CHART AND THE CONTENTS OF YOUR ORDER:

\* The **CPR Rate Monitor** (*Rate Monitor, CPR Monitor, Monitor*) is a patented feedback feature for **Prestan Professional Manikins** that consists of an LED light bank that responds to compressions (see the section on the CPR Rate Monitor). The CPR Rate Monitor (*requires two (2) 'AA' batteries; not included*) is pre-installed in the left shoulder of the Child manikin. If you purchased the Prestan Professional Manikin without the CPR Rate Monitor and later decide you would like one, it may be ordered separately from your Prestan Authorized Distributor and easily installed.

\*\* **The Prestan Collection and Prestan Family Pack** also include **Prestan Professional Adult and Infant Manikins**.

**Available Skin Tones:** Any of the above models may be available in one of three Skin Tones:

- A model number without a suffix signifies our original Light Skin Tone
- A model number with a “-MS” at the end (i.e. PP-AM-100M-MS) signifies a Medium Skin Tone
- A model number with a “-DS” at the end (i.e. PP-AM-400-DS) this signifies Dark Skin tone

**Black Felt Dots** are included on a strip for optional use with Child Manikins. These may be adhered to the underside of the manikin torso to help prevent sliding on slippery floor surfaces.

If anything is missing, please contact the Prestan Authorized Distributor where you made your purchase.

# Prestan Professional CHILD MANIKIN



## CLEANING

- The face and the body skin of the Prestan® Professional Manikin is made out of the same material and can be cleaned in the same manner.
- If the material becomes dirty, clean with a mixture of soap and water. If the area is extremely dirty, common household cleaners such as Formula 409®, Windex® or Vim® may be used. Non-bleach wipes such as Clorox® or Lysol® disinfecting wipes are convenient and work well. It is recommended that the use of these cleaners be done cautiously with minimum amount of abrasion to insure the life of the skin.
- A melamine foam eraser such as Mr. Clean® Magic Eraser® or Scotch-Brite™ Easy Erasing Pad may be used cautiously for stains.
- Cleaners containing wax, oil, or citrus (d-Limonene) are not recommended.
- Any cleaner not listed/recommended above may be tested in a non-visible area of the manikin. Open the manikin's torso chest and test the cleaner on the underside. Monitor for 24 hours. Should there be an undesirable reaction, the cleaner should not be used on the manikin.
- The face skin may also be sanitized with alcohol wipes or soaked in a solution of 1/4 cup bleach mixed with one gallon of water for 10 minutes. Between student uses, the instructor (or student) may clean the faces off with an alcohol wipe as an extra measure of safety.
- Don't forget to wipe the upper chest foam and skin in the same way in order to sanitize the inside of the manikin as well.
- Replacement skins for the face and torso may be purchased from your Prestan Authorized Distributor.

## STORAGE

- Store the Prestan Professional Manikin(s) in the nylon carry bag(s).
- The manikin head should be removed for protection of the facial features, specifically the nose.
- For added protection, store the manikin inside the carry bag, and place the carry bag inside the original shipping box.
- Do not stack the manikins unless they are inside the original shipping box or other protective container.
- The nylon carry bag for the Prestan Professional Manikin(s) is not meant to store or transport belongings (i.e. books) in addition to the manikin(s) - please use the carry bag only for the intended manikin(s) to prevent damage to the bag.
- Store the manikin(s) in a cool, dry area, at temperatures between 50°-70° F and 50% relative humidity.
- For storage longer than 1 month, it is recommended that the batteries be removed from the CPR Rate Monitor (if the manikin has this feature).

## CPR FEATURES

### FACE-SHIELD/LUNG-BAG FOR THE VISIBLE CHEST RISE

- The Face-Shield/Lung-Bag (PP-CLB-10, PP-CLB-50) combines the Face Shield and the Lung Bag into a single, t-shaped airway for the manikin. Air goes in through the Face-Shield opening to inflate the Lung-Bag, which provides the visible chest rise in response to administered CPR breaths.
- Face-Shield/Lung-Bags are sized specifically to fit each Prestan Professional Manikin (Adult/Child/Infant) and are not interchangeable among the different manikin sizes.
- The Face-Shield portion covers the mouth of the manikin. It stays in place by hooking the ends onto buttons located at each side of the head under the ears.
- The Lung-Bag portion is placed on the manikin chest (under the torso skin) and fills with air from administered CPR breaths. This provides a visual chest rise for the student.
- Face-Shield/Lung-Bags are a consumable item and should be changed depending on how they are used:
  - If breaths are being administered by mouth, either directly or via rescue mask adaptor, the Face-Shield/Lung-Bag should be changed between classes due to accumulation of bacteria-causing moisture inside the neck and bag. This change is advised for both sanitary and performance purposes.
  - If breaths are being administered by a manual resuscitator (BVM/Ambu bag), there is no need to change the Face-Shield/Lung-Bag.
- When a manikin is being shared by more than one student, it is recommended that each student be provided with their own sanitary and disposable mouth protector:
  - If direct mouth contact is being used to give CPR breaths, students should be supplied with their own Face Shield (PP-CFS-50) (sold separately and disposable). The fitted Face Shield can be placed over the already-installed Face-Shield/Lung-Bag on the mouth of the manikin when it is that student's turn to give breaths. Generic, non-fitted face shields may also be used, but may slide around on the mouth and possibly cover the mouth opening if not held in place.
  - If rescue masks are being used to give CPR breaths, students should be supplied with their own Rescue Mask Adaptor (10076-PPA, 10076-PPA-50) (sold separately and disposable). The adaptors can be inserted into any standard mask when it is that student's turn to give breaths.

### CPR CLICKER

- The Clicker is the round disk in the center of the manikin's back.
- The Clicker works with compressions to provide an audible "click" when compression depth reaches 2" (the compression is able to continue to a 2.4" depth).
- The Clicker sends a signal to the CPR Rate Monitor (if the manikin has this feature) to allow it to provide feedback on compression speed (see CPR Rate Monitor – Guide)

# Prestan Professional CHILD MANIKIN



## CPR RATE MONITOR - GUIDE

The CPR Rate Monitor (*requires two (2) 'AA' batteries; not included*) is a patented feedback feature that comes pre-installed in the shoulder area of the Prestan Professional Child Manikin. If you have purchased a Prestan Professional Child Manikin without the CPR Rate Monitor and later decide you want this feature – it may be purchased and installed separately by contacting your Prestan Authorized Distributor.

The Prestan Professional Training Manikin CPR Rate Monitor has a unique way of monitoring both the depth of compressions and the rate of compressions:

At the first compression all four of the lights in the upper left shoulder will come on, indicating that the lights are working. (Figure 1)

If the lights do not light, make sure that the depth of compression is deep enough (you will hear a clicking sound). The lights will not work if the student is not compressing the manikin correctly.

Once a student begins chest compressions, the yellow light and the green lights will go out and, from zero to less than 60 compressions per minute, the red light will be on. (Figure 2)

As the student increases the rate of compressions and reaches 60 compressions per minute, a yellow light will come on until the student reaches 80 compressions per minute. (Figure 3)

As the student increases the rate of compressions and reaches 80 compressions per minute, the first green light will come on until the student reaches 100 compressions per minute. (Figure 4)

When the student reaches 100 compressions per minute, a second green light comes on, indicating that the recommended rate has been reached. (Figure 5)

If the student slows down, one of the green lights will go out indicating that the student needs to increase the rate of compressions.

Should compressions exceed 120 per minute, a yellow light will flash rapidly indicating the recommended cap has been reached. (Figure 6)

Always try to maintain the recommended speed between 100 and 120 compressions per minute as indicated by the 2 green lights.

If the student's depth of compression is not correct, at any time, all the lights will go off and the red light will blink.



Figure 1

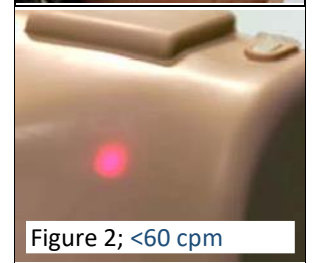


Figure 2; <60 cpm

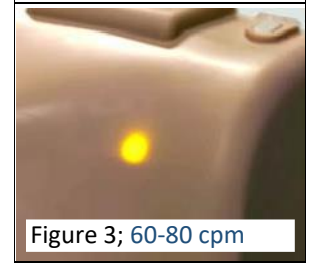


Figure 3; 60-80 cpm

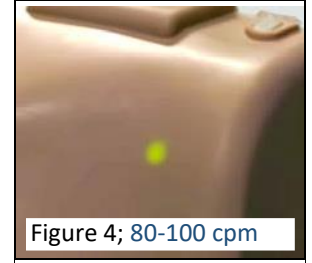


Figure 4; 80-100 cpm

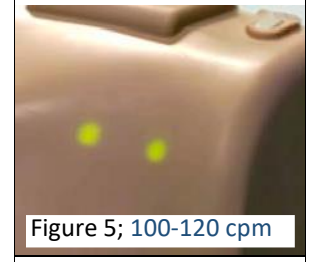


Figure 5; 100-120 cpm

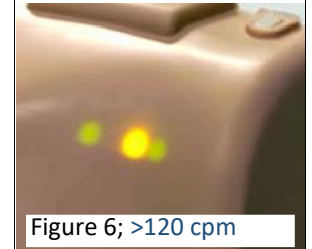


Figure 6; >120 cpm

## FACE-SHIELD/LUNG-BAG INSTALLATION

1. Unlatch the torso of the Prestan Professional Manikin by popping the 'tabs' located at the top of the shoulders (Figure 1). Carefully lift the torso frame open by the neck.  
**Note: Do not pull on tabs (past popping the latch). Doing so may break the tabs or stretch out the frame over time, impairing the latching function.**



Figure 1

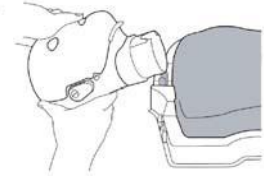


Figure 2

2. Attach the head to the torso by placing the neck of the head onto the two spindles on the neck portion of the torso (Figure 2).

3. Fold the Lung-Bag portion of the Face-Shield/Lung-Bag (Figures 3a-3d):

- The Face-Shield/Lung-Bag has four 'dotted lines' printed on one side of the bag (along with an oval)
- Using the four dotted lines, fold the Face-Shield/Lung-Bag into fourths, following the diagram below

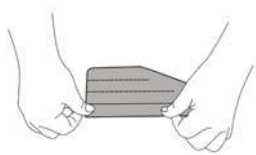


Figure 3a

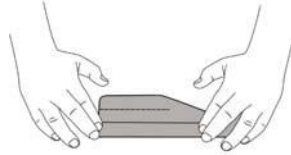


Figure 3b

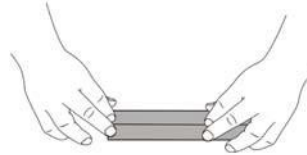


Figure 3c

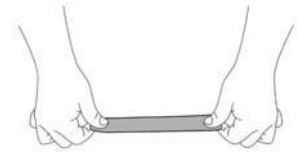


Figure 3d

4. Tilt back the head of the manikin (Figure 4).

5. Insert the folded Lung-Bag into the mouth of the manikin (Figure 5).

6. Push the Lung-Bag into the mouth until the bag exits through the neck of the manikin (Figure 6).

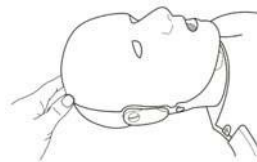


Figure 4

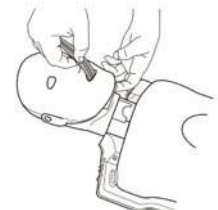


Figure 5

7. Grasp the Lung-Bag and finish pulling it through the neck of the manikin (Figure 7).

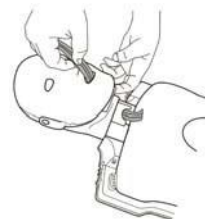


Figure 6

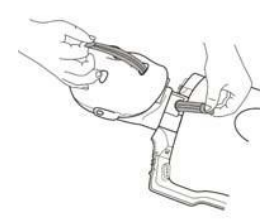


Figure 7

8. Attach the Face-Shield tabs to the 'buttons' located on the side of the manikin head (Figure 8).

9. Lightly pull down on the Lung-Bag to help open the mouth hole on the Face-Shield.

10. Then position the Lung-Bag on top of the compression plate (the hard plastic circular piece found on top of the torso foam core) with the circular imprint on the Lung-Bag aligning with the compression plate (Figure 9).

11. With proper positioning, the neck of the Face-Shield/Lung-Bag will have slack. Make sure it is not twisted.

12. Close the torso and secure the latch by pushing on the shoulder tabs until they snap into place.



Figure 8

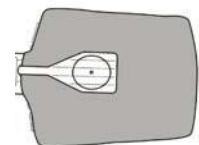


Figure 9



**PRESTAN®**

# Prestan Professional Manikins

## Repacking the Manikin Carry Bags

In order to preserve the life of your Prestan Manikins and protect protruding features (such as the nose), it is helpful to properly repack them in their carry bag.

Here are photographs of the specific packaging to assist you:

Prestan Professional Adult (or Child) Manikin 4-Pack



Prestan Professional Infant Manikin 4-Pack



Prestan Professional Family Pack

Prestan Professional Collection

Prestan Professional Family Pack



Prestan Professional Collection





PRESTAN®

# Prestan Professional Manikins

## Troubleshooting - CPR Rate Monitor Lights Not Working Properly

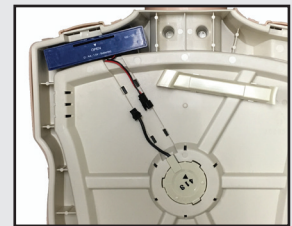
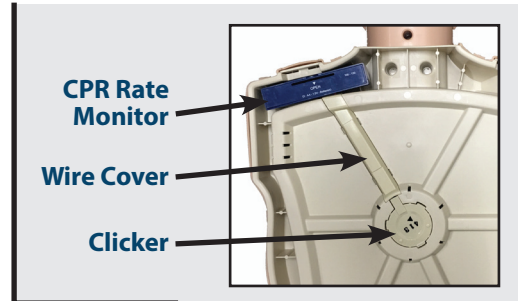
There are 2 working parts in a Prestan Professional Monitored Manikin: the mechanically-operated **Clicker** and the battery-operated **CPR Rate Monitor** (Monitor/Lights). The Monitor lights are powered by a small current, generated by the Clicker. The 2 parts connect to each other as shown in the photos (right).

If the monitor lights are not working properly, follow the troubleshooting steps in the order below for the best results.

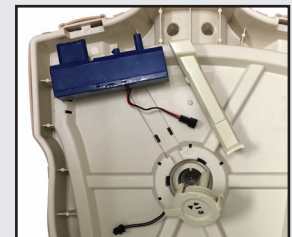
*Note: For the Child or Infant manikins, if steps 1 and 2 do not fix the problem, go directly to the chart at bottom of this page for replacement part referral.*

*Note: The Monitor for the Infant manikin is an easily removable cartridge located beneath the cover in the diaper area. There are no wire connections.*

- 1. Chest compressions must be deep enough to signal the Monitor**
  - > Compress the chest until the click, from the Clicker at 2"-2.4" depth, is audible.
- 2. Batteries may be missing, need replacing, or may not be correctly inserted in the CPR Rate Monitor**
  - > Install or replace new batteries into the Monitor - requires 2-AA (1.5V) batteries. It is not necessary to remove the monitor to replace batteries in the Adult and Child manikins. The Infant manikin's Monitor must be removed from the cavity (under the cover in the diaper area) to change the batteries.
  - > If the Monitor's problem is that ALL lights come on at once, this usually indicates that the batteries are almost depleted and replacement is the correct solution.
- 3. Clicker and Monitor wires may have disconnected from each other (rare)**
  - > On the manikin's back, remove the Wire Cover (see photos right). Disconnect and reconnect the wiring to insure proper Clicker-to-Monitor communications.
- 4. Clicker may be clogged, interrupting the signal to the Monitor (common)**
  - > Remove the Clicker and lightly blow out any accumulated plastic dust. Then replace the Clicker and reconnect the Clicker wires to the Monitor wires.
- 5. Either the Clicker or the Monitor needs to be replaced**
  - > If available, exchange Clickers and Monitors with working manikins to determine whether the Clicker or the Monitor needs to be replaced. If you don't have a second manikin to swap parts with, refer to the chart below for the more common solution.
  - > Contact your Prestan Authorized Distributor (where you purchased your manikins) to obtain the replacement part. If your manikin is within the 3-year warranty period, there will be no charge to you - otherwise, your Prestan Authorized Distributor will assist you with pricing for the replacement part.



Remove the Wire Cover to expose the Clicker and Monitor wires. Disconnect the wires from each other by gently squeezing the connectors and pulling apart.



The Wire Cover and Clicker easily pop out by inserting a small flat-head screwdriver into the slots. For the Monitor, there is a screw next to the monitor lights in the front of the manikin to release it from the shoulder cavity (Phillips-head screwdriver needed).

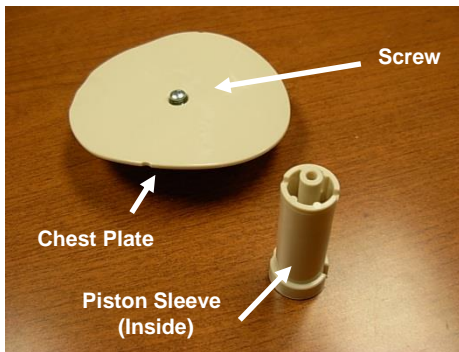
Manikin	Clicker Part #	Monitor Part #	Replacement Part Notes / Suggested Action
ADULT	RPP-ACLICK-1	RPP-AMON-1	Choosing between the Clicker and the Monitor (if part swapping to confirm is not an option): it is 80-90% more likely that the Clicker is the part that needs to be replaced.
CHILD	RPP-CCLICK-1	RPP-CMON-1	Rarely has problems so no patterns noted - the Monitor would be the likely replacement part.
INFANT	RPP-ICLICK-1	RPP-IMON-1	A Monitor (cartridge) is almost always the necessary replacement part for the Infant Manikin.

# Prestan Professional Manikins

## Replacing the Piston Sleeve and Chest Plate

**Tools required: a small Slotted style screwdriver and a Phillips screwdriver / a cordless screwdriver is optional**

- 1) Remove OLD Chest Plate** – If still attached, remove OLD Chest Plate using a Phillips screwdriver and discard both Chest Plate and Screw (Figure #1).



Replacement Parts

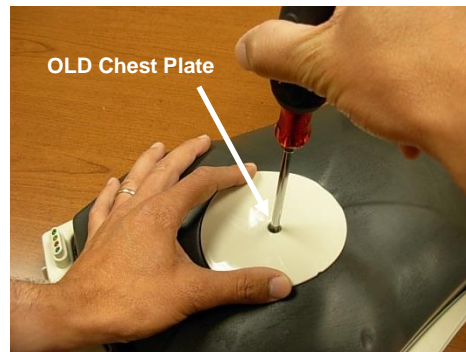


Figure #1

- 2) Remove the Wire Cover** – There are four snap tabs, two on each side of the Wire Cover. Using a small, slotted screwdriver, press in and lift up on two tabs along the same side of the Wire Cover. (Figures #2, #3 & #4)

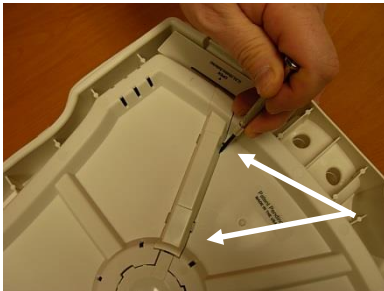


Figure #2

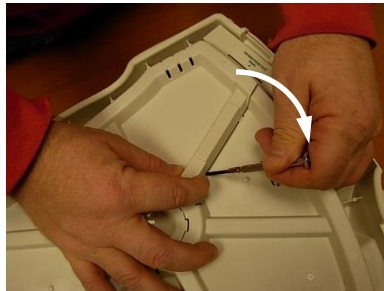


Figure #3

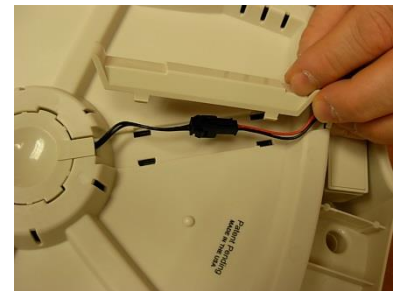


Figure #4

- 3) Remove the Clicker** - There are three tabs on the 'Clicker' that hold it in place. Using your screw driver, carefully press in and lift up on each tab while gently lifting up on the wire. (Figures #5 & #6) After the 3<sup>rd</sup> tab is unhooked, lift out the Clicker (Figure #7).



Figure #5

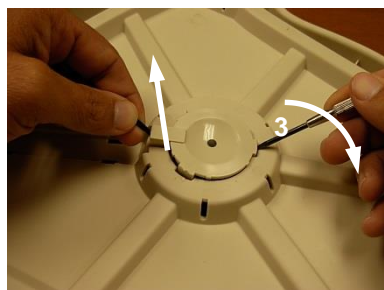


Figure #6



Figure #7

## Replacing the 'Piston Sleeve and Chest Plate' (Continued)

- 4) Remove the Spring and OLD Piston Sleeve** – Remove the Piston Spring (Figure #8) and the OLD Piston Sleeve (Figure #9). Discard the OLD Piston Sleeve.

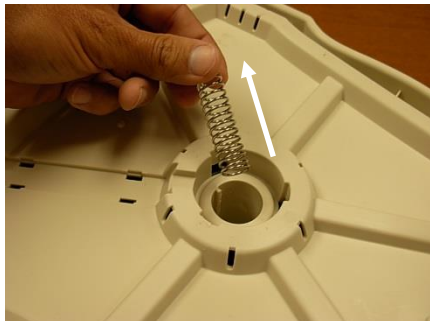


Figure #8

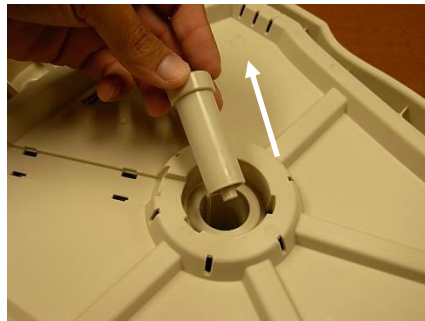


Figure #9

- 5) Insert the NEW Piston Sleeve and Spring** – Insert the NEW Piston Sleeve (Figure #10) making sure the slot on the sleeve is aligned with the rib in the base. Insert Spring (Figure #11).

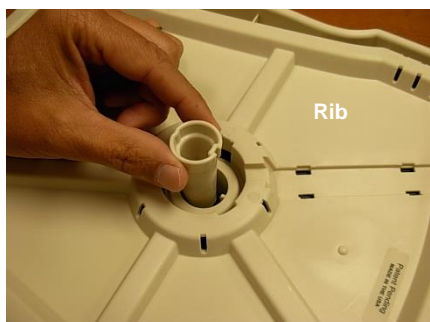


Figure #10

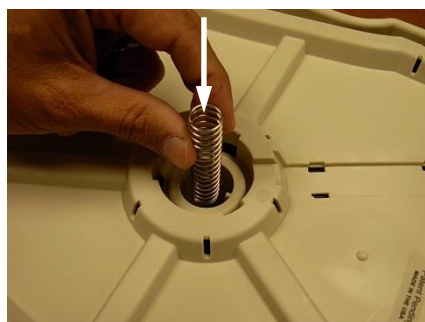


Figure #11

- 6) Reinsert the Clicker** – Align the Clicker with the hole, and snap it down into the hole, being careful not to pinch the wire. (Figure #12) Press firmly on each of the 3 tabs to insure they are engaged (Figure #13)

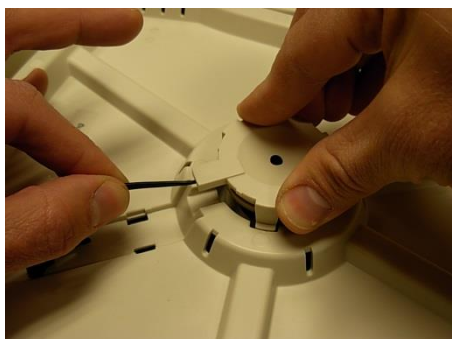


Figure #12

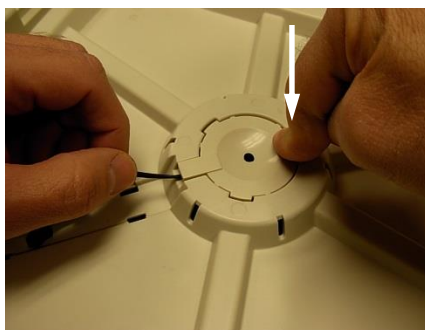


Figure #13

## Replacing the 'Piston Sleeve and Chest Plate' (Continued)

- 7) Reattach the Wire Cover** – Align wires down the center of channel for the Wire Cover. If needed, make a loop with any excess wire. (Figure #14) Snap the Wire Cover into place by pressing firmly over 4 snaps (Figure #15)

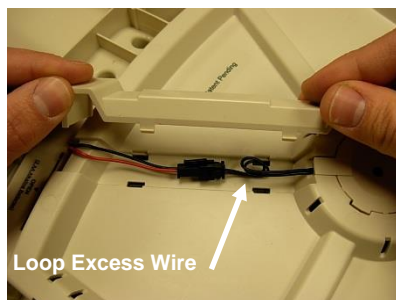


Figure #14



Figure #15

- 8) Attach NEW Chest Plate** – Align the NEW Chest Plate w/screw already inserted making sure notch on plate is aligned with the notch on the foam (Figure #16). While pushing down on the foam (approx. ½ inch), tighten screw till fully seated (Figure #17) (*Here is where a cordless screwdriver may be helpful*).

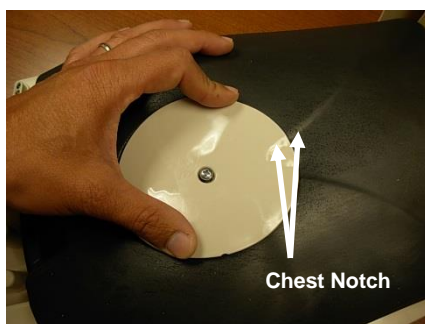
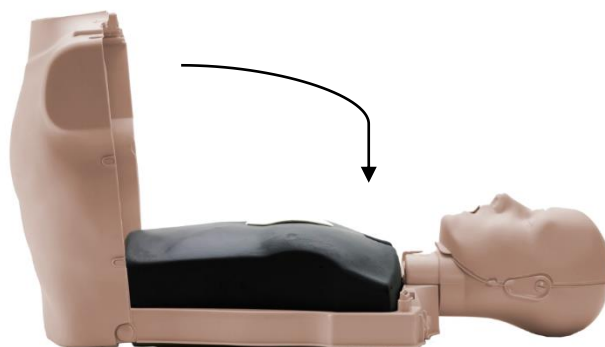


Figure #16



Figure #17

- 9) Close Manikin Torso**





## Prestan Professional Adult Manikin Cleaning the Clicker Mechanism

**Before you start: Newer manikin clickers have been treated with a seal to help keep the insides clean. Here is how to tell if your Clicker is sealed and you will not be able to clean inside the Clicker:**

- The Clicker has a Black Triangle printed on it
- The Clicker has printed on it a three digit date code (first two digits represent the week / last digit represents the year [i.e. 271 = 27th week of 2011]) and the date code is 371 (adult) / 421 (child) / 361 (infant) - OR LATER (newer).

**If your Clicker meets either of the above criteria, you may try wiping it with an alcohol pad to see if this works. If not, please contact your distributor to order a replacement Clicker.**

**Occasionally small plastic shavings will invade the clicker mechanism, blocking the electrical contact in the circuit. When this occurs, the LED feedback monitor lights may not work properly. As opposed to ordering a new clicker, the current clicker (the disk in the center of the manikin's back) may be cleaned to determine if this will fix the problem.**

### Cleaning the Clicker - what you will need:

Phillips-head screwdriver / Flat-head screwdriver / Alcohol wipe or alcohol and cotton swab

### Please follow the steps below:

1. **Remove the Wire Cover:** there are four snap tabs, two on each side of the Wire Cover. Using a small, flat-head screwdriver, press in and lift up on two tabs along the same side of the Wire Cover. Squeeze the connectors to disconnect the Clicker wires from the Monitor wires.
2. **Remove the Clicker:** there are three tabs on the Clicker that hold it in place. Using a flat-head screwdriver, carefully press in and lift up on each tab while gently lifting up on the wire (Figure 1). After the 3rd tab is unhooked, lift out the Clicker, leaving the Spring down in the hole (Figures 2 & 3). Continued next page...

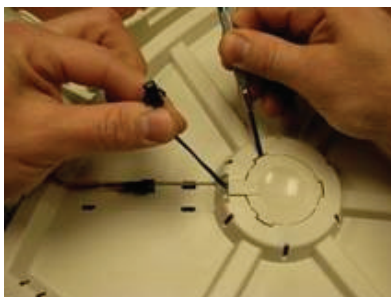


Figure 1

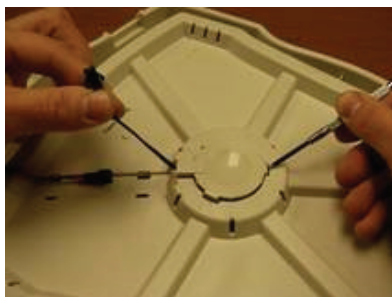


Figure 2



Figure 3

3. **Disassemble the Clicker:**

- a. Stand the clicker upright and remove the three screws using a Phillips-head screwdriver.
- b. Remove the top of the Clicker. You will see a printed circuit board (PCB) with 2 metal dome switches on top of it.
- c. Using a small flat-head screwdriver, lift the dome off of the PCB and set it aside.

4. **Clean the Clicker:**

- a. Gently clean the PCB with a small amount of alcohol and a cotton swab.
- b. Allow to dry.

5. **Resassemble the Clicker:**

- a. Replace the domes, taking care to put them back in the correct orientation sitting on top of the gold pads (Figures 4 & 5).

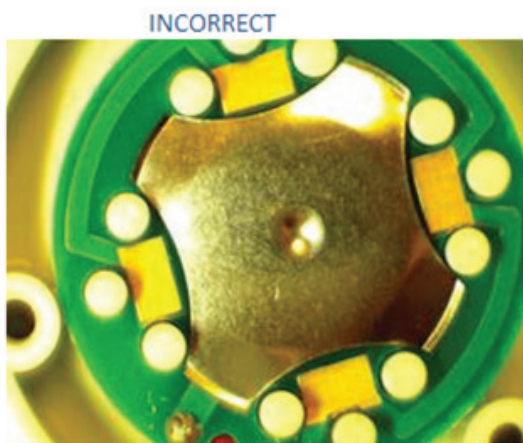


Figure 4



Figure 5

- b. Place the top section of the Clicker back onto the dome section, rotating the top until the tab aligns with the wires and the 2 sections fit together. The proper fit leaves a very small amount of space between the two sections.
- c. Replace the screws.
- d. Reassemble back into the manikin.

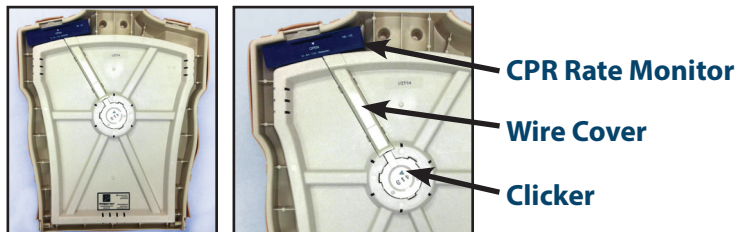
**If the above steps do not fix the problem, then you will need a new Clicker. Please contact your distributor or Prestan.**



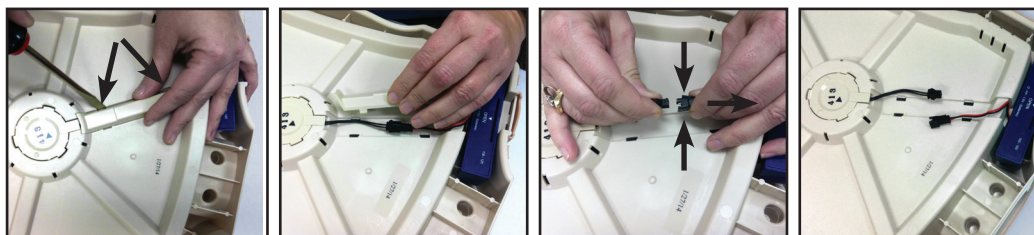
# Prestan Professional Manikins

## Replacing a Prestan Adult or Child CPR Rate Monitor

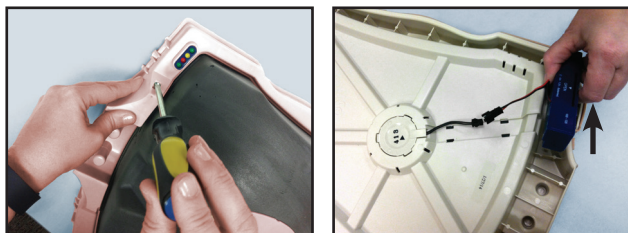
To replace the CPR Rate Monitor (Monitor) on the Adult/Child Manikin, you will need a small flat-head screwdriver and a small phillips-head screwdriver. **To facilitate the instruction procedure, please note the three parts shown at right:**



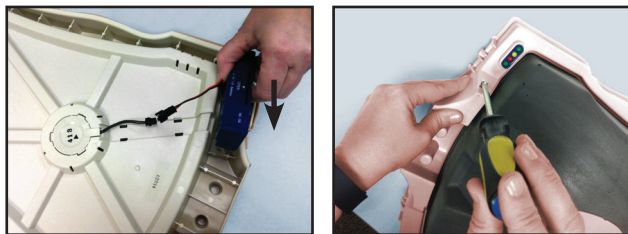
Remove the Wire Cover by gently inserting the flat-head screwdriver into the side slots and lifting upward until the cover easily pops off. Disconnect the Monitor from the Clicker by squeezing, then pulling apart the two wires at the connection.



Turn the manikin over and open the clamshell torso to expose the Monitor's lights. Using the phillips-head screwdriver, remove the front screw holding the Monitor in place. The Monitor will drop out of the backside of the manikin.



Insert the new CPR Rate Monitor into the back shoulder. The Monitor's LED lights should be visible through the front opening. Secure with screw in front.

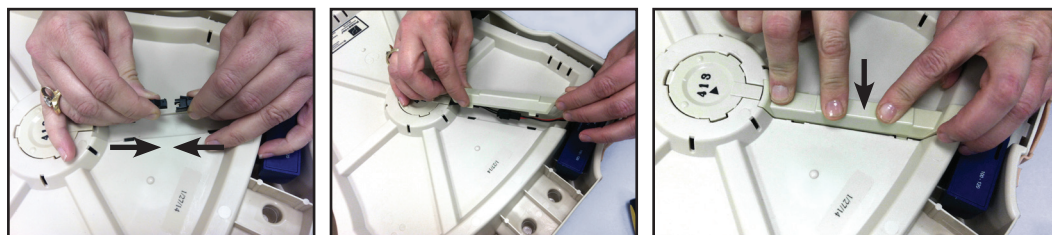


**Is your CPR Rate Monitor not BLUE?**

BLUE is an upgrade to the Prestan CPR Rate Monitor. It includes an additional feature: a yellow warning light is flashed if the 120 compression upper limit is exceeded by the student (per the 2015 Guidelines).

Your existing Prestan Manikins can be easily updated with BLUE CPR Rate Monitors - Contact your Prestan authorized distributor for details!

Re-connect the Monitor and Clicker wiring. Replace the Wire Cover over the connected wires, being careful that all wiring is tucked in before snapping it in place.



## TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE ISSUES OR COMMENTS	SOLUTIONS
<b>CPR Rate Monitor</b>		
<p>Cannot find CPR Rate Monitor (Monitor) – no lights in the shoulder area</p>	<ul style="list-style-type: none"> <li>You have purchased a Prestan Professional Child Manikin without the CPR Rate Monitor</li> </ul>	<ul style="list-style-type: none"> <li>If you were expecting a monitored manikin, check with the distributor where you purchased the manikin to insure you received what you paid for</li> </ul> <p>Note: CPR Rate Monitors may be purchased separately from your Prestan Authorized Distributor</p>
<p>CPR Rate Monitor (Monitor) lights are not working properly</p> <p><i>To help understand how the Monitor works, please note that the Monitor lights are powered by a small current generated by the Clicker</i></p> <p><i>Please follow the troubleshooting tips at right in the order they are listed for best results</i></p>	<ul style="list-style-type: none"> <li>Chest compressions are not deep enough to signal Monitor</li> <li>Batteries are not installed, need replacing or are not inserted correctly in the CPR Rate Monitor</li> <li>The Clicker-Monitor connection is broken</li> <li>Clicker may be clogged with plastic dust, interrupting the signal to the Monitor</li> <li>Either the Clicker or the Monitor needs to be replaced</li> </ul>	<ul style="list-style-type: none"> <li>Compress the chest until the click is audible from the Clicker at 2"-2.4"</li> <li>Install or replace batteries into Monitor (back of manikin, left shoulder area) - requires 2-AA (1.5V) batteries</li> <li>On the manikin's back, remove the long skinny Wire Cover between the Clicker and Monitor – squeeze connectors to disconnect the wires then reconnect to insure Clicker-Monitor communications</li> <li>Remove Clicker and blow out dust – then replace Clicker and reconnect with Monitor</li> <li>Exchange Clickers and Monitors with working manikins (if available) to determine whether the Clicker (RPP-CCLICK1) or the Monitor (RPP-CMON-1) needs to be replaced*</li> </ul>
<p>CPR Rate Monitor (Monitor) lights are all on</p>	<ul style="list-style-type: none"> <li>Batteries are running low</li> </ul>	<ul style="list-style-type: none"> <li>Replace batteries</li> </ul>
<p>CPR Rate Monitor (Monitor) red light is blinking</p>	<ul style="list-style-type: none"> <li>This is normal after replacing batteries or manikin is paused - may blink up to 16 times to indicate ready status</li> </ul>	<ul style="list-style-type: none"> <li>Commence or resume compressions - blinking will stop and feedback rate signals will begin</li> </ul>

\* Contact your Prestan Authorized Distributor to either purchase the replacement part or receive it at no charge if the manikin is within Prestan's 3-year warranty period and is a qualifying warranty repair.

## TROUBLESHOOTING GUIDE

(Continued)

SYMPTOM	POSSIBLE ISSUES OR COMMENTS	SOLUTIONS
<b>Torso and Face-Shield/Lung-Bag</b>		
<p>Cannot hear a click when doing compressions</p>	<ul style="list-style-type: none"> <li>• Hand position and/or compression angle may be incorrect</li> <li>• Compressions may not be deep enough to activate the clicker</li> <li>• Clicker may be broken</li> </ul>	<ul style="list-style-type: none"> <li>• Confirm correct hand placement and compress straight down from directly above the manikin</li> <li>• Compress between 2 and 2.4 inches depth</li> <li>• Replace Clicker in back of manikin (RPP-CCLICK-1)*</li> </ul>
<p>Chest will not rise when breaths are given</p>	<ul style="list-style-type: none"> <li>• Head is not tilted back enough to open airway</li> <li>• Face Shield is not attached</li> <li>• Lung Bag may be damaged or torn (Note: there are holes in the Child Lung Bag necks by design to allow deflation)</li> <li>• Lung Bag is not lying flat or properly positioned over the compression plate and/or neck of bag is twisted</li> <li>• Lung Bag has accumulated moisture in the neck, which may cause the sides to stick together and prevent air passage</li> </ul>	<ul style="list-style-type: none"> <li>• Push on forehead and/or lift at chin to tilt head back enough to open airway</li> <li>• Attach Face Shield at “buttons” on the side of the manikin’s head below ears</li> <li>• Blow into the Face-Shield/Lung-Bag while it is outside the manikin to make sure it inflates properly – if not, discard and use another Face-Shield/Lung-Bag</li> <li>• Revisit instructions for installing a Face-Shield/Lung-Bag earlier in this manual</li> <li>• A new Face-Shield/Lung-Bag should be installed after each class, or more often if needed due to excessive moisture buildup</li> </ul>
<p>Manikin torso will not stay closed</p> <p>Manikin torso opens when breaths are given</p>	<ul style="list-style-type: none"> <li>• Tabbed latches at shoulders may not be securely closed</li> <li>• Chest frame may be stretched from improper opening of torso</li> <li>• Tabbed latches at shoulders are broken from improper opening of torso</li> </ul>	<ul style="list-style-type: none"> <li>• Close tabs at shoulders – a snap will be heard when shoulder tabs are properly latched</li> <li>• Open torso and attempt to reverse stretched out frame by pushing it in the opposite direction</li> <li>• Torso Frame needs to be replaced (RPP-CFRAME-1)*</li> </ul>

## TROUBLESHOOTING GUIDE

(Continued)

SYMPTOM	POSSIBLE ISSUES OR COMMENTS	SOLUTIONS
<b>Torso</b>		
Rattling in chest	<ul style="list-style-type: none"> <li>• Compression Sleeve may be broken</li> </ul>	<ul style="list-style-type: none"> <li>• Replace sleeve in chest with part RPP-CCOM-1 (compression assembly includes chest plate, spring, sleeve and clicker)*</li> </ul>
Chest Plate is broken	<ul style="list-style-type: none"> <li>• Typically results from a combination of incorrect (not centered) hand placement, compression angle not straight down from directly above and/or overzealous compression force</li> </ul>	<ul style="list-style-type: none"> <li>• Replace chest plate with RPP-CCOM-1 (compression assembly includes chest plate, spring, sleeve and clicker)*</li> </ul>

\* Contact your Prestan Authorized Distributor to either purchase the replacement part or receive it at no charge if the manikin is within Prestan's 3-year warranty period and is a qualifying warranty repair.

# PRESTAN Professional Adult/Child Manikins

## Frequently Asked Questions



### **Can you use a Pocket Mask with the new PRESTAN Professional Manikin?**

The pliable face skin on the PRESTAN Professional Manikin makes it ideal for use with a Pocket Mask.

### **Can you use a Pocket Mask with a BVM on the new PRESTAN Professional Manikin?**

You can use either a Pocket Mask alone or a Pocket Mask with a BVM on the PRESTAN Professional Manikin.

### **The CPR Rate Monitor lights on my adult/child manikin are not working properly.**

There are a few things to check when your monitor lights are malfunctioning:

1. Make sure you are compressing fully, you should hear the clicker when fully compressed.
2. Ensure two AA batteries are installed in the battery compartment behind the left shoulder of the manikin. Replace batteries and recheck.
3. The clicker, which drives the monitor lights, may be malfunctioning. Contact your distributor for a replacement clicker.

### **How do you replace the batteries?**

The compartment for the batteries is in the CPR rate monitor, located on the upper left side of the back of the manikin. Once the batteries are replaced, the lid is easily re-inserted by lining up the two tabs on the top of the compartment and pushing the lid into place.

### **I have a 4-Pack of Adult/Child Manikins. What is the proper way to pack them into the carry bag?**

Please refer to the PRESTAN Professional Manikin Repacking Help Guide in the PRESTAN Resource Center.



# Prestan Professional Manikins

## INFANT MANIKIN

### USE AND CARE INSTRUCTION SHEET

THANK YOU for buying the **Prestan Professional Infant Manikin!**

Please read through these instructions and keep them with your manikin(s).



*Prestan Professional Infant Manikin*



*Prestan Professional Infant Manikin 4-Pack*

For future reference, make note below of the Prestan Authorized Distributor where you purchased your manikins. Call your Prestan Authorized Distributor for product questions, reordering parts/accessories, or warranty issues:

\_\_\_\_\_  
Prestan Authorized Distributor

\_\_\_\_\_  
Distributor Phone

\_\_\_\_\_  
Purchase Date



## MODELS COVERED BY THIS INSTRUCTION SHEET

PRODUCT # (MODEL)	MANIKIN PACK	MANIKIN QTY./SIZE	INCLUDED CPR RATE MONITOR(S) *	INCLUDED CARRY CASE	INCLUDED FACE-SHIELD/ LUNG-BAGS
PP-IM-100M PP-IM-100M-MS PP-IM-100M-DS	SINGLE	1 INFANT	YES	SINGLE CASE	10-PACK
PP-IM-100 PP-IM-100-MS PP-IM-100-DS	SINGLE	1 INFANT	NO	SINGLE CASE	10-PACK
PP-IM-400M PP-IM-400M-MS PP-IM-400M-DS	4-PACK	4 INFANT	YES 1 PER MANIKIN	4-PACK CASE w/strap	50-PACK
PP-IM-400 PP-IM-400-MS PP-IM-400-DS	4-PACK	4 INFANT	NO	4-PACK CASE w/strap	50-PACK
PP-FM-300M PP-FM-300M-MS PP-FM-300M-DS	COLLECTION **	1 ADULT, 1 CHILD, 1 INFANT	YES 1 PER MANIKIN	COLLECTION CASE w/strap	10-PACK PER MANIKIN
PP-FM-500M PP-FM-500M-MS PP-FM-500M-DS	FAMILY PACK **	2 ADULTS, 1 CHILD, 2 INFANTS	YES 1 PER MANIKIN	FAMILY PACK CASE w/strap	10-PACK PER MANIKIN

### REGARDING THE ABOVE CHART AND THE CONTENTS OF YOUR ORDER:

\* The **CPR Rate Monitor** (*Rate Monitor, CPR Monitor, Monitor*) is a patented feedback feature for **Prestan Professional Manikins** that consists of an LED light bank that responds to compressions (see the section on the CPR Rate Monitor). The CPR Rate Monitor (*requires two (2) 'AA' batteries; not included*) is pre-installed in the diaper area of the Infant manikin. If you purchased the Prestan Professional Manikin without the CPR Rate Monitor and later decide you would like one, it may be ordered separately from your Prestan Authorized Distributor and easily installed. Installation instructions may be found in the Resources section of [www.prestanproducts.com](http://www.prestanproducts.com).

\*\* **The Prestan Collection and Prestan Family Pack** also include **Prestan Professional Adult and Child Manikins**. These have separate Instruction Sheets that are included with the manikins or can be accessed at [www.prestanproducts.com](http://www.prestanproducts.com).

**Available Skin Tones:** Any of the above models may be available in one of three Skin Tones:

- A model number without a suffix signifies our original Light Skin Tone
- A model number with a “-MS” at the end (i.e. PP-AM-100M-MS) signifies a Medium Skin Tone
- A model number with a “-DS” at the end (i.e. PP-AM-400-DS) this signifies Dark Skin tone

If anything is missing, please contact the Prestan Authorized Distributor where you made your purchase.

## CLEANING

- The face and the body skin of the Prestan® Professional Manikin is made out of the same material and can be cleaned in the same manner.
- If the material becomes dirty, clean with a mixture of soap and water. If the area is extremely dirty, common household cleaners such as Formula 409®, Windex® or Vim® may be used. Non-bleach wipes such as Clorox® or Lysol® disinfecting wipes are convenient and work well. It is recommended that the use of these cleaners be done cautiously with minimum amount of abrasion to insure the life of the skin.
- A melamine foam eraser such as Mr. Clean® Magic Eraser® or Scotch-Brite™ Easy Erasing Pad may be used cautiously for stains.
- Cleaners containing wax, oil, or citrus (d-Limonene) are not recommended.
- Any cleaner not listed/recommended above may be tested in a non-visible area of the manikin. Open the manikin's torso chest and test the cleaner on the underside. Monitor for 24 hours. Should there be an undesirable reaction, the cleaner should not be used on the manikin.
- The face skin may also be sanitized with alcohol wipes or soaked in a solution of 1/4 cup bleach mixed with one gallon of water for 10 minutes. Between student uses, the instructor (or student) may clean the faces off with an alcohol wipe as an extra measure of safety.
- Don't forget to wipe the upper chest foam and skin in the same way in order to sanitize the inside of the manikin as well.
- Replacement skins for the face and torso may be purchased from your Prestan Authorized Distributor.

## STORAGE

- Store the Prestan Professional Manikin(s) in the nylon carry bag(s).
- For added protection, store the manikin inside the carry bag, and place the carry bag inside the original shipping box.
- Do not stack the manikins unless they are inside the original shipping box or other protective container.
- The nylon carry bag for the Prestan Professional Manikin(s) is not meant to store or transport belongings (i.e. books) in addition to the manikin(s) - please use the carry bag only for the intended manikin(s) to prevent damage to the bag.
- Store the manikin(s) in a cool, dry area, at temperatures between 50°-70° F and 50% relative humidity.
- For storage longer than 1 month, it is recommended that the batteries be removed from the CPR Rate Monitor (if the manikin has this feature).



# Prestan Professional Manikins

## Care and Cleaning Recommendations

### Cleaning:

- The face and the body skin of the Prestan Professional Manikin is made out of the same material and can be cleaned in the same manner
- If the material becomes dirty, clean with a mixture of soap and water. If the area is extremely dirty, common household cleaners such as Formula 409®, Windex® or Vim may be used. The material may also be conveniently wiped down with a Clorox® or Lysol® disinfecting wipe. It is recommended that the use of these cleaners be done cautiously with minimum amount of abrasion to insure the life of the skin.
- Don't forget to wipe the upper chest foam & skin in the same way in order to sanitize the inside of the manikin.
- The face skin may also be sanitized with alcohol wipes or soaked in a solution of 1/4 cup bleach mixed with one gallon of water for 10 minutes. Between student uses, the instructor (or student) may clean the faces off with an alcohol wipe as an extra measure of safety. Replacement face skins may be ordered from your Prestan Authorized Distributor.
- When using more than one student per manikin, we suggest each student have their own face shield which can be placed over the attached face-shield/lung-bag when administering breaths. Face shields may be ordered from your Prestan Authorized Distributor.
- Lung bags should be replaced after each class as bacterial moisture (from giving breaths) is trapped inside. Replacement lung bags may be ordered from your Prestan Authorized Distributor.

### Storage:

- Store your Prestan Professional Manikin in its original carrying case. Further literature is available on proper repacking of the manikin carry bags.
- Remove the heads from the torsos for extra protection.
- Do not stack the manikins as this may damage the noses.
- Do not store the manikins in a damp area or in a place with extreme temperatures.

## CPR FEATURES

### FACE-SHIELD/LUNG-BAG FOR THE VISIBLE CHEST RISE

- The Face-Shield/Lung-Bag (PP-ILB-10, PP-ILB-50) combines the Face Shield and the Lung Bag into a single, t-shaped airway for the manikin. Air goes in through the Face-Shield opening to inflate the Lung-Bag, which provides the visible chest rise in response to administered CPR breaths.
- Face-Shield/Lung-Bags are sized specifically to fit each Prestan Professional Manikin (Adult/Child/Infant) and are not interchangeable among the different manikin sizes.
- The Face-Shield portion covers the mouth of the manikin. It stays in place by hooking the ends onto buttons located at each side of the head under the ears.
- The Lung-Bag portion is placed on the manikin chest (under the torso skin) and fills with air from administered CPR breaths. This provides a visual chest rise for the student.
- Face-Shield/Lung-Bags are a consumable item and should be changed depending on how they are used:
  - If breaths are being administered by mouth, either directly or via rescue mask adaptor, the Face-Shield/Lung-Bag should be changed between classes due to accumulation of bacteria-causing moisture inside the neck and bag. This change is advised for both sanitary and performance purposes.
  - If breaths are being administered by a manual resuscitator (BVM/Ambu bag), there is no need to change the Face-Shield/Lung-Bag.
- When a manikin is being shared by more than one student, it is recommended that each student be provided with their own sanitary and disposable mouth protector:
  - If direct mouth contact is being used to give CPR breaths, students should be supplied with their own Face Shield (PP-IFS-50) (sold separately and disposable). The fitted Face Shield can be placed over the already-installed Face-Shield/Lung-Bag on the mouth of the manikin when it is that student's turn to give breaths. Generic, non-fitted face shields may also be used, but may slide around on the mouth and possibly cover the mouth opening if not held in place.
  - If rescue masks are being used to give CPR breaths, students should be supplied with their own Rescue Mask Adaptor (10076-PPA, 10076-PPA-50) (sold separately and disposable). The adaptors can be inserted into any standard mask when it is that student's turn to give breaths.

### CPR CLICKER

- The Clicker is the round disk in the center of the manikin's back, under the infant skin and foam piece.
- The Clicker works with compressions to provide an audible "click" when compression depth reaches 2" (the compression is able to continue to a 2.4" depth).
- The Clicker sends a signal to the CPR Rate Monitor (if the manikin has this feature) to allow it to provide feedback on compression speed (see CPR Rate Monitor – Guide).

## CPR RATE MONITOR - GUIDE

The CPR Rate Monitor (*requires two (2) 'AA' batteries; not included*) is a patented feedback feature that comes pre-installed in the diaper area of the Prestan Professional Child Manikin. If you have purchased a Prestan Professional Infant Manikin without the CPR Rate Monitor and later decide you want this feature – it may be purchased and installed separately by contacting your Prestan Authorized Distributor.



Figure 1

The Prestan Professional Training Manikin CPR Rate Monitor has a unique way of monitoring both the depth of compressions and the rate of compressions:

Press the button on the diaper to turn on the monitor. The smaller, green on-light will stay on until you press the button again to turn the monitor off. All four of the monitor lights will come on, indicating that the lights are working. (Figure 1)



Figure 2; <60 cpm

If the lights do not light, make sure that the depth of compression is deep enough (you will hear a clicking sound). The lights will not work if the student is not compressing the manikin correctly.

Once a student begins chest compressions, from zero to less than 60 compressions per minute, the red light will be on. (Figure 2)



Figure 3; 60-80 cpm

As the student increases the rate of compressions and reaches 60 compressions per minute, a yellow light will come on until the student reaches 80 compressions per minute. (Figure 3)

As the student increases the rate of compressions and reaches 80 compressions per minute, the first green light will come on until the student reaches 100 compressions per minute. (Figure 4)



Figure 4; 80-100 cpm

When the student reaches 100 compressions per minute, a second green light comes on, indicating that the recommended rate has been reached. (Figure 5)

If the student slows down, one of the green lights will go out indicating that the student needs to increase the rate of compressions.

Should compressions exceed 120 per minute, a yellow light will flash rapidly indicating the recommended cap has been reached. (Figure 6)

Always try to maintain the recommended speed between 100 and 120 compressions per minute as indicated by the 2 green lights.

If the student's depth of compression is not correct, at any time, all the lights will go off and the red light will blink.



Figure 5; 100-120 cpm



Figure 6; >120 cpm

## FACE-SHIELD/LUNG BAG INSTALLATION

1. Unlatch the front torso skin of the Prestan Professional Infant Manikin by unhooking skin from the 'tabs' located at the top of the shoulders and peeling down the skin to expose the chest plate (Figure 1).



Figure 1

2. Fold the Lung-Bag portion of the Face-Shield/Lung-Bag (Figures 2a-2d):

- The Face-Shield/Lung-Bag has four 'dotted lines' printed on one side of the bag (along with an oval)
- Using the four dotted lines, fold the Face-Shield/Lung-Bag into fourths, following the diagram below

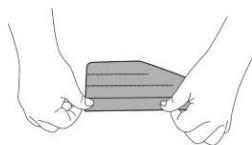


Figure 2a

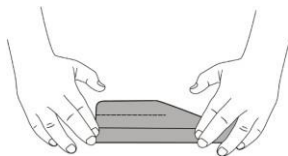


Figure 2b

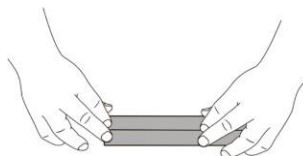


Figure 2c

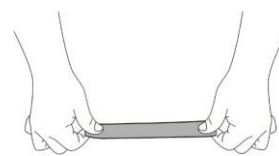


Figure 2d

3. Tilt back the head of the manikin to open the airway.
4. Insert the folded Lung-Bag into the mouth of the manikin (Figure 3).
5. Push the Lung-Bag into the mouth until the bag exits through the neck of the manikin (Figure 4).
6. Grasp the Lung-Bag and finish pulling it through the neck of the manikin (Figure 4).
7. Attach the Face-Shield tabs to the 'buttons' located on the side of the manikin head (Figure 5).
8. Lightly pull down on the Lung-Bag to help open the mouth hole on the Face-Shield.
9. Then position the Lung-Bag on top of the compression plate (the hard plastic circular piece found on top of the torso foam core) with the circular imprint on the Lung-Bag aligning with the compression plate (Figure 6).
10. With proper positioning, the neck of the Face-Shield/Lung-Bag will have slack. Make sure it is not twisted.
11. Roll the skin back up over the Lung-Bag being careful not to press down and "fold" the skin. The torso may then be closed by pushing on down on the shoulder tabs until they snap into place.

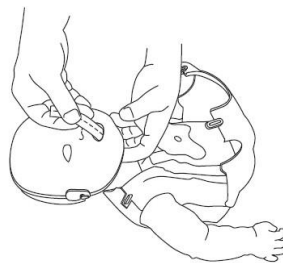


Figure 3

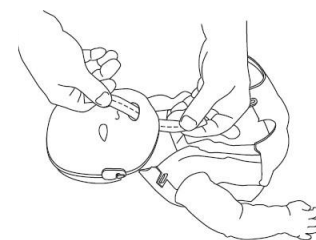


Figure 4

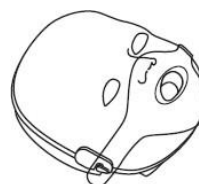


Figure 5

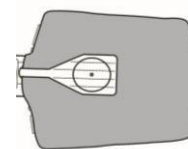


Figure 6



**PRESTAN®**

# **Prestan Professional Manikins**

## **Repacking the Manikin Carry Bags**

In order to preserve the life of your Prestan Manikins and protect protruding features (such as the nose), it is helpful to properly repack them in their carry bag.

Here are photographs of the specific packaging to assist you:

Prestan Professional Adult (or Child) Manikin 4-Pack



Prestan Professional Infant Manikin 4-Pack



Prestan Professional Family Pack

Prestan Professional Collection

Prestan Professional Family Pack



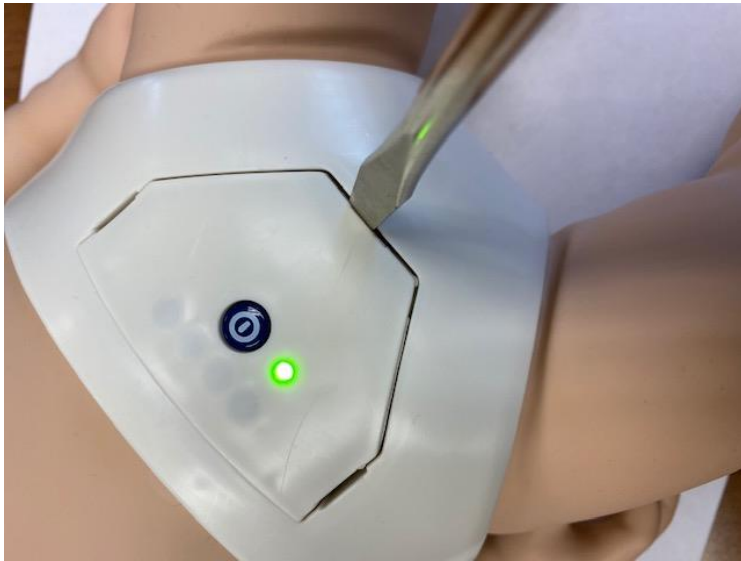
Prestan Professional Collection





## Prestan Professional Manikins Repairing a Faulty Infant Manikin Rate Monitor

**Step 1:** Using a flat head screwdriver, remove Monitor Cover as shown.

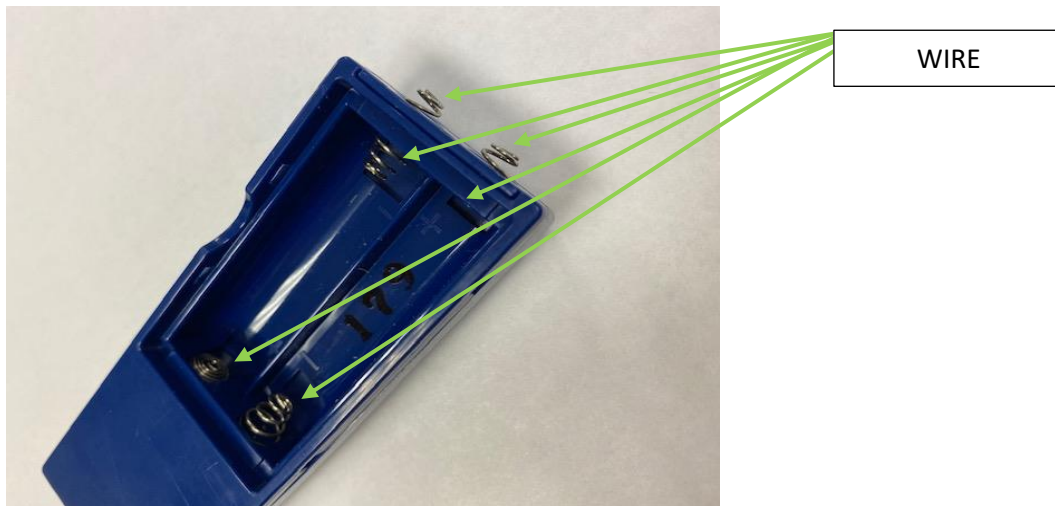


**Step 2:** Pull out Monitor.

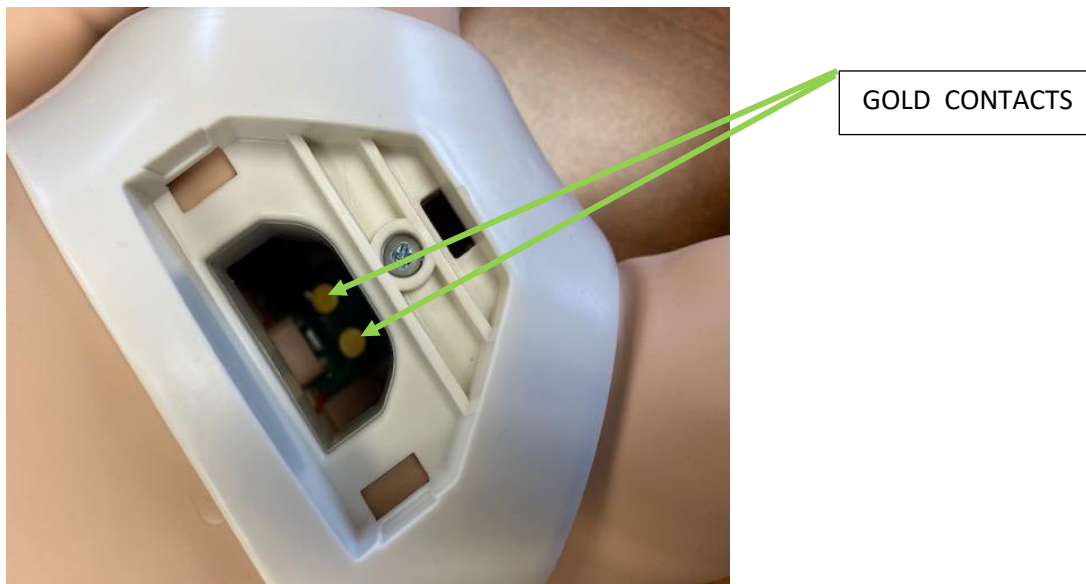




**Step 3:** Remove batteries from Monitor and inspect each of the six wire contacts for corrosion. If mild corrosion is found, soak a Q-tip in isopropyl alcohol and cautiously brush the contacts to remove corrosion. If moderate corrosion is found, cautiously brush the contacts with a Scotch-Brite™ pad to remove corrosion. If severe corrosion is found, the monitor may need to be replaced.



**Step 4:** Inspect the two round gold contacts inside the manikin as shown for corrosion.

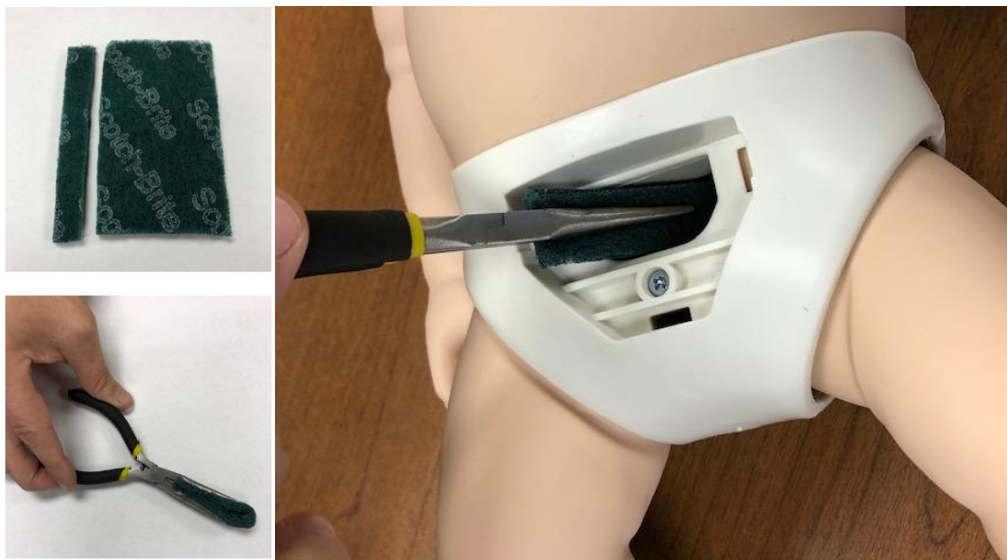




**Step 5A:** If mild corrosion or discoloration is found on either of the round gold contacts, soak a Q-tip in isopropyl alcohol and clamp in needle nose pliers. Cautiously brush the contacts to remove corrosion.



**Step 5B:** If moderate/severe corrosion or discoloration is found on either of the round gold contacts, cut a ½" strip from a Scotch-Brite™ pad and clamp in needle nose pliers. Cautiously brush the contacts to remove corrosion.





**Step 6:** Insert Monitor.



**Step 7:** Attach Monitor Cover.





# Prestan Professional Manikins

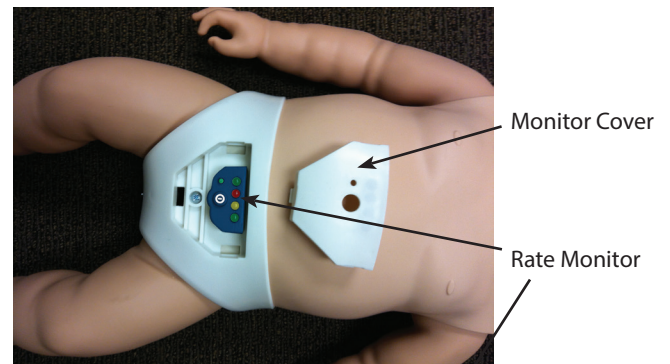
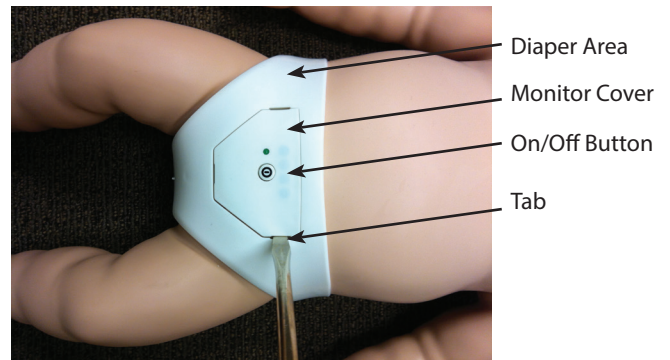
## Replacing the Prestan Infant Rate Monitor and/or Batteries

To replace the Rate Monitor on the Infant Manikin, you will need a small Flat Head Screwdriver.

Remove the Monitor Cover (located in the diaper area of the infant manikin) by gently inserting the edge of the flathead screwdriver into one of the tabs of the monitor cover. The cover will pop out easily.

Remove the old Rate Monitor by lifting it straight out of the cavity.

Insert the new Rate Monitor into the cavity and press the cover back onto the diaper area. The lights may begin to blink, but can be shut off by pushing the On/Off Button.



**Battery Replacement:** If all monitor lights are on and remain on, this is usually an indication that the batteries are about to die.

To replace the batteries in the Infant Rate Monitor, remove the battery cover from the back of the monitor and replace batteries with 2 new AA batteries.





## Prestan Professional Manikins Replacing the Prestan Infant Clicker

To replace the Clicker on the Infant Manikin, you will need a small Flat Head Screwdriver.

The clicker is the round disk in the middle of the manikin's back. To get to the clicker, first peel down the back skin (*Figure 1*).

Remove the black padded covering to expose the clicker (*Figure 2*).

Disconnect the wiring below the clicker by squeezing the black connector and pulling upward and out (*Figure 3*).

Using a flat head screwdriver, gently pry the clicker from the infant by inserting the flat edge into one or more of the three slots. The clicker will pop out (*Figure 4*).

Push the new clicker into place. Plug the wiring back in, pushing the connector until a click is heard.

Replace the black foam pad and roll the skin back into place from the bottom moving upward, making sure to attach and firmly push the skin into place at all the contact points.

Note that the infant skin is fairly loose around the manikin at the sides and shoulders.

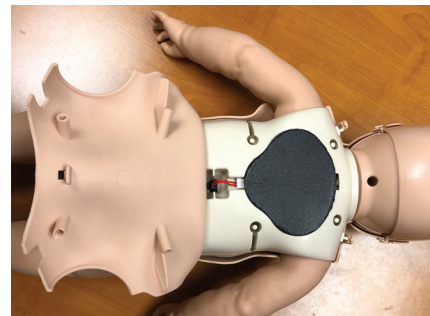


Figure 1

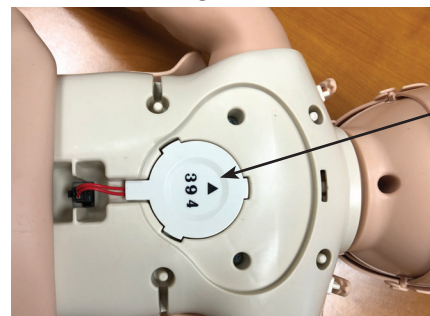


Figure 2

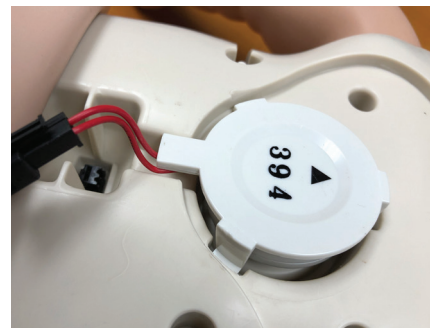


Figure 3

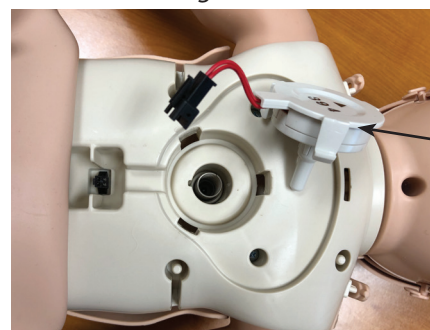


Figure 4



PRESTAN®

# Prestan Professional Manikins

## Replacing the Chest Foam on the Infant Manikin

Tools required: Cordless Screwdriver (recommended) or Phillips Screwdriver

1. Pull chest skin down from the shoulders to expose foam.
2. Unscrew and remove (lift off) chest plate.



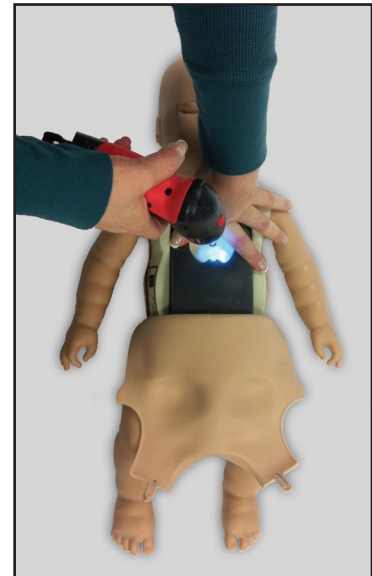
3. Remove (lift out) old chest foam.



4. Replace with new chest foam.
5. Reposition chest plate and screw for reattachment.
6. With one hand, compress down on chest plate and foam.



7. While still holding down, screw the chest plate back into place.



8. Re-cover chest with skin, securing tabs at shoulders.



## TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE ISSUES OR COMMENTS	SOLUTIONS
<b>CPR Rate Monitor</b>		
Cannot find CPR Rate Monitor (Monitor) – no lights in the diaper area	<ul style="list-style-type: none"> <li>You have purchased/received a Prestan Professional Infant Manikin without the CPR Rate Monitor</li> </ul>	<ul style="list-style-type: none"> <li>If you were expecting a monitored manikin, check with the distributor where you purchased the manikin to insure you received the item you paid for. See the chart on page 2 of this manual for the product numbers.</li> </ul> <p>Note: Infant CPR Rate Monitors may be purchased separately from your Prestan Authorized Distributor. They are shipped with a replacement diaper area cover for viewing the lights through it.</p>
CPR Rate Monitor (Monitor) lights are not working properly  <i>Please follow the troubleshooting tips at right in the order they are listed for best results</i>	<ul style="list-style-type: none"> <li>Chest compressions are not deep enough to signal Monitor</li> <li>Batteries are not installed, need replacing or are not inserted correctly in the CPR Rate Monitor</li> <li>Either the Clicker or the Monitor needs to be replaced</li> </ul>	<ul style="list-style-type: none"> <li>Compress the chest until the click is audible from the Clicker at 2"-2.4"</li> <li>Install or replace batteries into Monitor (back of manikin, left shoulder area) - requires 2-AA (1.5V) batteries</li> <li>Exchange Monitors with working manikins (if available) to confirm whether the Monitor (RPP-IMON-1) needs to be replaced*</li> </ul>
CPR Rate Monitor (Monitor) lights are all on	<ul style="list-style-type: none"> <li>Batteries are running low</li> </ul>	<ul style="list-style-type: none"> <li>Replace batteries</li> </ul>
CPR Rate Monitor (Monitor) red light is blinking	<ul style="list-style-type: none"> <li>This is normal after replacing batteries or manikin is paused - may blink up to 16 times to indicate ready status</li> </ul>	<ul style="list-style-type: none"> <li>Commence or resume compressions - blinking will stop and feedback rate signals will begin</li> </ul>
CPR Rate Monitor falls out when administering back blows	<ul style="list-style-type: none"> <li>Monitor cover in diaper area is no longer fitting properly</li> </ul>	<ul style="list-style-type: none"> <li>Request new Infant Monitor Cover (10402)*</li> </ul>

\* Contact your Prestan Authorized Distributor to either purchase the replacement part or receive it at no charge if the manikin is within Prestan's 3-year warranty period and is a qualifying warranty repair.

## TROUBLESHOOTING GUIDE

(Continued)

SYMPTOM	POSSIBLE ISSUES OR COMMENTS	SOLUTIONS
<b>Torso and Face-Shield/Lung-Bag</b>		
Cannot hear a click when doing compressions	<ul style="list-style-type: none"> <li>• Hand position and/or compression angle may be incorrect</li> <li>• Compressions may not be deep enough to activate the clicker</li> <li>• Clicker may be broken</li> </ul>	<ul style="list-style-type: none"> <li>• Confirm correct hand placement and compress straight down from directly above the manikin</li> <li>• Compress between 2 and 2.4 inches depth</li> <li>• Replace Clicker in back of manikin (RPP-CCLICK-1)*</li> </ul>
Chest will not rise when breaths are given	<ul style="list-style-type: none"> <li>• Head is not tilted back enough to open airway</li> <li>• Face Shield is not attached</li> <li>• Lung Bag may be damaged or torn (Note: there are holes in the Infant Lung Bag necks by design to allow deflation)</li> <li>• Lung Bag is not lying flat or properly positioned over the compression plate and/or neck of bag is twisted</li> <li>• Lung Bag has accumulated moisture in the neck, which may cause the sides to stick together and prevent air passage</li> </ul>	<ul style="list-style-type: none"> <li>• Push on forehead and/or lift at chin to tilt head back enough to open airway</li> <li>• Attach Face Shield at “buttons” on the side of the manikin’s head below ears</li> <li>• Blow into the Face-Shield/Lung-Bag while it is outside the manikin to make sure it inflates properly – if not, discard and use another Face-Shield/Lung-Bag</li> <li>• Revisit instructions for installing a Face-Shield/Lung-Bag earlier in this manual</li> <li>• A new Face-Shield/Lung-Bag should be installed after each class, or more often if needed due to excessive moisture buildup</li> </ul>
Manikin torso will not stay closed (when breaths are given)	<ul style="list-style-type: none"> <li>• Front torso skin may not be securely latched</li> </ul>	<ul style="list-style-type: none"> <li>• Secure skin onto shoulder tabs</li> </ul>

\* Contact your Prestan Authorized Distributor to either purchase the replacement part or receive it at no charge if the manikin is within Prestan’s 3-year warranty period and is a qualifying warranty repair.

## TROUBLESHOOTING GUIDE

(Continued)

SYMPTOM	POSSIBLE ISSUES OR COMMENTS	SOLUTIONS
<b>Torso</b>		
Rattling in chest	<ul style="list-style-type: none"> <li>• Compression Sleeve may be broken</li> </ul>	<ul style="list-style-type: none"> <li>• Replace sleeve in chest with part RPP-ICOM-1 (compression assembly includes chest plate, spring, sleeve and clicker)*</li> </ul>
Chest Plate is broken	<ul style="list-style-type: none"> <li>• Typically results from a combination of incorrect (not centered) hand placement, compression angle not straight down from directly above and/or overzealous compression force</li> </ul>	<ul style="list-style-type: none"> <li>• Replace chest plate with RPP-ICOM-1 (compression assembly includes chest plate, spring, sleeve and clicker)*</li> </ul>

\* Contact your Prestan Authorized Distributor to either purchase the replacement part or receive it at no charge if the manikin is within Prestan's 3-year warranty period and is a qualifying warranty repair.

# PRESTAN Professional Infant Manikin

## Frequently Asked Questions



### **The CPR Rate Monitor lights on my infant manikin are not working properly.**

1. Make sure you are compressing fully, you should hear the clicker when fully compressed.
2. Ensure two AA batteries are installed in the battery compartment of the monitor unit located in the diaper area.
3. The LED monitor may be malfunctioning. Contact your distributor or PRESTAN for a replacement monitor.

### **The diaper area of my Infant Manikin bubbles up when I give compressions.**

Remove the diaper section and tuck in all skin sections. Reattach the diaper section pushing down on the unit as much as possible and continue holding down while screwing in the screws.

### **How do you replace the batteries?**

The compartment for the batteries is located under the "diaper area" of the manikin. Open the cover to the CPR Rate Monitor by using a small flat-edged screwdriver in the slots on sides and gently lifting. Remove the CPR Rate Monitor unit from the well. Squeeze the tabbed area to open the battery compartment and replace the batteries. Once the batteries are replaced, snap the lid back into place, return the CPR Rate Monitor unit to the well and snap the diaper cover back into place.

### **I have a 4-Pack of Infant Manikins. What is the proper way to pack them into the carry bag?**

Please refer to the PRESTAN Professional Manikin Repacking Help Guide in the PRESTAN Resource Center.

### **It is too hard to do compressions on my Infant Manikin with 2 fingers. How can I adjust this?**

We strive to make the PRESTAN Professional Infant Manikins as similar to real-life as possible for CPR purposes. The density of the chest foam used for our manikins will vary slightly as it would with a real infant. If you are experiencing difficulties with two-finger compressions, you may want to consider the two-thumb method.

### **How do I change the batteries in the Infant Manikin?**

The batteries power the CPR Rate Monitor, which is located under the cover on the front of the diaper area. Use a flathead screwdriver in the slots on the sides of the cover to easily wedge/pop it out. Then slide out the monitor. The battery replacement door is marked on the monitor and takes 2 AA batteries.



# Prestan Professional Manikins

## INFANT MANIKIN

### USE AND CARE INSTRUCTION SHEET

THANK YOU for buying the **Prestan Professional Infant Manikin!**

Please read through these instructions and keep them with your manikin(s).



*Prestan Professional Infant Manikin*



*Prestan Professional Infant Manikin 4-Pack*

For future reference, make note below of the Prestan Authorized Distributor where you purchased your manikins. Call your Prestan Authorized Distributor for product questions, reordering parts/accessories, or warranty issues:

\_\_\_\_\_  
Prestan Authorized Distributor

\_\_\_\_\_  
Distributor Phone

\_\_\_\_\_  
Purchase Date



## MODELS COVERED BY THIS INSTRUCTION SHEET

PRODUCT # (MODEL)	MANIKIN PACK	MANIKIN QTY./SIZE	INCLUDED CPR RATE MONITOR(S) *	INCLUDED CARRY CASE	INCLUDED FACE-SHIELD/ LUNG-BAGS
PP-IM-100M PP-IM-100M-MS PP-IM-100M-DS	SINGLE	1 INFANT	YES	SINGLE CASE	10-PACK
PP-IM-100 PP-IM-100-MS PP-IM-100-DS	SINGLE	1 INFANT	NO	SINGLE CASE	10-PACK
PP-IM-400M PP-IM-400M-MS PP-IM-400M-DS	4-PACK	4 INFANT	YES 1 PER MANIKIN	4-PACK CASE w/strap	50-PACK
PP-IM-400 PP-IM-400-MS PP-IM-400-DS	4-PACK	4 INFANT	NO	4-PACK CASE w/strap	50-PACK
PP-FM-300M PP-FM-300M-MS PP-FM-300M-DS	COLLECTION **	1 ADULT, 1 CHILD, 1 INFANT	YES 1 PER MANIKIN	COLLECTION CASE w/strap	10-PACK PER MANIKIN
PP-FM-500M PP-FM-500M-MS PP-FM-500M-DS	FAMILY PACK **	2 ADULTS, 1 CHILD, 2 INFANTS	YES 1 PER MANIKIN	FAMILY PACK CASE w/strap	10-PACK PER MANIKIN

### REGARDING THE ABOVE CHART AND THE CONTENTS OF YOUR ORDER:

\* The **CPR Rate Monitor** (*Rate Monitor, CPR Monitor, Monitor*) is a patented feedback feature for **Prestan Professional Manikins** that consists of an LED light bank that responds to compressions (see the section on the CPR Rate Monitor). The CPR Rate Monitor (*requires two (2) 'AA' batteries; not included*) is pre-installed in the diaper area of the Infant manikin. If you purchased the Prestan Professional Manikin without the CPR Rate Monitor and later decide you would like one, it may be ordered separately from your Prestan Authorized Distributor and easily installed. Installation instructions may be found in the Resources section of [www.prestanproducts.com](http://www.prestanproducts.com).

\*\* **The Prestan Collection and Prestan Family Pack** also include **Prestan Professional Adult and Child Manikins**. These have separate Instruction Sheets that are included with the manikins or can be accessed at [www.prestanproducts.com](http://www.prestanproducts.com).

**Available Skin Tones:** Any of the above models may be available in one of three Skin Tones:

- A model number without a suffix signifies our original Light Skin Tone
- A model number with a “-MS” at the end (i.e. PP-AM-100M-MS) signifies a Medium Skin Tone
- A model number with a “-DS” at the end (i.e. PP-AM-400-DS) this signifies Dark Skin tone

If anything is missing, please contact the Prestan Authorized Distributor where you made your purchase.

## CLEANING

- The face and the body skin of the Prestan® Professional Manikin is made out of the same material and can be cleaned in the same manner.
- If the material becomes dirty, clean with a mixture of soap and water. If the area is extremely dirty, common household cleaners such as Formula 409®, Windex® or Vim® may be used. Non-bleach wipes such as Clorox® or Lysol® disinfecting wipes are convenient and work well. It is recommended that the use of these cleaners be done cautiously with minimum amount of abrasion to insure the life of the skin.
- A melamine foam eraser such as Mr. Clean® Magic Eraser® or Scotch-Brite™ Easy Erasing Pad may be used cautiously for stains.
- Cleaners containing wax, oil, or citrus (d-Limonene) are not recommended.
- Any cleaner not listed/recommended above may be tested in a non-visible area of the manikin. Open the manikin's torso chest and test the cleaner on the underside. Monitor for 24 hours. Should there be an undesirable reaction, the cleaner should not be used on the manikin.
- The face skin may also be sanitized with alcohol wipes or soaked in a solution of 1/4 cup bleach mixed with one gallon of water for 10 minutes. Between student uses, the instructor (or student) may clean the faces off with an alcohol wipe as an extra measure of safety.
- Don't forget to wipe the upper chest foam and skin in the same way in order to sanitize the inside of the manikin as well.
- Replacement skins for the face and torso may be purchased from your Prestan Authorized Distributor.

## STORAGE

- Store the Prestan Professional Manikin(s) in the nylon carry bag(s).
- For added protection, store the manikin inside the carry bag, and place the carry bag inside the original shipping box.
- Do not stack the manikins unless they are inside the original shipping box or other protective container.
- The nylon carry bag for the Prestan Professional Manikin(s) is not meant to store or transport belongings (i.e. books) in addition to the manikin(s) - please use the carry bag only for the intended manikin(s) to prevent damage to the bag.
- Store the manikin(s) in a cool, dry area, at temperatures between 50°-70° F and 50% relative humidity.
- For storage longer than 1 month, it is recommended that the batteries be removed from the CPR Rate Monitor (if the manikin has this feature).



# Prestan Professional Manikins

## Care and Cleaning Recommendations

### Cleaning:

- The face and the body skin of the Prestan Professional Manikin is made out of the same material and can be cleaned in the same manner
- If the material becomes dirty, clean with a mixture of soap and water. If the area is extremely dirty, common household cleaners such as Formula 409®, Windex® or Vim may be used. The material may also be conveniently wiped down with a Clorox® or Lysol® disinfecting wipe. It is recommended that the use of these cleaners be done cautiously with minimum amount of abrasion to insure the life of the skin.
- Don't forget to wipe the upper chest foam & skin in the same way in order to sanitize the inside of the manikin.
- The face skin may also be sanitized with alcohol wipes or soaked in a solution of 1/4 cup bleach mixed with one gallon of water for 10 minutes. Between student uses, the instructor (or student) may clean the faces off with an alcohol wipe as an extra measure of safety. Replacement face skins may be ordered from your Prestan Authorized Distributor.
- When using more than one student per manikin, we suggest each student have their own face shield which can be placed over the attached face-shield/lung-bag when administering breaths. Face shields may be ordered from your Prestan Authorized Distributor.
- Lung bags should be replaced after each class as bacterial moisture (from giving breaths) is trapped inside. Replacement lung bags may be ordered from your Prestan Authorized Distributor.

### Storage:

- Store your Prestan Professional Manikin in its original carrying case. Further literature is available on proper repacking of the manikin carry bags.
- Remove the heads from the torsos for extra protection.
- Do not stack the manikins as this may damage the noses.
- Do not store the manikins in a damp area or in a place with extreme temperatures.

## CPR FEATURES

### FACE-SHIELD/LUNG-BAG FOR THE VISIBLE CHEST RISE

- The Face-Shield/Lung-Bag (PP-ILB-10, PP-ILB-50) combines the Face Shield and the Lung Bag into a single, t-shaped airway for the manikin. Air goes in through the Face-Shield opening to inflate the Lung-Bag, which provides the visible chest rise in response to administered CPR breaths.
- Face-Shield/Lung-Bags are sized specifically to fit each Prestan Professional Manikin (Adult/Child/Infant) and are not interchangeable among the different manikin sizes.
- The Face-Shield portion covers the mouth of the manikin. It stays in place by hooking the ends onto buttons located at each side of the head under the ears.
- The Lung-Bag portion is placed on the manikin chest (under the torso skin) and fills with air from administered CPR breaths. This provides a visual chest rise for the student.
- Face-Shield/Lung-Bags are a consumable item and should be changed depending on how they are used:
  - If breaths are being administered by mouth, either directly or via rescue mask adaptor, the Face-Shield/Lung-Bag should be changed between classes due to accumulation of bacteria-causing moisture inside the neck and bag. This change is advised for both sanitary and performance purposes.
  - If breaths are being administered by a manual resuscitator (BVM/Ambu bag), there is no need to change the Face-Shield/Lung-Bag.
- When a manikin is being shared by more than one student, it is recommended that each student be provided with their own sanitary and disposable mouth protector:
  - If direct mouth contact is being used to give CPR breaths, students should be supplied with their own Face Shield (PP-IFS-50) (sold separately and disposable). The fitted Face Shield can be placed over the already-installed Face-Shield/Lung-Bag on the mouth of the manikin when it is that student's turn to give breaths. Generic, non-fitted face shields may also be used, but may slide around on the mouth and possibly cover the mouth opening if not held in place.
  - If rescue masks are being used to give CPR breaths, students should be supplied with their own Rescue Mask Adaptor (10076-PPA, 10076-PPA-50) (sold separately and disposable). The adaptors can be inserted into any standard mask when it is that student's turn to give breaths.

### CPR CLICKER

- The Clicker is the round disk in the center of the manikin's back, under the infant skin and foam piece.
- The Clicker works with compressions to provide an audible "click" when compression depth reaches 2" (the compression is able to continue to a 2.4" depth).
- The Clicker sends a signal to the CPR Rate Monitor (if the manikin has this feature) to allow it to provide feedback on compression speed (see CPR Rate Monitor – Guide).

## CPR RATE MONITOR - GUIDE

The CPR Rate Monitor (*requires two (2) 'AA' batteries; not included*) is a patented feedback feature that comes pre-installed in the diaper area of the Prestan Professional Child Manikin. If you have purchased a Prestan Professional Infant Manikin without the CPR Rate Monitor and later decide you want this feature – it may be purchased and installed separately by contacting your Prestan Authorized Distributor.



Figure 1

The Prestan Professional Training Manikin CPR Rate Monitor has a unique way of monitoring both the depth of compressions and the rate of compressions:

Press the button on the diaper to turn on the monitor. The smaller, green on-light will stay on until you press the button again to turn the monitor off. All four of the monitor lights will come on, indicating that the lights are working. (Figure 1)



Figure 2; <60 cpm

If the lights do not light, make sure that the depth of compression is deep enough (you will hear a clicking sound). The lights will not work if the student is not compressing the manikin correctly.

Once a student begins chest compressions, from zero to less than 60 compressions per minute, the red light will be on. (Figure 2)



Figure 3; 60-80 cpm

As the student increases the rate of compressions and reaches 60 compressions per minute, a yellow light will come on until the student reaches 80 compressions per minute. (Figure 3)

As the student increases the rate of compressions and reaches 80 compressions per minute, the first green light will come on until the student reaches 100 compressions per minute. (Figure 4)



Figure 4; 80-100 cpm

When the student reaches 100 compressions per minute, a second green light comes on, indicating that the recommended rate has been reached. (Figure 5)

If the student slows down, one of the green lights will go out indicating that the student needs to increase the rate of compressions.

Should compressions exceed 120 per minute, a yellow light will flash rapidly indicating the recommended cap has been reached. (Figure 6)

Always try to maintain the recommended speed between 100 and 120 compressions per minute as indicated by the 2 green lights.

If the student's depth of compression is not correct, at any time, all the lights will go off and the red light will blink.



Figure 5; 100-120 cpm



Figure 6; >120 cpm

## FACE-SHIELD/LUNG BAG INSTALLATION

1. Unlatch the front torso skin of the Prestan Professional Infant Manikin by unhooking skin from the 'tabs' located at the top of the shoulders and peeling down the skin to expose the chest plate (Figure 1).

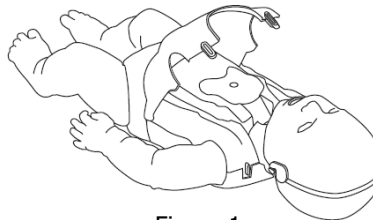


Figure 1

2. Fold the Lung-Bag portion of the Face-Shield/Lung-Bag (Figures 2a-2d):

- The Face-Shield/Lung-Bag has four 'dotted lines' printed on one side of the bag (along with an oval)
- Using the four dotted lines, fold the Face-Shield/Lung-Bag into fourths, following the diagram below

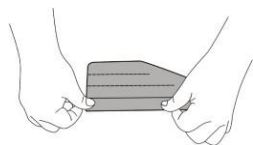


Figure 2a

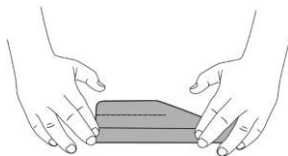


Figure 2b

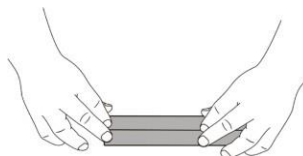


Figure 2c

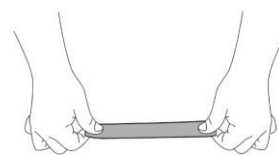


Figure 2d

3. Tilt back the head of the manikin to open the airway.
4. Insert the folded Lung-Bag into the mouth of the manikin (Figure 3).
5. Push the Lung-Bag into the mouth until the bag exits through the neck of the manikin (Figure 4).
6. Grasp the Lung-Bag and finish pulling it through the neck of the manikin (Figure 4).
7. Attach the Face-Shield tabs to the 'buttons' located on the side of the manikin head (Figure 5).
8. Lightly pull down on the Lung-Bag to help open the mouth hole on the Face-Shield.
9. Then position the Lung-Bag on top of the compression plate (the hard plastic circular piece found on top of the torso foam core) with the circular imprint on the Lung-Bag aligning with the compression plate (Figure 6).
10. With proper positioning, the neck of the Face-Shield/Lung-Bag will have slack. Make sure it is not twisted.
11. Roll the skin back up over the Lung-Bag being careful not to press down and "fold" the skin. The torso may then be closed by pushing on down on the shoulder tabs until they snap into place.

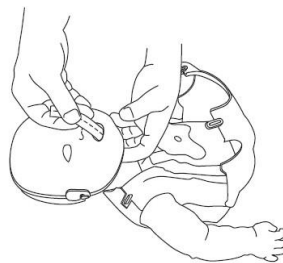


Figure 3

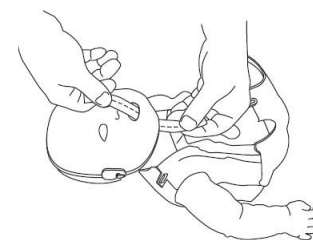


Figure 4

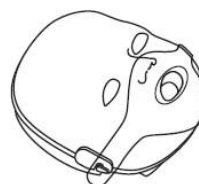


Figure 5

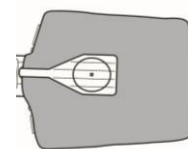


Figure 6



**PRESTAN®**

# Prestan Professional Manikins

## Repacking the Manikin Carry Bags

In order to preserve the life of your Prestan Manikins and protect protruding features (such as the nose), it is helpful to properly repack them in their carry bag.

Here are photographs of the specific packaging to assist you:

Prestan Professional Adult (or Child) Manikin 4-Pack



Prestan Professional Infant Manikin 4-Pack



Prestan Professional Family Pack

Prestan Professional Collection

Prestan Professional Family Pack



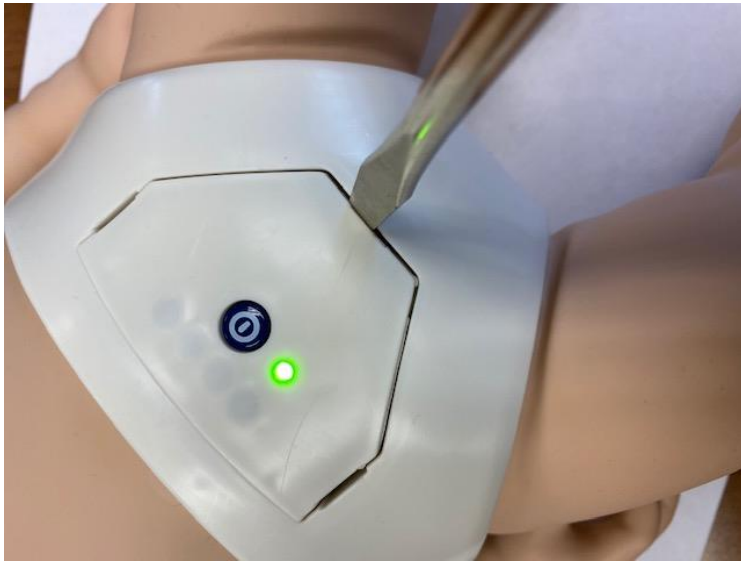
Prestan Professional Collection





## Prestan Professional Manikins Repairing a Faulty Infant Manikin Rate Monitor

**Step 1:** Using a flat head screwdriver, remove Monitor Cover as shown.

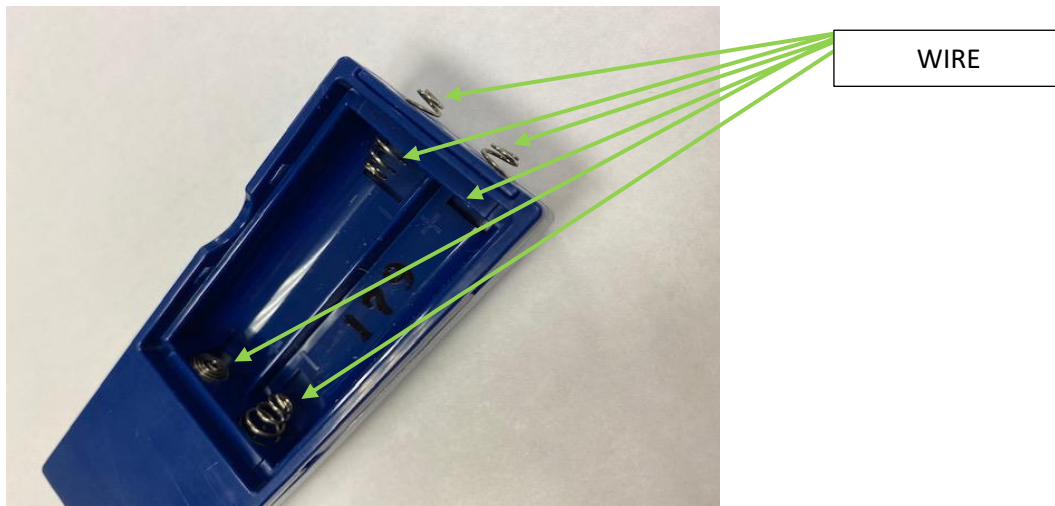


**Step 2:** Pull out Monitor.

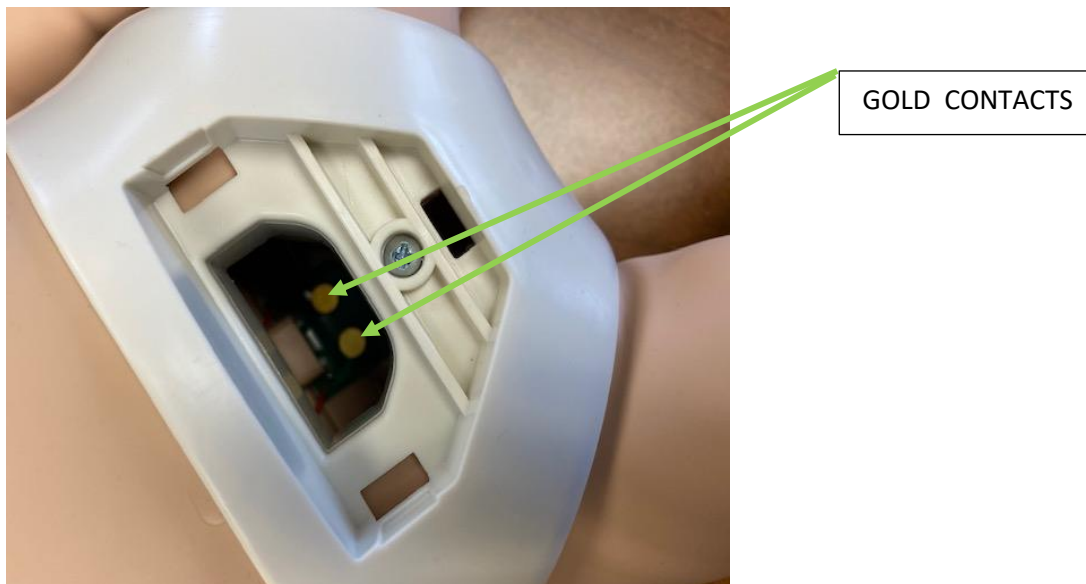




**Step 3:** Remove batteries from Monitor and inspect each of the six wire contacts for corrosion. If mild corrosion is found, soak a Q-tip in isopropyl alcohol and cautiously brush the contacts to remove corrosion. If moderate corrosion is found, cautiously brush the contacts with a Scotch-Brite™ pad to remove corrosion. If severe corrosion is found, the monitor may need to be replaced.



**Step 4:** Inspect the two round gold contacts inside the manikin as shown for corrosion.





**Step 5A:** If mild corrosion or discoloration is found on either of the round gold contacts, soak a Q-tip in isopropyl alcohol and clamp in needle nose pliers. Cautiously brush the contacts to remove corrosion.



**Step 5B:** If moderate/severe corrosion or discoloration is found on either of the round gold contacts, cut a ½" strip from a Scotch-Brite™ pad and clamp in needle nose pliers. Cautiously brush the contacts to remove corrosion.





**Step 6:** Insert Monitor.



**Step 7:** Attach Monitor Cover.





# Prestan Professional Manikins

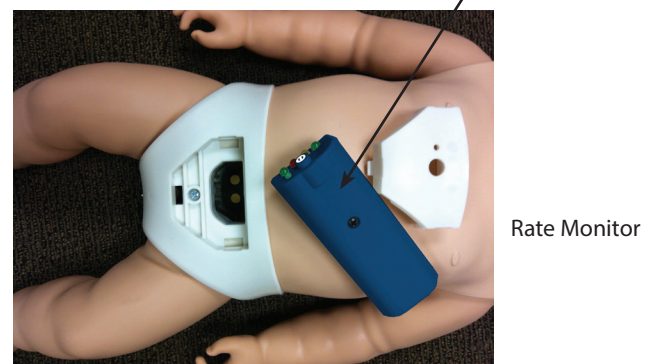
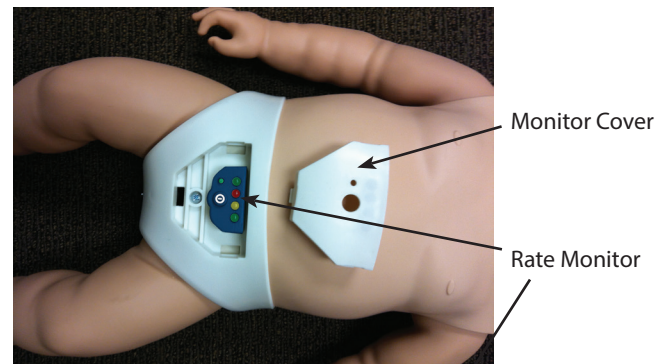
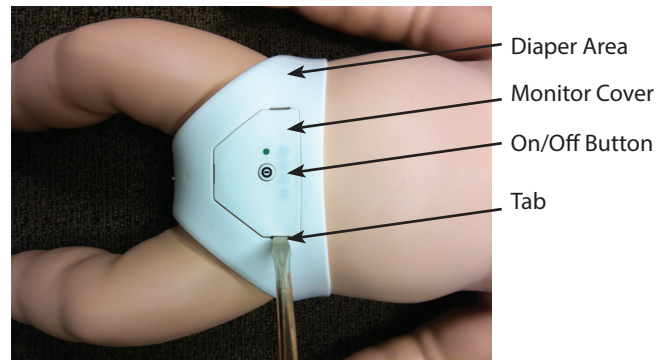
## Replacing the Prestan Infant Rate Monitor and/or Batteries

To replace the Rate Monitor on the Infant Manikin, you will need a small Flat Head Screwdriver.

Remove the Monitor Cover (located in the diaper area of the infant manikin) by gently inserting the edge of the flathead screwdriver into one of the tabs of the monitor cover. The cover will pop out easily.

Remove the old Rate Monitor by lifting it straight out of the cavity.

Insert the new Rate Monitor into the cavity and press the cover back onto the diaper area. The lights may begin to blink, but can be shut off by pushing the On/Off Button.



**Battery Replacement:** If all monitor lights are on and remain on, this is usually an indication that the batteries are about to die.

To replace the batteries in the Infant Rate Monitor, remove the battery cover from the back of the monitor and replace batteries with 2 new AA batteries.





## Prestan Professional Manikins Replacing the Prestan Infant Clicker

To replace the Clicker on the Infant Manikin, you will need a small Flat Head Screwdriver.

The clicker is the round disk in the middle of the manikin's back. To get to the clicker, first peel down the back skin (*Figure 1*).

Remove the black padded covering to expose the clicker (*Figure 2*).

Disconnect the wiring below the clicker by squeezing the black connector and pulling upward and out (*Figure 3*).

Using a flat head screwdriver, gently pry the clicker from the infant by inserting the flat edge into one or more of the three slots. The clicker will pop out (*Figure 4*).

Push the new clicker into place. Plug the wiring back in, pushing the connector until a click is heard.

Replace the black foam pad and roll the skin back into place from the bottom moving upward, making sure to attach and firmly push the skin into place at all the contact points.

Note that the infant skin is fairly loose around the manikin at the sides and shoulders.

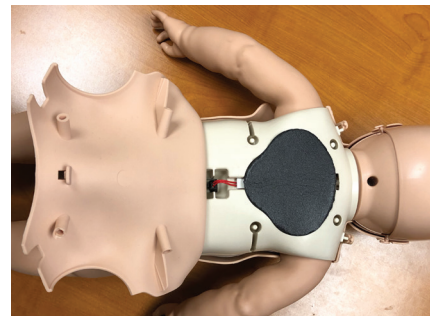


Figure 1

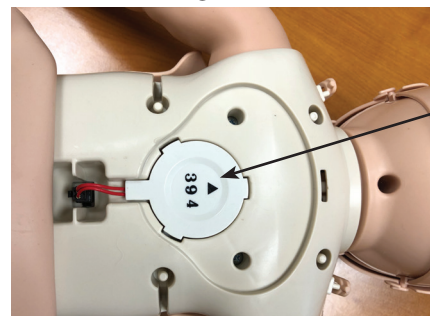


Figure 2

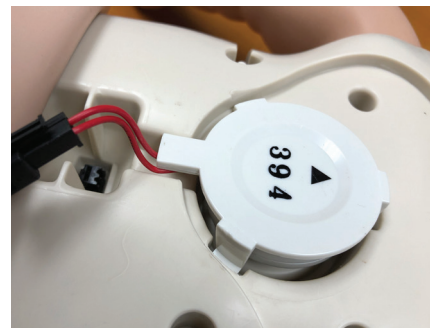


Figure 3

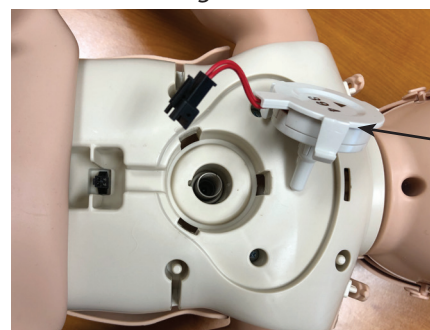


Figure 4



PRESTAN®

# Prestan Professional Manikins

## Replacing the Chest Foam on the Infant Manikin

Tools required: Cordless Screwdriver (recommended) or Phillips Screwdriver

1. Pull chest skin down from the shoulders to expose foam.
2. Unscrew and remove (lift off) chest plate.



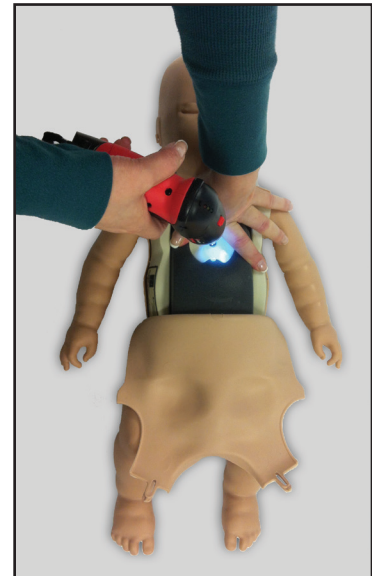
3. Remove (lift out) old chest foam.



4. Replace with new chest foam.
5. Reposition chest plate and screw for reattachment.
6. With one hand, compress down on chest plate and foam.



7. While still holding down, screw the chest plate back into place.



8. Re-cover chest with skin, securing tabs at shoulders.

## TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE ISSUES OR COMMENTS	SOLUTIONS
<b>CPR Rate Monitor</b>		
<p>Cannot find CPR Rate Monitor (Monitor) – no lights in the diaper area</p>	<ul style="list-style-type: none"> <li>You have purchased/received a Prestan Professional Infant Manikin without the CPR Rate Monitor</li> </ul>	<ul style="list-style-type: none"> <li>If you were expecting a monitored manikin, check with the distributor where you purchased the manikin to insure you received the item you paid for. See the chart on page 2 of this manual for the product numbers.</li> </ul> <p>Note: Infant CPR Rate Monitors may be purchased separately from your Prestan Authorized Distributor. They are shipped with a replacement diaper area cover for viewing the lights through it.</p>
<p>CPR Rate Monitor (Monitor) lights are not working properly</p> <p><i>Please follow the troubleshooting tips at right in the order they are listed for best results</i></p>	<ul style="list-style-type: none"> <li>Chest compressions are not deep enough to signal Monitor</li> <li>Batteries are not installed, need replacing or are not inserted correctly in the CPR Rate Monitor</li> <li>Either the Clicker or the Monitor needs to be replaced</li> </ul>	<ul style="list-style-type: none"> <li>Compress the chest until the click is audible from the Clicker at 2"-2.4"</li> <li>Install or replace batteries into Monitor (back of manikin, left shoulder area) - requires 2-AA (1.5V) batteries</li> <li>Exchange Monitors with working manikins (if available) to confirm whether the Monitor (RPP-IMON-1) needs to be replaced*</li> </ul>
<p>CPR Rate Monitor (Monitor) lights are all on</p>	<ul style="list-style-type: none"> <li>Batteries are running low</li> </ul>	<ul style="list-style-type: none"> <li>Replace batteries</li> </ul>
<p>CPR Rate Monitor (Monitor) red light is blinking</p>	<ul style="list-style-type: none"> <li>This is normal after replacing batteries or manikin is paused - may blink up to 16 times to indicate ready status</li> </ul>	<ul style="list-style-type: none"> <li>Commence or resume compressions - blinking will stop and feedback rate signals will begin</li> </ul>
<p>CPR Rate Monitor falls out when administering back blows</p>	<ul style="list-style-type: none"> <li>Monitor cover in diaper area is no longer fitting properly</li> </ul>	<ul style="list-style-type: none"> <li>Request new Infant Monitor Cover (10402)*</li> </ul>

\* Contact your Prestan Authorized Distributor to either purchase the replacement part or receive it at no charge if the manikin is within Prestan's 3-year warranty period and is a qualifying warranty repair.

## TROUBLESHOOTING GUIDE

(Continued)

SYMPTOM	POSSIBLE ISSUES OR COMMENTS	SOLUTIONS
<b>Torso and Face-Shield/Lung-Bag</b>		
Cannot hear a click when doing compressions	<ul style="list-style-type: none"> <li>• Hand position and/or compression angle may be incorrect</li> <li>• Compressions may not be deep enough to activate the clicker</li> <li>• Clicker may be broken</li> </ul>	<ul style="list-style-type: none"> <li>• Confirm correct hand placement and compress straight down from directly above the manikin</li> <li>• Compress between 2 and 2.4 inches depth</li> <li>• Replace Clicker in back of manikin (RPP-CCLICK-1)*</li> </ul>
Chest will not rise when breaths are given	<ul style="list-style-type: none"> <li>• Head is not tilted back enough to open airway</li> <li>• Face Shield is not attached</li> <li>• Lung Bag may be damaged or torn (Note: there are holes in the Infant Lung Bag necks by design to allow deflation)</li> <li>• Lung Bag is not lying flat or properly positioned over the compression plate and/or neck of bag is twisted</li> <li>• Lung Bag has accumulated moisture in the neck, which may cause the sides to stick together and prevent air passage</li> </ul>	<ul style="list-style-type: none"> <li>• Push on forehead and/or lift at chin to tilt head back enough to open airway</li> <li>• Attach Face Shield at “buttons” on the side of the manikin’s head below ears</li> <li>• Blow into the Face-Shield/Lung-Bag while it is outside the manikin to make sure it inflates properly – if not, discard and use another Face-Shield/Lung-Bag</li> <li>• Revisit instructions for installing a Face-Shield/Lung-Bag earlier in this manual</li> <li>• A new Face-Shield/Lung-Bag should be installed after each class, or more often if needed due to excessive moisture buildup</li> </ul>
Manikin torso will not stay closed (when breaths are given)	<ul style="list-style-type: none"> <li>• Front torso skin may not be securely latched</li> </ul>	<ul style="list-style-type: none"> <li>• Secure skin onto shoulder tabs</li> </ul>

\* Contact your Prestan Authorized Distributor to either purchase the replacement part or receive it at no charge if the manikin is within Prestan’s 3-year warranty period and is a qualifying warranty repair.

## TROUBLESHOOTING GUIDE

(Continued)

SYMPTOM	POSSIBLE ISSUES OR COMMENTS	SOLUTIONS
<b>Torso</b>		
Rattling in chest	<ul style="list-style-type: none"> <li>• Compression Sleeve may be broken</li> </ul>	<ul style="list-style-type: none"> <li>• Replace sleeve in chest with part RPP-ICOM-1 (compression assembly includes chest plate, spring, sleeve and clicker)*</li> </ul>
Chest Plate is broken	<ul style="list-style-type: none"> <li>• Typically results from a combination of incorrect (not centered) hand placement, compression angle not straight down from directly above and/or overzealous compression force</li> </ul>	<ul style="list-style-type: none"> <li>• Replace chest plate with RPP-ICOM-1 (compression assembly includes chest plate, spring, sleeve and clicker)*</li> </ul>

\* Contact your Prestan Authorized Distributor to either purchase the replacement part or receive it at no charge if the manikin is within Prestan's 3-year warranty period and is a qualifying warranty repair.

# PRESTAN Professional Infant Manikin

## Frequently Asked Questions



### **The CPR Rate Monitor lights on my infant manikin are not working properly.**

1. Make sure you are compressing fully, you should hear the clicker when fully compressed.
2. Ensure two AA batteries are installed in the battery compartment of the monitor unit located in the diaper area.
3. The LED monitor may be malfunctioning. Contact your distributor or PRESTAN for a replacement monitor.

### **The diaper area of my Infant Manikin bubbles up when I give compressions.**

Remove the diaper section and tuck in all skin sections. Reattach the diaper section pushing down on the unit as much as possible and continue holding down while screwing in the screws.

### **How do you replace the batteries?**

The compartment for the batteries is located under the "diaper area" of the manikin. Open the cover to the CPR Rate Monitor by using a small flat-edged screwdriver in the slots on sides and gently lifting. Remove the CPR Rate Monitor unit from the well. Squeeze the tabbed area to open the battery compartment and replace the batteries. Once the batteries are replaced, snap the lid back into place, return the CPR Rate Monitor unit to the well and snap the diaper cover back into place.

### **I have a 4-Pack of Infant Manikins. What is the proper way to pack them into the carry bag?**

Please refer to the PRESTAN Professional Manikin Repacking Help Guide in the PRESTAN Resource Center.

### **It is too hard to do compressions on my Infant Manikin with 2 fingers. How can I adjust this?**

We strive to make the PRESTAN Professional Infant Manikins as similar to real-life as possible for CPR purposes. The density of the chest foam used for our manikins will vary slightly as it would with a real infant. If you are experiencing difficulties with two-finger compressions, you may want to consider the two-thumb method.

### **How do I change the batteries in the Infant Manikin?**

The batteries power the CPR Rate Monitor, which is located under the cover on the front of the diaper area. Use a flathead screwdriver in the slots on the sides of the cover to easily wedge/pop it out. Then slide out the monitor. The battery replacement door is marked on the monitor and takes 2 AA batteries.

# Prestan<sup>®</sup>

## AED UltraTrainer™



**PRESTAN<sup>®</sup>**

# Prestan AED UltraTrainer™



Model PP-AEDUT-101 —> **Prestan AED UltraTrainer** (requires three (3) 'C' batteries; not included) preprogrammed with English/Spanish language, one set of adult/child training pads (pre-installed), one set of extra connector pins and a nylon carrying case.



Model PP-AEDUT-401 —> **Prestan AED UltraTrainer 4-Pack** (requires twelve (12) 'C' batteries; not included) preprogrammed with English/Spanish language, four sets of adult/child training pads, four sets of extra connector pins, 4 single nylon cases and a 4-pack nylon carrying case.



## START HERE

- Use this instruction sheet as a reference for the Prestan AED UltraTrainer and Accessories.
- **Warning:** The Prestan AED UltraTrainer is intended for training purposes only. It is **NOT** an Automated External Defibrillator (AED) and will not deliver a shock. To avoid confusion, it should **NEVER** be kept in the same area with AEDs.
- Owner's information – For future reference, make note on your Quick Start Card of the Prestan Authorized Distributor where you purchased your AED Trainer and keep it with your unit. Contact your Prestan Authorized Distributor for product questions, reordering parts/accessories, or warranty issues.

## Features of the Prestan AED UltraTrainer

- High Performance Training Pads
  - ⇒ Clear Anatomical Placement Graphics
  - ⇒ Long-Life Adhesive
  - ⇒ Adheres well to all Manikins with no messy residue left behind
  - ⇒ Unique Pad Connector with locking Connector Pin
- Pad Sensing System
  - ⇒ Pads are pre-connected
  - ⇒ Pads on-manikin detection
  - ⇒ Remote Control NOT Required
  - ⇒ Plugging in connector NOT Required
  - ⇒ Works on any Manikin
- Protective & Reusable Pad Tray
- Adult / Child Selection Button
- Bright Illuminated Shock Button
  - ⇒ Flashes when shock is advised
- On/Off Button with Lighted Indicator and Program Pause Option
- Five Training Scenarios
- Clear & Calm Voice Prompts
- Chest Compression Rate Metronome
  - ⇒ Metronome can be turned on or off
  - ⇒ Metronome audible count reminders at 10, 20 and 30 compressions
- Automatic OR Semi-Automatic Shock-Delivery
- Programming Option to either include or not include time for breaths after compression cycle
- Long Battery Life
  - ⇒ Low Battery Voice Prompt Warning
  - ⇒ Automatic Shut Off Extends Battery Life
- Water & Splash Resistant
- Programming is compliant with current AHA Guidelines (2015)

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### ADULT/CHILD TRAINING PADS

- Pad cords are pre-connected to the AED Trainer
- Pad Sensing System automatically lets the unit know when the pads have been connected to a manikin
- Pads last for 100+ uses
- Unique pad replacement (see assembly section)
- Pads are stored on a convenient double-sided Pad Tray

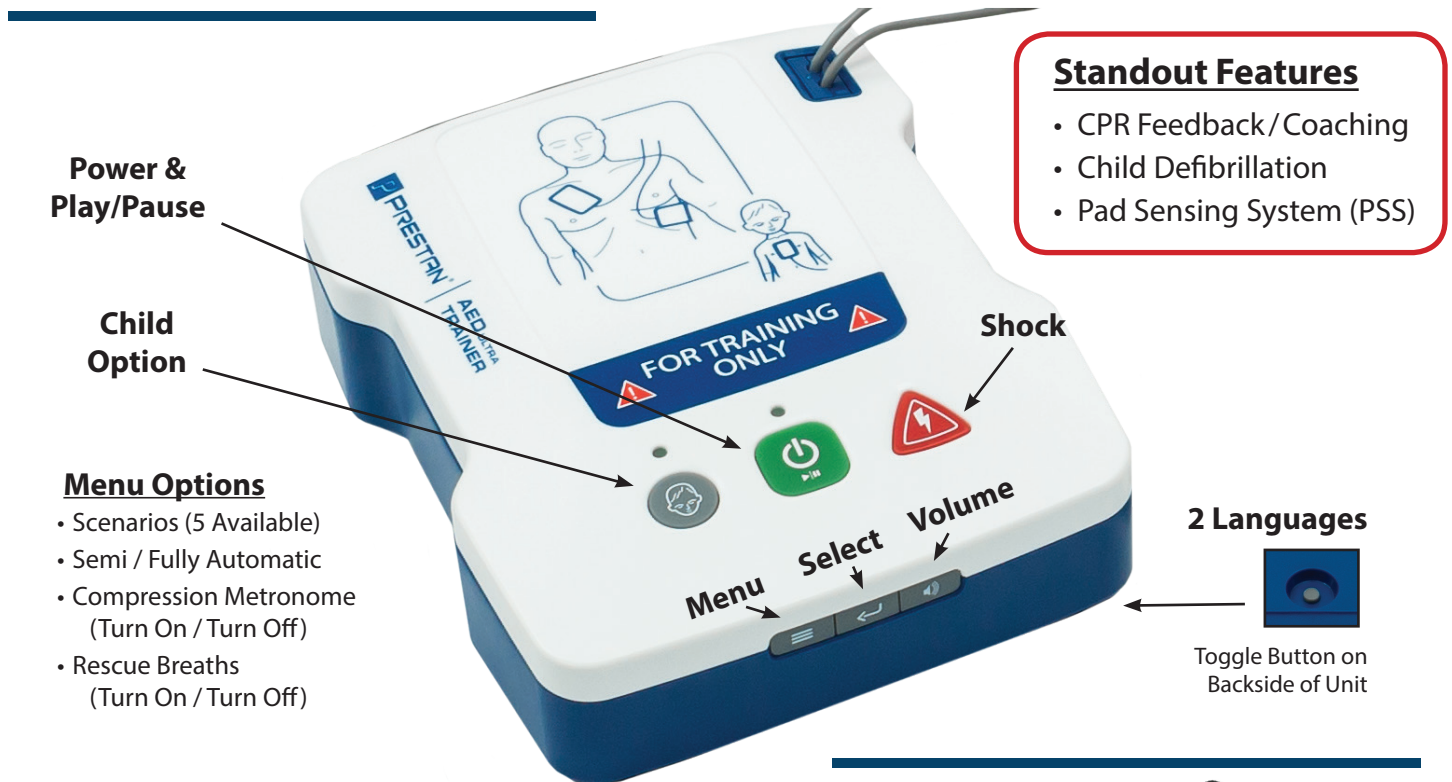




**PRESTAN**<sup>®</sup>

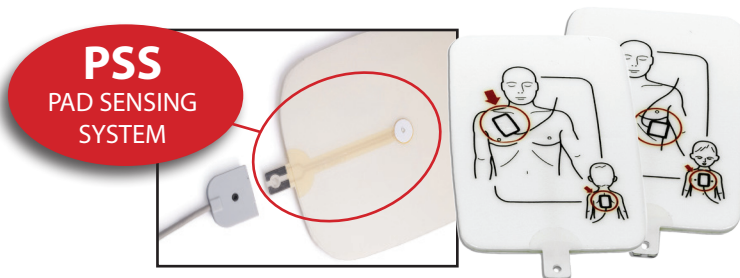
## PRESTAN AED UltraTrainer™

The **Prestan AED UltraTrainer™** provides the options instructors have been waiting for. Combining the most recent technology with realistic features not found on other AED Trainers, this product will excel in any training atmosphere. It is a compact and customizable unit providing quality, durability and affordability. The **Prestan AED UltraTrainer™** is sure to be an industry favorite.



### Amazing Training Pads

- Pads are pre-connected and ready to use, unlike other AED trainers that use outdated plug-in technology
- Pads can be used 100 times (or more!) during CPR/AED classes
- One set of dual-graphics pads work for both adult and child training
- Pads have an embedded 'switch' which senses proper pad attachment to the manikin (Pad Sensing System) (patent pending)
- The silicone base adhesive on the pads, coupled with the foam structure, ensures easy application & removal

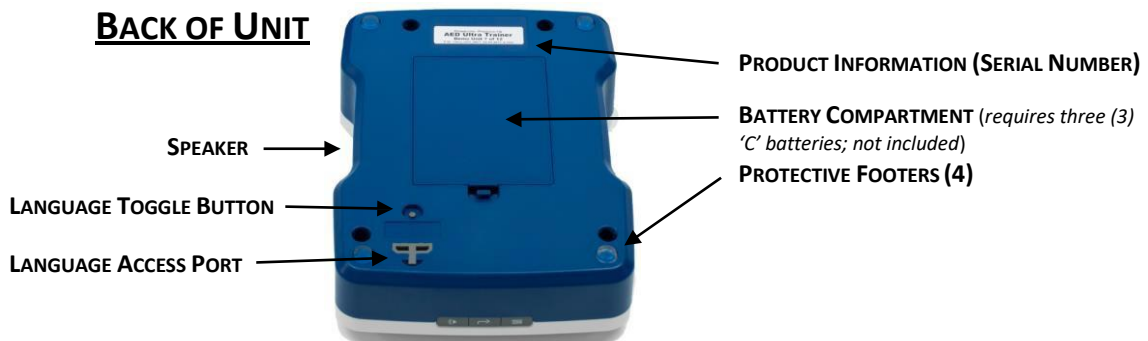
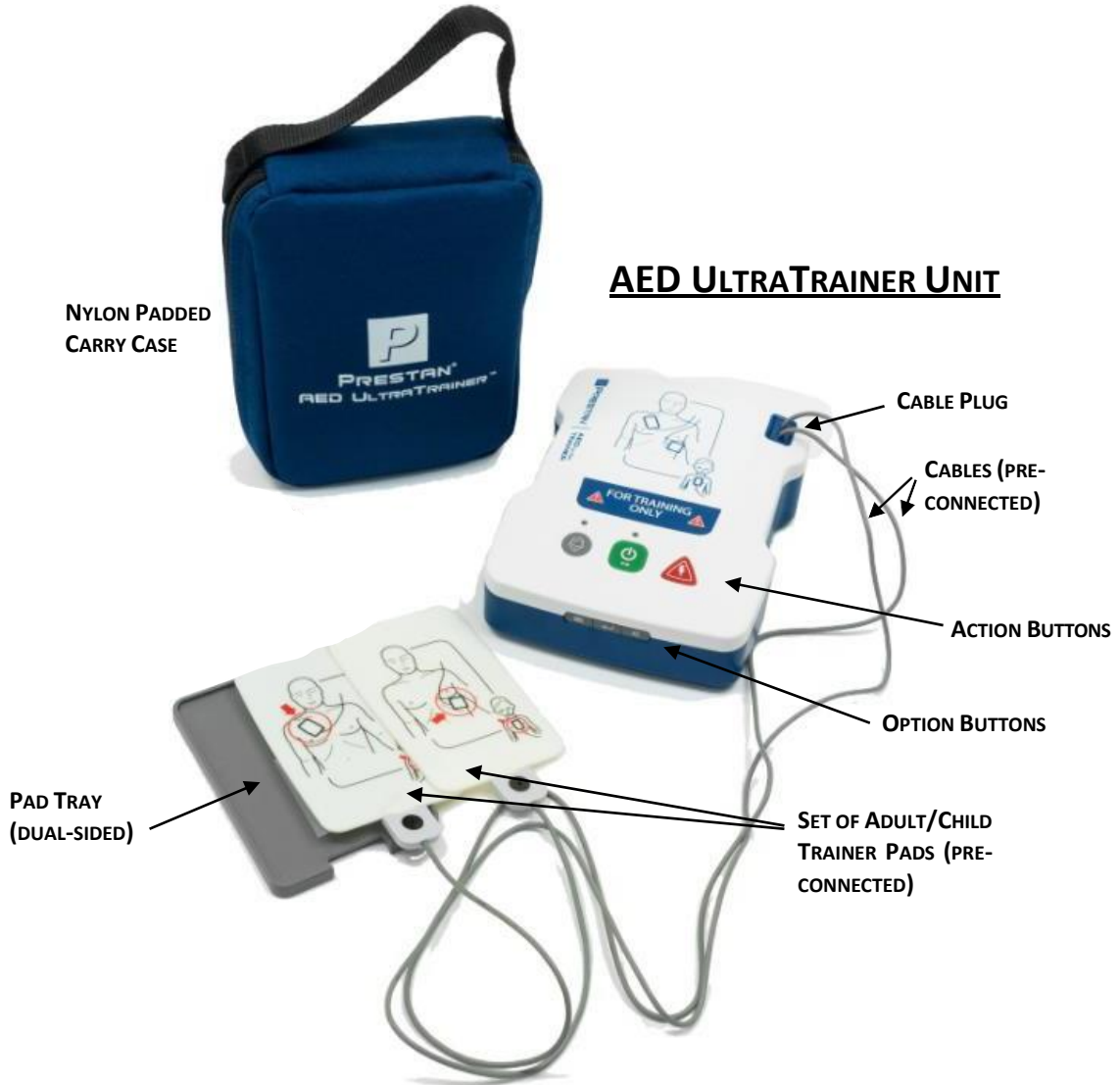


Units include one set of Adult/Child Pads, pre-installed batteries, instructions, extra connector buttons and a carrying case

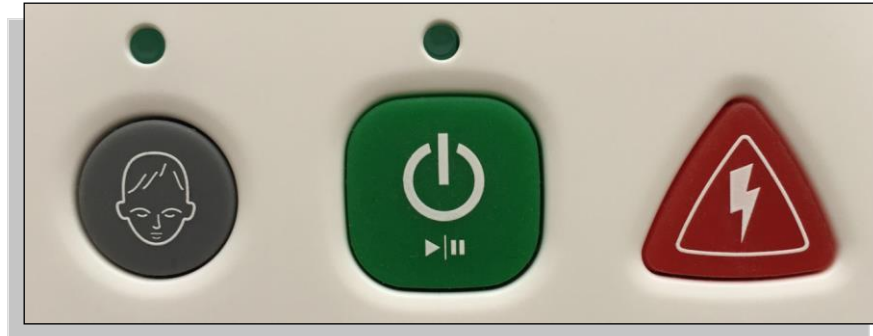
### Product Part Numbers

- ITEM # PP-AEDUT-101 Single AED UltraTrainer - English/Spanish
- ITEM # PP-AEDUT-401 Four AED UltraTrainers - English/Spanish
- ITEM # PP-AEDUT-102 Single AED UltraTrainer - English/French
- ITEM # PP-AEDUT-402 Four AED UltraTrainers - English/French

## FEATURE GUIDE



## ACTION BUTTONS



*Child Button*

*On/Off/Pause Button*

*Shock Button*

### CHILD BUTTON

- After power is turned on, the programming offers an audible option to select the Child Button
- Indicator light above the Child Button will light up when the Child option has been selected and is active
- Indicator light turns off if the program is paused, but turns back on when the program is resumed

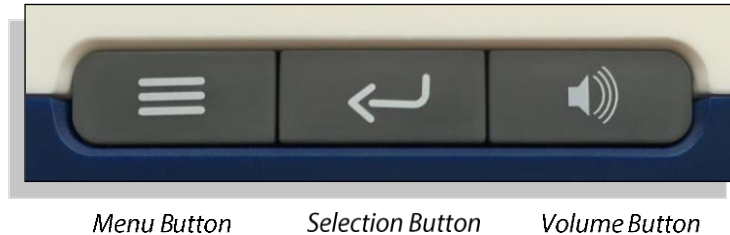
### ON / OFF / PAUSE BUTTON

1. Push green button to start program / the indicator light above the button will turn on
2. Push green button again to pause program / indicator light will blink / push green button again to resume program
3. When unit is running, push and hold the button for 3 seconds to shut off unit

### SHOCK BUTTON

- Red Shock Button will flash when program instructs to deliver shock
- In Semi-Automatic mode, pushing the Shock Button while it is flashing will stop the flashing and resume the program
- In Automatic mode, the Shock Button will flash approximately 6 times before auto-shocking and resuming the program.

## OPTION BUTTONS



### MENU BUTTON

The Menu Button allows customization of 4 options and can be used at any time. Push the Menu Button repeatedly to scroll through and hear each selection currently active for each of the options (see 1-4 below). Use the Selection Button to scroll through and change these options.

### SELECTION BUTTON

Use with the Menu Button to change settings for each of the 4 Menu options. Repeatedly press Selection Button to hear current selection and scroll to the next. After you hear the option desired, simply stop pressing the button and that selection will remain active. A beep will be heard to confirm selection is set.

1. Available Training Scenarios:
  - a. Scenario 1 > Shock / Shock / Shock (default)
  - b. Scenario 2 > Shock / No Shock / No Shock
  - c. Scenario 3 > No Shock / No Shock / No Shock
  - d. Scenario 4 > Shock / No Shock / Shock
  - e. Scenario 5 > Shock / Shock / No Shock
2. Semi-Automatic / Automatic toggle
  - a. Semi-Automatic > Student must push flashing Shock Button to deliver shock (default)
  - b. Automatic > Unit will deliver shock when Shock Button is lit
3. Ventilations toggle
  - a. Ventilations On > Time is provided in scenarios to give breaths (default)
  - b. Ventilations Off > No time is provided in scenarios to give breaths
4. Metronome toggle
  - a. Metronome On > Audible ticks are heard for compression rhythm (default)
  - b. Metronome Off > No ticks are heard during compression section of program

See chart on Page 7 for Ventilations / Metronome interaction.

### VOLUME BUTTON

- Toggle the Volume Button between 3 volume levels
- Works independently of Menu and Selections Buttons

## FEATURE SETTINGS

	Ventilations On	Ventilations Off
<b>CPR Metronome On</b>	<ol style="list-style-type: none"> <li>1. Program begins with analyzing patient and advising shock or no shock based on user scenario setting.</li> <li>2. Audible prompt “BEGIN CPR” starts compression cycle.</li> <li>3. Metronome beats and audible prompt notes “TEN”, TWENTY, and THIRTY compression counts.</li> <li>4. After 30 compression beats, the metronome pauses for an audible prompt to “GIVE 2 BREATHS”.</li> <li>5. Compressions beats and breaths continue for 5 cycles (2 minutes).</li> <li>6. Unit analyzes patient.</li> <li>7. Cycles repeat indefinitely following scenario shock pattern until unit is manually shut off.</li> </ol>	<ol style="list-style-type: none"> <li>1. Program begins with analyzing patient and advising shock or no shock based on user scenario setting.</li> <li>2. Audible prompt “BEGIN CPR” starts compression cycle.</li> <li>3. Compression beats with audible prompt to “CONTINUE CPR” every 24 seconds (x4).</li> <li>4. Compression beats continue for 2 minutes.</li> <li>5. Unit analyzes patient.</li> <li>6. Cycles repeat indefinitely following scenario shock pattern until unit is manually shut off.</li> </ol>
<b>CPR Metronome Off</b>	<ol style="list-style-type: none"> <li>1. Program begins with analyzing patient and advising shock or no shock based on user scenario setting.</li> <li>2. Audible prompt “BEGIN CPR” starts compression cycle.</li> <li>3. Audible prompt notes “TEN”, TWENTY, and THIRTY compression counts.</li> <li>4. After time for 30 compressions, the metronome pauses for an audible prompt to “GIVE 2 BREATHS”.</li> <li>5. Compressions beats and breaths continue for 5 cycles (2 minutes).</li> <li>6. Unit analyzes patient.</li> <li>7. Cycles repeat indefinitely following scenario shock pattern until unit is manually shut off.</li> </ol>	<ol style="list-style-type: none"> <li>1. Program begins with analyzing patient and advising shock or no shock based on user scenario setting.</li> <li>2. Audible prompt “BEGIN CPR” starts compression cycle.</li> <li>3. Silence except for audible prompt to “CONTINUE CPR” every 24 seconds (x4).</li> <li>4. Cycle stops at 2 minutes.</li> <li>5. Unit analyzes patient.</li> <li>6. Cycles repeat indefinitely following scenario shock pattern until unit is manually shut off.</li> </ol>



PRESTAN®

# AED UltraTrainer

## Instructions for using the Programming Dongle



### Basic steps:

1. Make sure the unit has good batteries in it, and unit is off
2. Turn unit over and remove gray rubber plug from socket as shown in the pictures at right
3. Insert programming dongle into the socket, aligning beveled corners on dongle with beveled corners in socket – push down until dongle is flush with unit
4. Turn unit back over and set on table top with dongle tab dangling over the table edge
5. Press green power button (this will turn on the unit and run the programming sequence for approximately 2 minutes / lights will flash during the programming)
6. When programming is done, unit will beep and shut off
7. Press green power to turn on unit, you should hear “Adult Patient...”
8. (If you don’t hear “Adult Patient...” program again)
9. Press green power button and hold down for 3 seconds to turn unit off
10. Remove programming dongle
11. Insert gray plug back into socket
12. Unit is ready to use

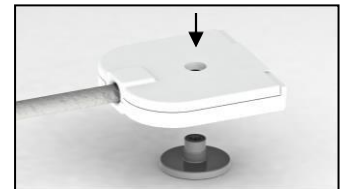


## CARE AND CLEANING INSTRUCTIONS

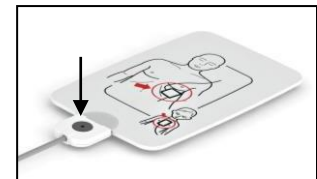
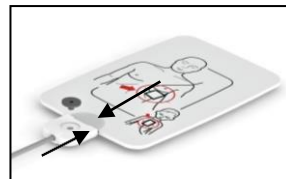
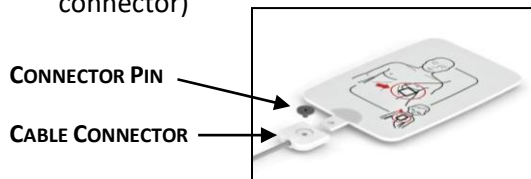
1. Store the Prestan AED UltraTrainer in its case and in a cool, dry area.
2. Return the training pads and cables to their respective storage pouches located on the interior lid of the unit's cover. If pads and cables are stacked on top of the unit, the cables may imprint grooves/indentations into the surface of the pads.
3. If the unit is being stored for long periods, remove batteries to protect against corrosion.
4. Never pick up or carry the unit by the cables.
5. The Prestan AED UltraTrainer should be kept clean. If it becomes soiled, simply wipe with a clean, damp, soft cloth. If the Trainer is extremely dirty, common cleaners can be used cautiously with a minimum amount of abrasion to ensure the life of the unit. Do not submerge unit in water.

## PAD REPLACEMENT

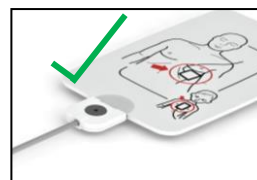
1. Prestan Training Pads will generally last approximately 100 uses.
2. When pad replacement is needed, it is good practice to replace both pads at the same time.
3. Release the existing pads from the gray cable connectors by popping out the black pad connector pins with the tip of a ball point pen.
4. Slide the pads out from the cable connectors.
5. Insert new pads into the cable connectors.
6. Use the pad connector pins to lock the pads in place.



- Insert pad into cable connector (be sure the pad graphics are on same side as the large head of the connector pin and that the connector pin snugly fits into the indentation in the cable connector)



- Insure pad is not upside down
- If the pad has a protective backing over the adhesive (replacement pads), remove and dispose of this and adhere the pads to the double-sided pad case



## TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE ISSUES OR COMMENTS	SOLUTIONS
Unit does not turn on	<ul style="list-style-type: none"> <li>Unit must be manually turned on</li> <li>Batteries are not property installed</li> <li>Batteries are dead or are missing</li> </ul>	<ul style="list-style-type: none"> <li>Push green power button</li> <li>Re-orient batteries properly</li> <li>Replace batteries</li> </ul>
Both pads attached to manikin but device will not advance to analysis	<ul style="list-style-type: none"> <li>Operational solution</li> <li>Pad is inserted upside down in the cable connector</li> <li>Pad or Adhesive worn out</li> </ul>	<ul style="list-style-type: none"> <li>Insure pads are pressed on firmly, specifically so that the sensor in the center of the adhesive is touching a surface</li> <li>Push out black connector pin, flip pad around and re-secure with black connector pin</li> <li>Replace pad (lasts 100+ uses)</li> </ul>
Device proceeds to analyzing before both pads have been placed on the manikin	<ul style="list-style-type: none"> <li>Pads not properly positioned on tray</li> <li>Look for pad riding up pad tray wall</li> </ul>	<ul style="list-style-type: none"> <li>Re-position pad on tray to lay completely flat so it is not touching side walls</li> </ul>
Device delivers shock before shock button is pressed	<ul style="list-style-type: none"> <li>Device is In Automatic mode</li> </ul>	<ul style="list-style-type: none"> <li>Change back to Semi-Automatic Mode</li> </ul>
Device prompts “Replace Batteries”	<ul style="list-style-type: none"> <li>Device will run 10 or more hours with low batteries</li> </ul>	<ul style="list-style-type: none"> <li>Replace batteries within 10 hours</li> </ul>
Device suddenly shuts down or voice prompts are distorted	<ul style="list-style-type: none"> <li>Batteries are very low, almost dead</li> </ul>	<ul style="list-style-type: none"> <li>Install new batteries</li> </ul>
Pad pulls out from pad connector	<ul style="list-style-type: none"> <li>Check for black connector pin missing</li> </ul>	<ul style="list-style-type: none"> <li>Install new black connector pin</li> </ul>
Pad will not stick to the manikin	<ul style="list-style-type: none"> <li>Adhesive is worn out</li> </ul>	<ul style="list-style-type: none"> <li>Replace pads (lasts 100+ uses)</li> </ul>
Grooves/indentations are appearing on the surface of the pads	<ul style="list-style-type: none"> <li>The cables are indenting into the surface of the pads from improper storage placement</li> </ul>	<ul style="list-style-type: none"> <li>Store cables and pads in their respective pouches in the interior lid of the unit’s carry bag</li> </ul>

Features	Benefits	Prestan AED UltraTrainer™	Other Universal AED Trainers
<b>AED Trainer Pads</b>			
Pad Sensing System (PSS) (patent pending)	Senses when pads are placed on manikin then advances to analyzation which best simulates live AEDs. Others must plug in the pads cord to analyze which is technology no longer used with AEDs.	✓	✗
Pads Cord Preconnected	Simulates most modern live AEDs. Others must plug in the pads cord to analyze - technology no longer used with AEDs.	✓	✗
100+ Pad Application Life	Quality Pads last longer saving your budget. Other use low quality pads that need to be replaced more often.	✓	✗
<b>CPR Coaching</b>			
CPR Coaching, Ventilation (Give two breaths) Command	Giving breaths is part of CPR certification curriculums. Other AED trainers do not coach ventilation as required in CPR guidelines.	✓	✗
CPR Coaching, Compression Metronome	CPR Metronome beeps at pace recommend by CPR guidelines. Helps students keep proper compression rate.	✓	✓
On/Off Compression Metronome	Customize training class by turning off metronome if needed.	✓	✗
On/Off Ventilation Command	Customize training class by turning off ventilations if needed. Valuable when teaching Compression-Only CPR.	✓	✗
<b>Child AED Training</b>			
Child Button	Most accurately simulates modern AEDs resulting in a realistic training class.	✓	✗
Child Commands	Most accurately simulates modern AEDs resulting in a realistic training class.	✓	✗
Duel Graphic Pad	Simulates modern live AEDs using adult and child graphics on same pad. Others have separate Child pads adding expense.	✓	✗
<b>Battery Life</b>			
Long Life C Batteries	Class interruptions are minimized with long lasting C batteries which last 3x longer than AA batteries. Others use shorter life AA batteries.	✓	✗
Low Battery Warning	Notification helps avoid interruption of dead batteries during training class.	✓	✗
<b>Shock Simulation</b>			
Automatic or Semi-Automatic Shock Simulation	Customize AED training to the customer's AED.	✓	✗
<b>Warranty</b>			
3-Year Warranty	Durable product backed by Prestan. Others offer 1 year or less.	✓	✗

## PARTS & ACCESSORIES

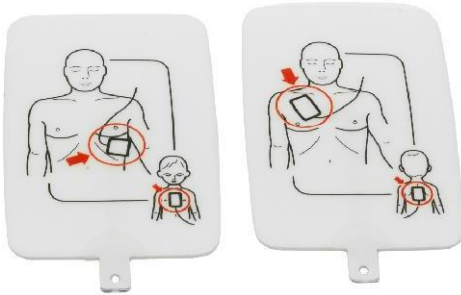
Contact your Prestan Authorized Distributor for Pricing and Ordering



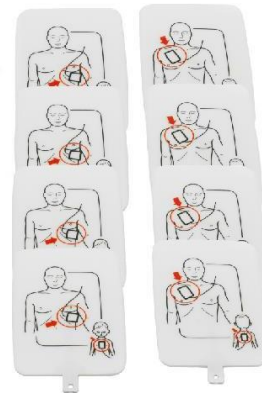
**11678**  
Single Carry Bag for the AED UltraTrainer



**11806**  
4-Pack Carry Bag for the AED UltraTrainer



**PP-UTPAD-1**  
Single set of Adult/Child Training Pads  
for the AED UltraTrainer



**PP-UTPAD-4**  
Four (4) sets of Adult/Child Training Pads  
for the AED UltraTrainer



**RPP-AEDUT-CABLE**  
Replacement Cable Assembly for  
the AED UltraTrainer



**RPP-AEDUT-TRAY**  
Replacement Pad Storage Tray  
for the AED UltraTrainer



**PP-AEDUT-101-D** English/Spanish  
**PP-AEDUT-102-D** English/French  
Language dongle for  
the AED UltraTrainer

## The Prestan AED UltraTrainer™

offers features not found on any other universal AED trainer.

This compact and lightweight unit gives students a realistic training experience with training pads that sense when they are placed on a manikin. In addition, the pads are preconnected and voice prompts are clear and calm.

Instructors can customize their training class with options to turn on or off the compression metronome and/or ventilation voice prompt.

With a 3-year warranty and durable long-lasting pads, the AED UltraTrainer is built to last.

### **Prestan is the First and Only Universal AED Trainer with:**

- ✓ Dual Graphic (Adult/Child) Training Pads
- ✓ Pad Sensing System
- ✓ Preconnected Pads
- ✓ Child Training Button
- ✓ Child AED specific voice prompts
- ✓ Automatic or Semi-Automatic shock simulation
- ✓ CPR Coaching, "Give Breaths" voice prompt
- ✓ Turn on or off compression metronome
- ✓ Turn on or off "Give Breaths" prompts
- ✓ Low Battery warning
- ✓ 3 Year Warranty

### **Other features:**

- ✓ Two languages (English, Spanish)
- ✓ 2015 Guidelines Compliant and Upgradable
- ✓ Play/Pause Button
- ✓ 5 Training Scenarios



Learn more about the Prestan AED UltraTrainer™  
Scan the QR Code to watch the video

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## **PRESTAN Professional AED Trainer PLUS and PRESTAN AED UltraTrainer**

How to toggle between 15:2 and 30:2 compression-ventilation ratio

**Step 1:** Hold child button and power button down at the same time.  
The unit will then beep.

**Step 2:** Release both buttons at the same time.

**Step 3:** Push child button to select your preferred option (15:2 or 30:2).

**Step 4:** Once you have selected your preferred option, power unit off.

**Step 6:** Turn unit back on and you're ready to train.

