



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.

** **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.

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).

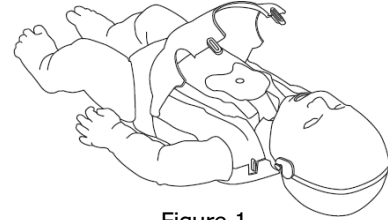


Figure 1

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

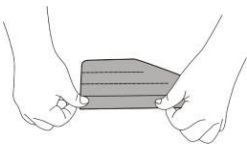


Figure 2a

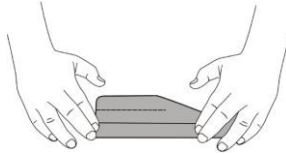


Figure 2b

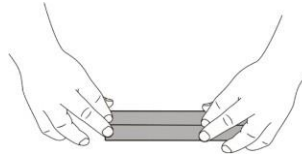


Figure 2c

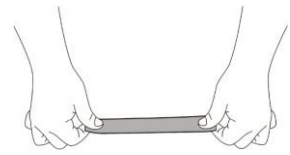


Figure 2d

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.

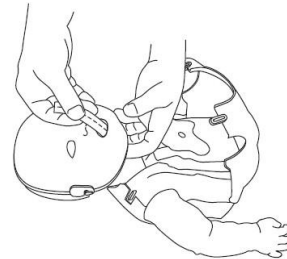


Figure 3

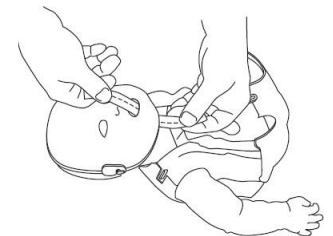


Figure 4

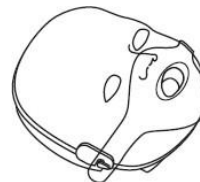


Figure 5

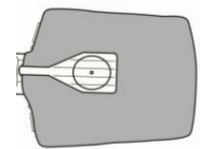


Figure 6



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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



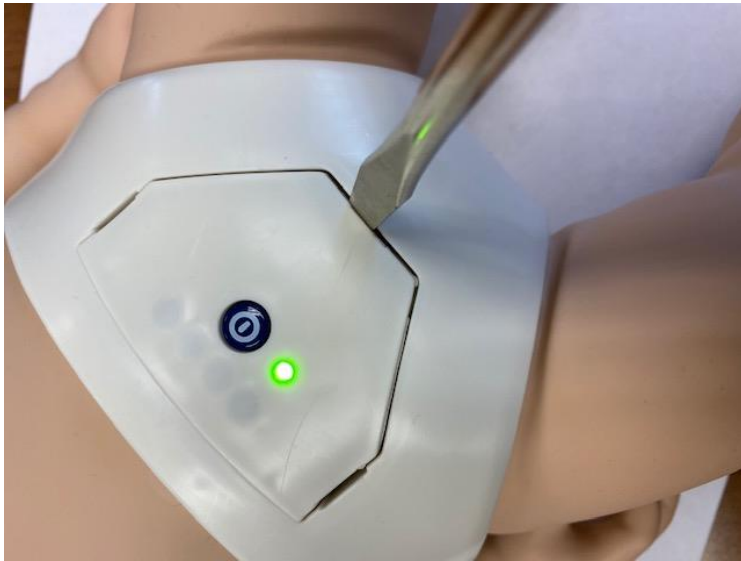
Prestan Professional Collection





Prestan Professional Manikins Repairing a Faulty Infant Manikin Rate Monitor

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

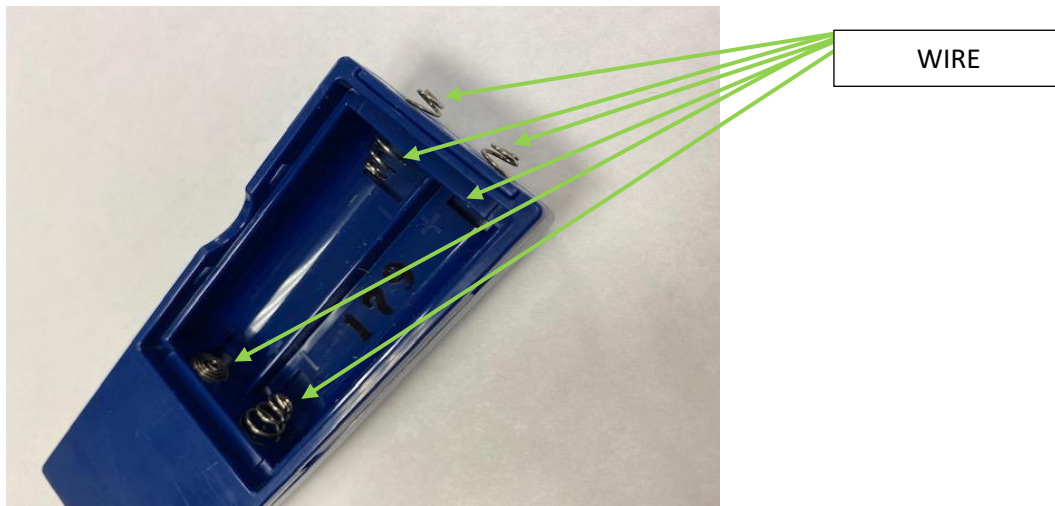


Step 2: Pull out Monitor.

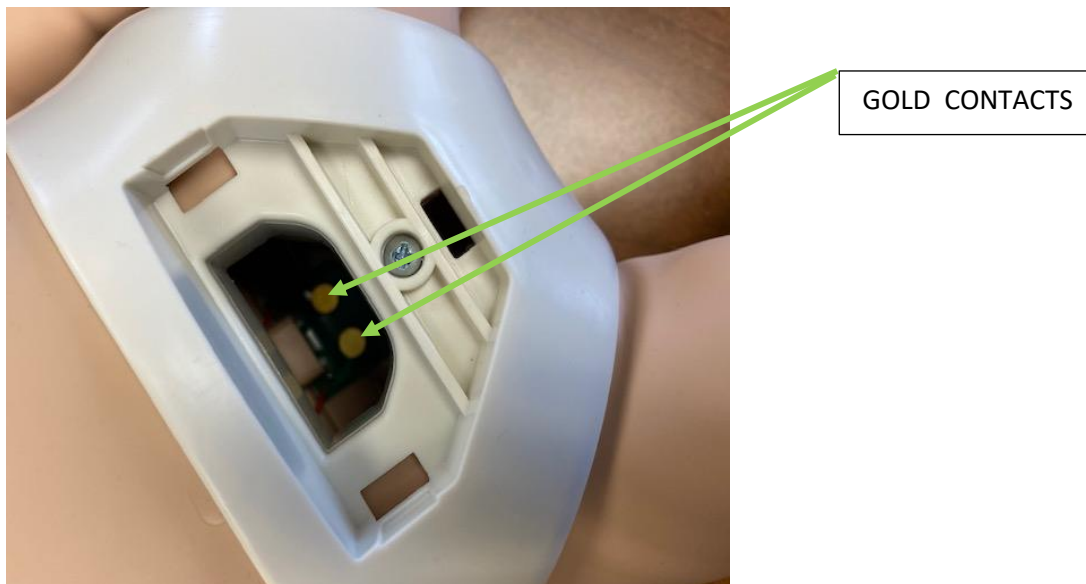




Step 3: Remove batteries from Monitor and inspect each of the six wire contacts for corrosion. If mild corrosion is found, soak a Q-tip in isopropyl alcohol and cautiously brush the contacts to remove corrosion. If moderate corrosion is found, cautiously brush the contacts with a Scotch-Brite™ pad to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

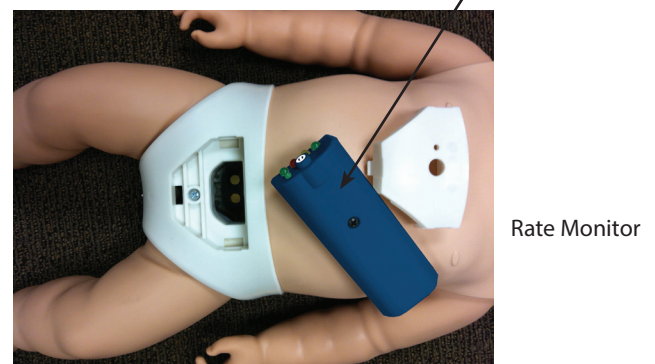
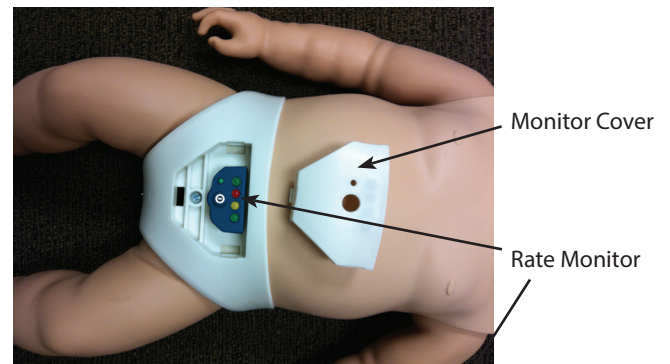
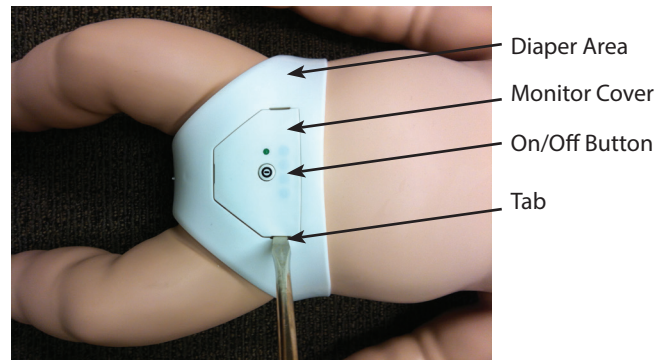
Replacing the Prestan Infant Rate Monitor and/or Batteries

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.

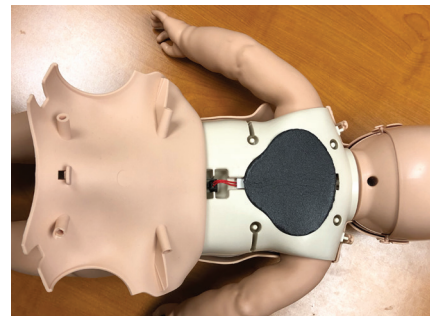


Figure 1

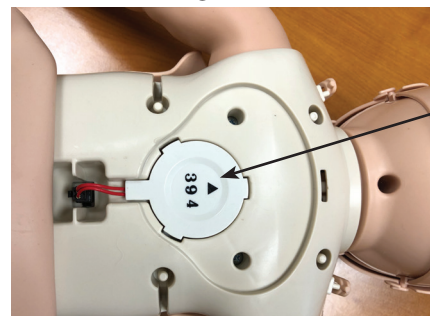


Figure 2

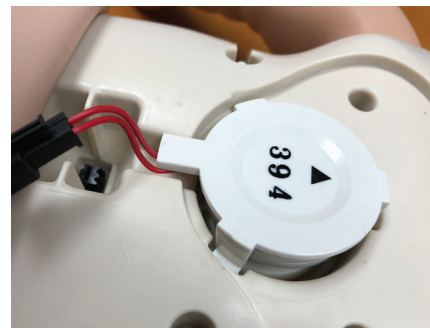


Figure 3

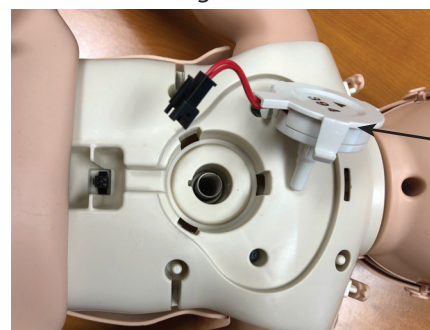


Figure 4



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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.



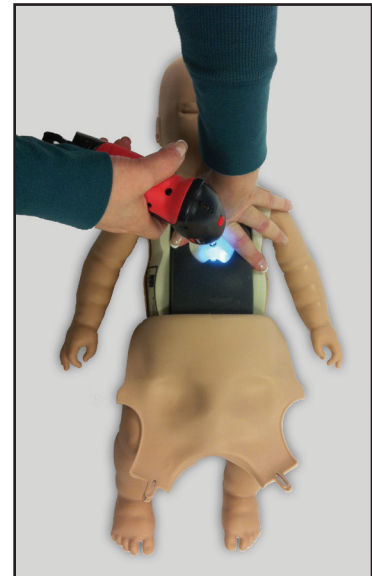
3. Remove (lift out) old chest foam.



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
CPR Rate Monitor		
<p>Cannot find CPR Rate Monitor (Monitor) – no lights in the diaper area</p>	<ul style="list-style-type: none"> You have purchased/received a Prestan Professional Infant Manikin without the CPR Rate Monitor 	<ul style="list-style-type: none"> 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. <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"> Chest compressions are not deep enough to signal Monitor Batteries are not installed, need replacing or are not inserted correctly in the CPR Rate Monitor Either the Clicker or the Monitor needs to be replaced 	<ul style="list-style-type: none"> Compress the chest until the click is audible from the Clicker at 2"-2.4" Install or replace batteries into Monitor (back of manikin, left shoulder area) - requires 2-AA (1.5V) batteries Exchange Monitors with working manikins (if available) to confirm whether the Monitor (RPP-IMON-1) needs to be replaced*
<p>CPR Rate Monitor (Monitor) lights are all on</p>	<ul style="list-style-type: none"> Batteries are running low 	<ul style="list-style-type: none"> Replace batteries
<p>CPR Rate Monitor (Monitor) red light is blinking</p>	<ul style="list-style-type: none"> This is normal after replacing batteries or manikin is paused - may blink up to 16 times to indicate ready status 	<ul style="list-style-type: none"> Commence or resume compressions - blinking will stop and feedback rate signals will begin
<p>CPR Rate Monitor falls out when administering back blows</p>	<ul style="list-style-type: none"> Monitor cover in diaper area is no longer fitting properly 	<ul style="list-style-type: none"> Request new Infant Monitor Cover (10402)*

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

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

* 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.