



Professional Adult and Female Series 2000 Manikin

For information on PRESTAN's Authorized Distributors, help guides, resources and more, visit the PRESTAN website at www.prestan.com.



PRESTAN Professional Adult Series 2000 Manikin



PRESTAN Professional Adult Series 2000 Manikin 4-Pack

MODELS COVERED BY THIS INSTRUCTION SHEET

Single Manikins

PP-AM-2000-MS

PP-AM-2000-DS

PP-AFM-2000-MS

PP-AFM-2000-DS

4-Pack Manikins

PP-AM-2000-4-MS

PP-AM-2000-4-DS

PP-AFM-2000-4-MS

PP-AFM-2000-4-DS










CLEANING & STORAGE

- If the material becomes dirty, clean with a mixture of mild soap and water.
- Any other cleaners, including cleaners containing wax, oil, or citrus (d-Limonene) are not recommended.
- The face skin may be sanitized with alcohol wipes or soaked in a solution of 1/4 cup bleach mixed with one gallon of water for 10 minutes.
- Replacement skins for the face and torso may be purchased from your PRESTAN Authorized Distributor.
- Store the PRESTAN Professional Adult Series 2000 Manikin(s) in the nylon carry bag(s).
- The manikin head should be removed for protection of the facial features, specifically the nose.
- Do not stack the manikins.
- Store the manikin(s) in a cool, dry area, at temperatures between 50°-70° F and 50% relative humidity.
- For storage longer than 1 week, it is recommended that the batteries be removed from the CPR Monitor.


FEATURES

- Feedback provided by Series 2000 Manikin:
 - Rate (Compressions per Minute)
 - Depth of Compression
 - Recoil
 - Hands-off time
 - Ventilation Volume
- Audible "beep" to indicate that the correct depth has been reached.
- Up to 6 manikins may be connected to the same smart device.
- The app is available in multiple languages and for multiple CPR Guideline providers.
- Lights in the left shoulder will light to indicate the rate of compressions or connection status as indicated in the table below.

PRESTAN Series 2000 Manikin LED Sequence Table

	Connected Mode	Disconnected Mode
Sleep Mode/No Power		
Smart Device Connected Mode <small>(Cycles in sequence left to right)</small>		n/a
1st Full Compression, Not Connected Mode <small>(Wake mode/LED Test Mode)</small>	n/a	
CPM* < 60		
CPM* 60 – 79		
CPM* 80 – 99		
CPM* 100 - 120		
CPM* > 120		
Compressions Stopped		

*CPM = Compressions per minute

 = Flashing

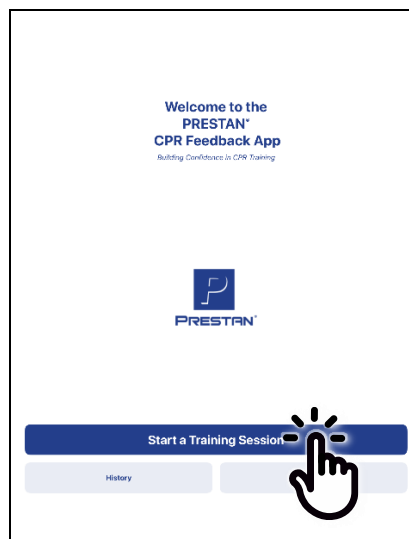
Getting Started

- Insert 2 AA (LR6) batteries (*not included*) into the shoulder monitor.
- Install lung bag into manikin (See Section “Installing Lung Bag” in this manual for detailed instructions)
- Turn the manikin on:
 - Perform a single compression, holding the compression down for at least 1 second.
 - An audible “beep” will sound and all 4 lights in the shoulder will illuminate.
- To use in Stand-Alone Mode:
 - The manikin is ready to function once powered on.
 - Compression depth is correct when an audible “beep” is heard.
 - Compression Rate is correct when two green lights are illuminated. Refer to the LED Sequence Table on the previous page for indications of incorrect rate.
 - Recoil, hands-off time and ventilation feedback is not available in Stand-Alone Mode.
- To use in Connected Mode:
 - Download and open the PRESTAN CPR App, available for Android OS and Apple iOS by browsing to <https://prestan.app> on your smart device or scanning the QR code below:

<https://prestan.app>

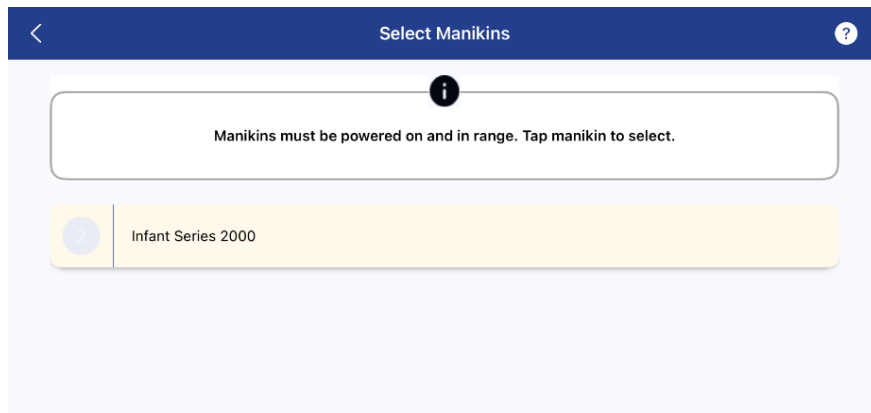


- Verify the manikin is still powered on and press “Start a Training Session”:



Getting Started (Cont'd)

- The App will begin searching for Series 2000 Manikins. Any manikin that is powered, within range (approx. 10m) and not connected to another device will show in the list.



- Select the manikin(s) you would like to include in the training session. You may select up to 6 manikins at one time.
 - For manikins that have not been connected to a device, you have the option of customizing the name and indicator (color dot, number) of the manikin.
 - The manikin will repeatedly beep when being configured.
 - Manikins can be re-configured by using the three dots menu (•••) for each manikin listed.
- Select Training type
 - Training can be set to “Breaths + Compressions” or “Compressions Only”
 - Training can include “Hands-off Time” scoring and data, if desired.
 - Cycles and Guidelines can also be set for the session on this page.
- Once the training cycle has ended, you will be taken to the results pages. Here you can view the overall information, detailed graphs of compressions and breath, as well as add a student name and export the results.

LUNG BAG INSTALLATION

1. Unlatch the torso of the PRESTAN Professional Adult Series 2000 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

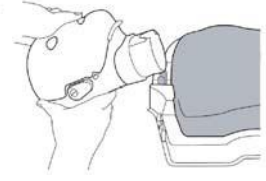


Figure 2

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

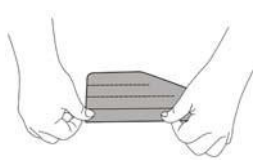


Figure 3a

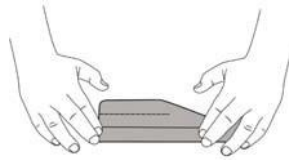


Figure 3b

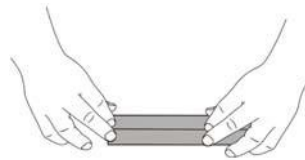


Figure 3c

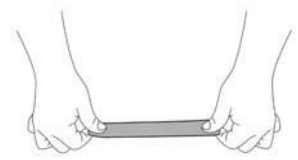


Figure 3d

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

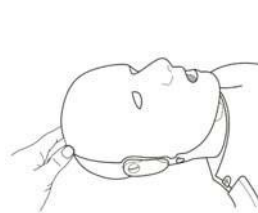


Figure 4

5. Insert the folded Lung-Bag into the mouth of the manikin. The plastic adaptor must face away from the manikin for connection to the ventilation monitoring cord (Figure 5).

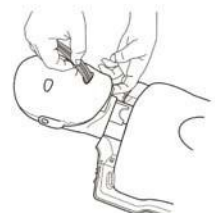


Figure 5

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

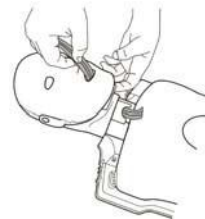


Figure 6

7. Grasp the Lung-Bag and finish pulling it through the neck of the manikin. Connect the plastic adaptor to the ventilation monitoring cord. (Figure 7).

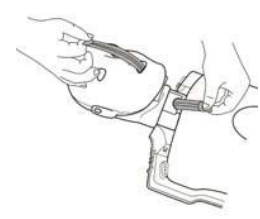


Figure 7

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

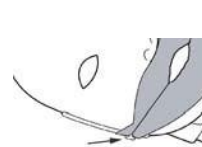


Figure 8

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

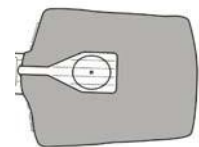


Figure 9

10. Then position the Lung-Bag on top of the compression plate (the semi-rigid 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.

TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE ISSUES	SOLUTIONS
CPR MONITOR		
<p>CPR 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 CPR Monitor Batteries are not installed, need replacing or are not inserted correctly in the CPR Monitor CPR Monitor may be clogged with plastic dust, interrupting the signal to the Monitor CPR Monitor needs to be replaced 	<ul style="list-style-type: none"> Compress the chest until the beep is audible from the CPR Monitor at 2"-2.4" Install or replace batteries into CPR Monitor (back of manikin, left shoulder area) - requires 2-AA (1.5V) batteries Remove CPR Monitor and blow out dust – then replace CPR Monitor and reconnect Exchange CPR Monitor with working manikins (if available) to determine if CPR Monitor needs to be replaced
CPR Monitor lights are all on	<ul style="list-style-type: none"> Batteries are running low 	<ul style="list-style-type: none"> Replace batteries
CPR Monitor red light is blinking	<ul style="list-style-type: none"> This is normal after replacing batteries, manikin is paused or is connecting to CPR Feedback app - may blink up to 10 minutes to indicate ready status 	<ul style="list-style-type: none"> Commence or resume compressions - blinking will stop and feedback rate signals will begin
MANIKIN TORSO AND FACE-SHIELD/LUNG-BAG		
Cannot hear a beep 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 CPR Monitor CPR Monitor may be broken Batteries may be dead or incorrectly installed 	<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 batteries

TROUBLESHOOTING GUIDE

(Continued)

SYMPTOM	POSSIBLE ISSUES	SOLUTIONS
MANIKIN TORSO AND FACE-SHIELD/LUNG-BAG (continued)		
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 Adult 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 Neck of Lung Bag twisted Excessive residual moisture in Lung Bag Breath Sensor not connected to Lung Bag properly 	<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 Remove Lung bag and reinstall in accordance with the Face-Shield / Ventilation Lung-Bag instructions Replace lung bag, see Face-Shield / Ventilation Lung-Bag instructions
<p>Manikin torso will not stay closed</p> <p>Manikin torso opens when breaths are given</p>	<ul style="list-style-type: none"> Tabbed latches at shoulders may not be securely closed Chest frame may be stretched from improper opening of torso Tabbed latches at shoulders are broken from improper opening of torso 	<ul style="list-style-type: none"> Close tabs at shoulders – a snap will be heard when shoulder tabs are properly latched Open torso and attempt to reverse stretched out frame by pushing it in the opposite direction Torso Frame needs to be replaced (RPP-AFRAME-1)*

TROUBLESHOOTING GUIDE

(Continued)

SYMPTOM	POSSIBLE ISSUES	SOLUTIONS
MANIKIN TORSO AND FACE-SHIELD/LUNG-BAG (continued)		
Rattling in chest	<ul style="list-style-type: none"> Piston Plug may be loose inside manikin 	<ul style="list-style-type: none"> Remove CPR Monitor Assembly, reposition Piston Plug and reinstall CPR Monitor per Series 2000 Add-On Kit Installation Guide
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 sleeve in chest with part RPP-APLATE-1 (compression assembly includes chest plate, screw and sleeve)*
BLUETOOTH and APP		
Manikin won't connect to smart device	<ul style="list-style-type: none"> Smart device battery and/or CPR Monitor battery may be low Bluetooth (BT) not enabled or not available on smart device Smart device too far from manikin Smart device not compatible Smart device / CPR Monitor needs reset or restarted Smart device not finding CPR Monitor signal 	<ul style="list-style-type: none"> Change batteries in manikin Make sure BT is enabled on your Smart Device and you can see the BT symbol at the top of the screen; If you do not see the symbol, go into the settings on your device and enable BT Make sure manikin is within operating distance of approximately 20 feet from the smart device. During the connection process you may need to have the devices within 5 feet for easier connection <p>Ensure your device is running the latest version of its operating system.</p> <p>For Apple devices: Compatible with iPhone, iPad and iPod touch. Requires iOS or iPadOS 13.0 or newer.</p> <ul style="list-style-type: none"> For Android devices: Requires Bluetooth® LE or 5.0 enable device running Android 5.0 or newer.



WARRANTY

One Year Limited Warranty

1. **WARRANTY COVERAGE:** PRESTAN offers a LIMITED WARRANTY against any defects in workmanship or materials under normal use with respect to its PRESTAN PROFESSIONAL ADULT SERIES 2000 TRAINING MANIKIN.
2. **WARRANTY PERIOD:** PRESTAN warrants the PRESTAN PROFESSIONAL ADULT SERIES 2000 TRAINING MANIKIN for one (1) year from the date of purchase. Any component of the PRESTAN PROFESSIONAL ADULT SERIES 2000 TRAINING MANIKIN which proves defective with twelve (12) months from the date of purchase will be repaired or replaced, at PRESTAN's option, free of charge to the owner. The owner is responsible for shipping and handling fees to the place which PRESTAN designates.
3. **WARRANTOR'S RESPONSIBILITIES:** PRESTAN will repair or replace (at PRESTAN's option) a defective warranted component subject to the provisions of Section 2 without charge except for transportation costs. OWNER'S SOLE AND EXCLUSIVE REMEDY AGAINST PRESTAN SHALL BE FOR THE REPAIR OR REPLACEMENT OF DEFECTIVE GOODS AS PROVIDED HEREIN. Repair or replacement of any component of any PRESTAN PROFESSIONAL ADULT SERIES 2000 TRAINING MANIKIN does not extend this limited warranty or begin a new limited warranty period.
4. **CIRCUMSTANCE NEGATING WARRANTY AND OTHER LIMITATIONS:**
 - a. PRESTAN reserves the right to refuse warranty service or replacement when product failure is due to misuse, mishandling, misapplication, accident, neglect, improper installation, modification, use of unauthorized parts or attachments, adjustments or repair performed by anyone other than PRESTAN or its authorized agent, or any causes other than defective workmanship or material.
 - b. This limited warranty does not cover abrasion, abnormal use, damage caused by mishandling, neglect or unauthorized modification. This warranty is void if the PRESTAN PROFESSIONAL ADULT SERIES 2000 TRAINING MANIKIN is structurally altered.
 - c. Owner must provide proof of the date of purchase, place of purchase and the purchase price in order to obtain service under this limited warranty.
 - d. PRESTAN makes no warranty other than as contained herein. No agent, representative, dealer or employee of PRESTAN has the authority to alter the obligations or limitations of this limited warranty.
5. **LIMITATIONS OF IMPLIED WARRANTIES AND DAMAGES:**
 - a. Any and all implied warranties on the PRESTAN PROFESSIONAL ADULT SERIES 2000 TRAINING MANIKIN, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXCEED IN DURATION THE RESPECTIVE TERMS OF THIS LIMITED WARRANTY WHICH BEGINS WITH THE DATE OF PURCHASE. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.
 - b. PRESTAN SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THE PRESTAN PROFESSIONAL ADULT SERIES 2000 TRAINING MANIKIN OR THE BREACH OF THIS OR ANY OTHER EXPRESSED OR IMPLIED WARRANTY. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Any and all damages awarded for any breach of this limited warranty shall be limited to the amount of the purchase price.
6. **WARRANTY SERVICE.** To obtain warranty service contact your PRESTAN Authorized Distributor, or for information about PRESTAN, visit our website at www.prestanproducts.com.
7. **RIGHTS UNDER STATE LAW:** This warranty gives you specific legal rights and you may have other rights which vary from state to state.



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.