

TruMan Trauma Adult User Manual



TruMan Trauma Adult is a durable, anatomically accurate trauma simulator designed for realistic emergency procedure training.

It supports key interventions such as chest tube insertion, CPR, needle decompression, and cricothyroidotomy, providing lifelike anatomical landmarks and tissue response for effective hands-on learning.

The modular design allows quick consumable replacement, minimizing downtime and ensuring continuous use in busy training environments.

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Product Specifications

Product Name: TruMan Trauma Adult

Product Code: TTA0001

Product Weight: 17.5kg

Full shipment weight: 27.5kg

Full shipment dimensions: 110.5(L) x 46.5(W) x 52.5(H) cm

Package Contents

The package contains:

- x1 TruMan Trauma Adult model (TTA0001)
- x1 TruMan Trauma Adult carrier case
- x1 100ml TruCorp lubrication (TL001)
- x1 Wrap Around Neck Skin (RSN2005)
- x5 Larynx Insert (NLX050) 1 attached, 4 extra
- x1 set of Torso Inserts – Chest Drain (CDNCN2)

Recommended Equipment Sizes

The recommended equipment sizes to be used with the TruMan Trauma Adult are as follows:

- Size 6.0-7.0mm ID for nasal intubation
- Size 7.0-7.5mm ID for oral intubation
- Size 3-4 for LMA laryngeal masks
- Similar respective sizes for other supraglottic devices
- Size 6 Anaesthetic face mask
- 14-gauge needle decompression needle, minimum 2-inch (5cm) length
- 32 Fr chest tube

List of Procedures Facilitated by TruMan Trauma Adult

- Oral (endotracheal) intubation
- Nasopharyngeal intubation
- Fibre optic and video laryngoscopy
- Direct laryngoscopy with ET intubation

- Supraglottic airway device use (including LMAs)
- Combi tube insertion
- Nasogastric tube insertion and care
- Bag-valve-mask ventilation (BVM)
- Single-lung isolation techniques
- Front-of-neck airway (FONA) – needle and surgical cricothyroidotomy
- Percutaneous tracheostomy
- Tracheostomy and tracheotomy care
- Chest tube insertion in the 4th/5th/6th intercostal space (surgical incision, blunt dissection, pleural perforation, finger sweep)
- Needle decompression of pneumothorax (2nd and 5th intercostal spaces)
- Pelvic binding
- Identification of stomach distension during ventilation

Initial Set-up Information

- Gently remove the model from the carrier case
- Ensure the body is lying flat in the supine position
- The head can be placed in a neutral or sniffing position by rotating the head, if required for direct laryngoscopy
- Check the volume of air in the tongue is sufficient, it can be inflated or deflated by a syringe to adjust the difficulty during intubation if desired
- Check the needle decompression and torso inserts are connected to the air valves and placed in the correct position
- Spray generous amounts of lubrication provided with the model (TL001) on the airway and equipment prior to use

Replacing Consumables

When replacing consumables please use the instructions below:

Replacing the Larynx Insert

To replace the larynx insert you must first check the head is in the neutral position. Remove the neck skin and larynx insert. When inserting the new larynx please use the notches highlighted in the image below and that it is pushed downwards to secure the insert in place.



Replacing the Chest Drain Inserts

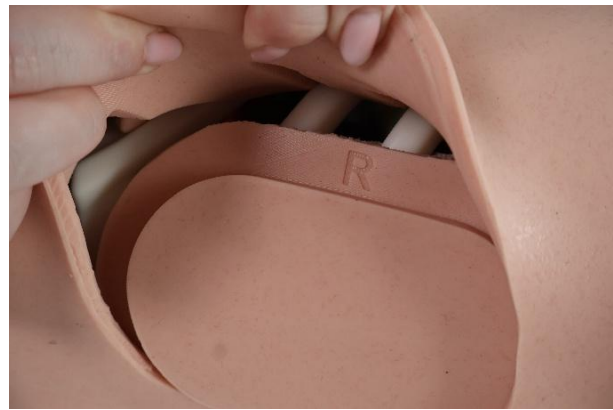


To replace the chest drain inserts, gently pull back the chest skin from around the insert and lift it away from the rib structure.

The chest drain inserts are labelled L for left and R for Right, corresponding to each side of the torso.

To replace the insert, align the chest drain insert with the corresponding opening on the manikin's chest skin, and press the connectors on the

underside of the insert into the cavities in the manikin's visible rib cage. A small amount of lubrication may be applied to assist with sliding it into place.



Replacing Parts

When replacing parts please use the instructions below:

Replacing the Chest Skin

Detach the existing chest skin by releasing the velcro fastenings at the back of the manikin and peel the skin away from the torso.



Align the skin with the legs of the manikin and pulling towards the torso avoiding twisting or bunching.



Guide the skin so that each silicone rib marker is seated into the corresponding intercostal space starting from the bottom working your way up one by one.

Align the tongue bulb, switches and the USB portal with the corresponding openings on the chest skin.

Fasten the Velcro on the rear panel, applying firm, even pressure along the seam to secure the skin in place.



Replacing the Head

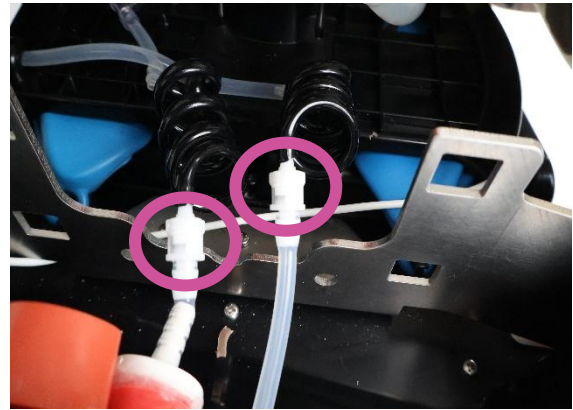
Removing the Head:

Release the velcro fastenings on the back of the chest skin to give better access to the head/neck area.

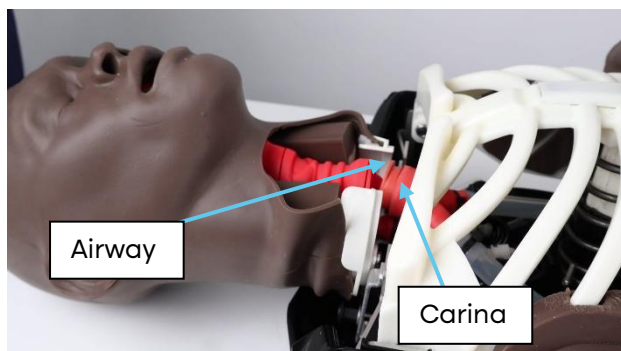
You should now be able to see the black spring plungers on the metal head bracket, pull both plungers outwards at the same time then push down and outward to fully release it from the metal bracket on the torso.



Locate the black coiled tubing connecting the head to the torso, there should be two. Simply twist the connector anticlockwise to release.



Grip the connection point of the airway and the carina and gently pull to detach.



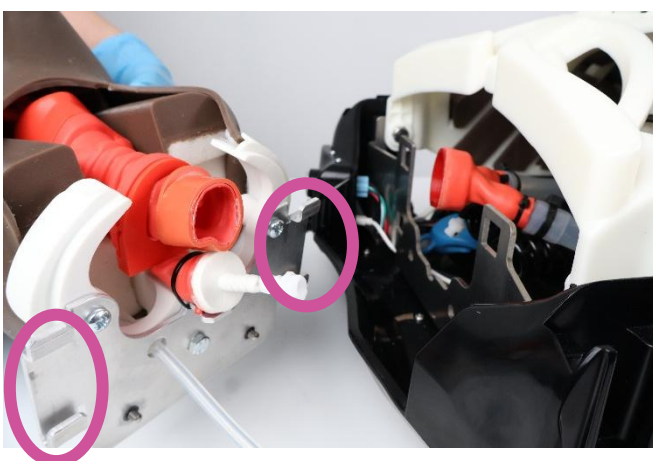
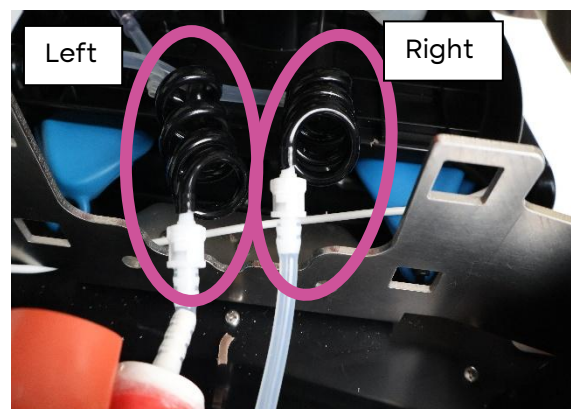
Reattaching the Head:

Align the head with the torso and locate the coiled tubing on the inside of the torso.

Gently pull coiled tubing out of torso and twist to connect it to the head using the guide below:

- Oesophagus connects to the left coiled tubing
- Tongue connects to the right coiled tubing

The metal bracket on the head has 4 tabs on each corner which align to holes on the torso bracket, as shown in the below image:



Push the head into the torso, making sure the tabs on the metal head bracket go through the holes in the torso bracket.

Once they are through the holes, push the head up and you should hear an audible click, which is the sound of the spring plungers locking the head into place.

When the head is connected to the torso, you can push the airway and carina connectors together to ensure a tight seal on the airway. Reposition the chest skin ensuring the velcro has reattached.



Troubleshooting & FAQs

- Issues with connectivity/timeout?
 - Close the app, turn off the manikin and reconnect.
- Uneven chest rise during BVM/ correct intubation?
 - Give 3-5 excessive breaths to free the chest mechanics.
- Problems powering on the unit?
 - Ensure the USB-C power cable is plugged into the recommended adaptor.
- Issues with the SmartResus app?
 - Ensure you have downloaded the latest release from the App Store or Google Play store
- Issues with a specific feature?
 - Contact Trucorp to discuss.
- Optimal Chest Compression
 - The spring rate is based on 45kg of force for 50mm for travel as per the average male.

Care and Maintenance

The model should be treated with care, as though it is a real-life clinical environment. When the product is not in use, please store in the black carrier case provided.

Store in clean, dry conditions away from heat and direct sunlight; avoid contact with metals, solvents, oils or greases and strong detergents.

Alcohol wipes (minimum 75%) may be used on the airway in accordance with the manufacturer's instructions.

Operating Environment

Temperature: Operate the product in a well-ventilated area. Avoid placing it in direct sunlight or near heat sources as excessive heat can damage the internal components.

Humidity: Keep the product in a dry environment. High humidity can lead to condensation, which may cause electrical shorts or other malfunctions.

Dust: Keep the product away from dusty areas. Dust accumulation can affect the performance and cooling of the product.

Internal Access:

No User Accessible Components: This product is designed without any user-accessible components inside. Please do not attempt to open the casing or access the internal parts.

Troubleshooting

Refer to the Manual: If you encounter any issues with the product, refer to the troubleshooting section of this manual for guidance or our product "How to" videos.

In response to the recent COVID-19 pandemic, we recommend this additional step to ensure the product is fully sanitised:

Use alcohol spray (minimum 75%) and wipe off. Repeat this for 3-4 times to ensure to kill the virus completely. This method can be used on both the silicone skin and the latex airway. 26

Warranty

TruCorp warrants this product to be free from defects in materials and workmanship, ensuring satisfactory performance for a period of two years from the date of delivery. This warranty provides customers with maximum coverage for each unit.

If a product malfunctions and is confirmed to be defective under warranty, TruCorp will repair or replace it at no cost. However, the warranty is void if the unit shows signs of tampering, excessive heat exposure, damage from sharp instruments, improper use, or any conditions beyond TruCorp's control. Consumable items such as wrap-around neck skins and larynx inserts are not covered under warranty and will not be replaced. Damage resulting from misuse is not covered and may incur additional charges.

For full terms and conditions, visit: [TruCorp Warranty Policy](#)

Please direct all warranty and repair inquiries to:



E: info@trucorp.com
Tel: +44 (0) 28 3888 2714
TruCorp Ltd,
33 Waringstown Road,
Lurgan, Co. Armagh,
BT667HH, N. Ireland