

# AT Kelly Torso

## Directions for Use



**Laerdal**<sup>™</sup>  
*helping save lives*



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The AT Kelly Torso is a lifelike manikin, which realistically simulates a male patient. It is specifically designed for training professionals in the practice of pre-hospital trauma skills.

The manufacturing quality of this simulator should provide many sessions of training when reasonable care and maintenance are practiced.

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**Laerdal Recommends:**

Endotracheal tube - Size 7.5 ID to 8.5 ID

Stylet to assist when intubating

Straight or curved laryngoscope blade - Size 3 or 4

Tension pneumothorax decompression -16 or 18-gauge IV catheter

**Items Included:**

- (1) AT Kelly Torso Trainer
- (1) Bladder Replacement Kit
- (1) Manikin Lubricant
- (1) Tank Top
- (1) Carry Case

**Skills Taught:****Airway Management Skills:**

- Oral Intubation
- Nasal Intubation
- Oropharyngeal airway insertion
- Nasopharyngeal airway insertion
- Digital Intubation
- EOA/EGTA/PTL
- Combitube® Insertion
- Suctioning

**Circulatory Skills:**

- Internal Jugular Cannulation
- Subclavian Cannulation

**Other Skills:**

- Pneumothorax Decompression (Bilateral Mid-Axillary Sites and Bilateral Mid-Clavicular)
- Chest Compressions
- Abdominal Thrust
- Stomach Auscultation to verify proper airway positioning

**Preparing Manikin for Use:**

**Head:**

Head is connected to torso with a long bolt at base of neck, secured with a wing nut.

To remove:

1. Unfasten chest skin at shoulders.
2. Pull it back to expose chest cavity.
3. Lift hard chest plate to locate lungs and esophagus.
4. Lift esophagus, trachea and lungs out of way.
5. Unscrew and remove the wing nut and washer at base of neck.
6. Head will now slip out of torso.

To attach, reverse procedure.

**Lungs:**

Lungs may be removed from bronchial tubes by unscrewing them from connectors. To replace, reverse procedure.

**Abdominal Thrust:**

To remove abdominal thrust module, remove screws from each side of manikin. Module will slide out. To replace, reverse procedure.

**Instructions for Use:****Airway Management:**

- Spray inside of pharynx, both nostrils and all intubation tubes with a liberal amount of Manikin Lubricant or liquid soap.
- Recommended endotracheal tube size is 7.5 ID to 8.5 ID.
- The use of a stylet to assist when intubating is recommended.
- Straight or curved laryngoscope blades, size 3 or 4 are recommended.

**Manually Generated Carotid Pulse:**

Locate red carotid pulse bulb on right side of manikin. Squeeze bulb to generate desired pulse rate.

### **Tension Pneumothorax Decompression:**

1. Locate black blood pressure bulb on right axillary side of the torso.
2. Tighten air release knob so that no air escapes as you pump bulb.
3. Pump bulb several times to prepare each of four (4) sites for decompression.
4. Insert either a 16 or 18 gauge IV catheter.

*Puncturing correct intercostal space will allow "hissing of air" as chest is decompressed.*

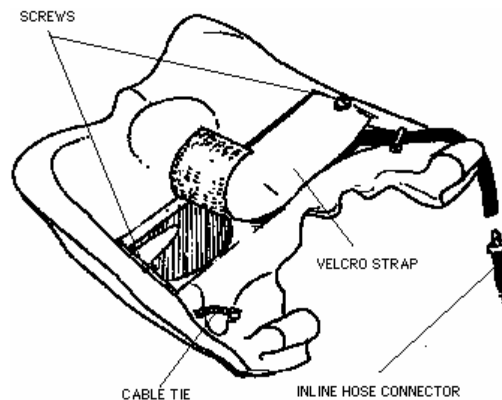
### **To repair external puncture sites:**

1. Use a tongue depressor or small spatula to apply a thin layer of putty wax to puncture site.
2. Smooth out to desired appearance.

### **To replace internal bladder bags:**

#### **(A) Bilateral Mid-Clavicular Sites:**

- Remove chest skin from torso.
- Lift chest plate exposing underside.
- Remove screws that secure Velcro® strap. (Figure 1)



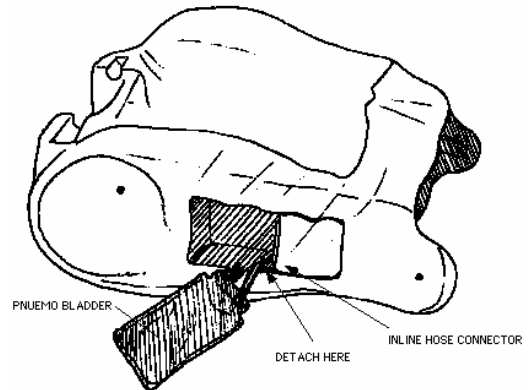
**Fig. 1**

- Remove foam pads.
- Disconnect bladder hose from inline hose connector, being sure hose does not fall through hole and into torso.
- Remove bladder from site cavity and slip hose out of cable tie.

- Trim bladder tubing to match original tubing length to fit this manikin style. Insert new pneumothorax bladder into site cavity and reposition hose under cable tie.
- Reconnect hose to inline hose connector.
- Replace foam pads over pneumo bladders.
- Secure Velcro® strap to chest plate with screws removed previously.
- Return chest plate to proper position on torso.
- Replace chest skin over torso, being sure to secure skin at shoulders.

**(B) Bilateral Mid-Axillary Sites:**

- Remove chest skin from torso.
- Remove pneumo pad from side of torso. (Figure 2)
- Disconnect bladder hose from inline hose connector, being sure hose does not fall through hole and into torso.
- Remove bladder from pneumo pad and discard.
- Trim bladder tubing to match original tubing length to fit this manikin style. Connect new bladder hose to inline hose connector.
- Insert new pneumo bladder into pneumo pad.
- Replace chest skin over torso, being sure to secure skin at shoulders.



**Fig.**  
2

**Central Vein Cannulation:**

Two central veins may be cannulated: internal jugular (central approach only) and subclavian.

1. Attach IV bag and tubing to central vein tube located on right side of manikin. (It is in same location as blood pressure bulb and carotid pulse bulb).
2. Fill IV bag with desired amount of fluid and infuse.

3. Aspirate line using a needle and large syringe until fluid is drawn.

To remove, reverse procedure.

### **Care and Maintenance:**

1. Clean with mild soap and water; do not submerge manikin or parts in cleaning fluids or water.
2. Use only on clean surface. Avoid felt tipped markers, ink pens, acetone, iodine or other staining products and avoid placing the manikin on newsprint or inked lines of any kind.
3. To ensure longevity, each manikin should be cleaned after each training session and a general inspection should be conducted regularly.
4. Modules and all other parts should be drained and air-dried thoroughly before storage and disinfected when needed. After use of injection pads (*use water only*), accumulated water should be squeezed out. Do not store wet foam pads in the skin. To prevent mildew or mold, pads can be soaked in a mild solution of disinfectant and water or bleach and water. Squeeze excess solution from pads, allow them to dry, then store or reinsert in manikin.
5. Articulating parts will benefit from a light application of talcum powder prior to training sessions.
6. Store properly between teaching sessions.

### **Warranty**

Laerdal Medical warrants to the purchaser that its products are free from defects in material and workmanship for a period of one (1) year from the date of purchase by the original user. During the designated one (1) year period, Laerdal Medical will, upon receipt of a product found to be defective due to materials or workmanship from the purchaser and notification in writing of the defect, at its option repair or replace any parts found to be defective or the entire product. Warranty period does not renew with replacement or repair of original product.

Products found to be defective and notification of defects may also be sent to the authorized Laerdal Medical dealer from whom the product was purchased. All postage, shipping or handling charges shall be the sole responsibility of the purchaser.

Laerdal Medical is responsible for the effects of safety, reliability and performance of its product(s) only if:

- service, repair, readjustment or modification is carried out by Laerdal Medical or persons authorized by Laerdal Medical.
- the electrical installation of the room where the product is used complies with pertinent equipment requirements.
- the product is used in the proper manner in strict compliance with its Directions for Use.

Laerdal Medical shall not be liable under this warranty for incidental or consequential damages, or in the event any unauthorized repairs or modifications have been made or attempted, or when the product, or any part thereof, has been damaged by accident, misuse or abuse. This warranty does not cover batteries, fuses, normal wear and tear, excessive use, staining, discoloration or other cosmetic irregularity which does not impede or degrade product performance.

Some states in the USA do not allow the exclusion or limitation of incidental or consequential damages, so those limitations or exclusions may not apply to you.

There are no other express or implied warranties, whether of merchantability, fitness or purpose, or otherwise, on the product, its parts and accessories.

**Replacement Parts:**

**Product Number:**

1000492  
1002996  
1001869  
1000871  
1000116

9500-02-0014

1000068

1000262

1000658

9500-10-0012

CC-0020

**Description:**

Intubation Head

Chest Plate

Pnuemo Assembly

Pads, Pneumo - Left

Abdominal Thrust

Module

Bulb Assembly with

Connectors

Pulse Simulator

Assembly

Manikin Lubricant

Bladder Replacement

Kit

Tank Top

Carry Case

Please contact Customer Service Representatives for more information on Replacement Parts in other skin tones

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