

# Tuff Kelly

## Directions for Use



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



# Cautions and Warnings

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Read the Directions for Use and follow all the instructions for Tuff Kelly. Save these instructions for future reference.



## **Safety Warning Symbol**

Look for this symbol to point out important manikin safety precautions and other information that should be carefully read and closely followed to promote safety, help prevent accidents and reduce operating and maintenance problems.

Failure to obey a caution or safety warning, or failure to follow use instructions could cause immediate damage to the manikin, damage that appears at a later time, accidental property damage, and could result in serious injury to you or to others.

## **General Information**

Conform to the safety protocols of your country, follow all industry safety standards and adhere to the safety and health procedures of any organization utilizing tuff Kelly to provide training and/or competitive events intended to demonstrate or evaluate user rescue response skills or competency.



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## **Introduction**

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Professionals involved in responding to emergency situations must know how to carry out rescue and recovery procedures in a safe and effective manner to lessen injuries and save lives.

Since 1991, the Tuff Kelly manikins have been the most recognized, versatile, practical and durable extrication and rescue training system.

## **Description**

The rugged and true-to-life Tuff Kelly manikins are full-body (5'5"/1,62 m) and articulated simulators specifically designed and intended to use for training professionals to master the skills of a wide variety of rigorous emergency rescues, transportation protocols and extrication techniques.

Tuff Kelly's durability, low maintenance requirements and opportunity to replace worn or broken parts makes it a product of superior value and prolong useful life.

## **Items included**

- (1) Tuff Kelly Manikin
- (1) Coveralls
- (1) Boots
- (1) D Ring Waist Belt
- (1) Directions for Use

## **Skills Taught**

- Confined space rescue
- Pole-top rescue
- Horizontal rescue
- Vertical rescue
- Bucket rescue
- Transportation protocols
- Extrication techniques

## Directions for Use

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For all Tuff Kelly models.



### **Heavy Object!**

The Tuff Kelly manikin comes in three (3) weight categories:

- 100 lbs (45,5 kilos) – 101-00001
- 150 lbs (68,2 kilos) – 101-05001
- 175 lbs (79,5 kilos) – 101-07501

Always use safe and approved lifting and handling techniques when positioning the Tuff Kelly weighted manikins for training use, cleaning or other maintenance.

***DO NOT stand under the manikin while it is being elevated and/or lowered.***

***DO NOT drop the manikin while tethered.***



***Note: For safety purposes, use the eyebolt only to move, position, elevate/hoist and to store Tuff Kelly manikins.***



### **Before You Begin!**

Your Tuff Kelly has been carefully inspected before shipment. Unpack and inspect the manikin; check for damage or missing parts. In the case of a problem, in the U.S.A. call 1-877-LAERDAL (523-7325), fax toll-free 1-800-227-1143, email

[customerservice@laerdal.com](mailto:customerservice@laerdal.com) or contact your local representative for service and/or to report the problem. In Canada, call Customer Service at 1-888-LAERDAL (523-7325) or Français 1-800-567-9987, fax to 1-416-298-8016, or email at [savelives@laerdal.ca](mailto:savelives@laerdal.ca).

***Opportunity!*** While performing routine cleaning or maintenance, inspect Tuff Kelly to check for possible worn or broken parts.



***DO NOT use the Tuff Kelly*** if any deterioration, damage or missing parts are observed. Call 1-877-LAERDAL (523-7325), fax toll-free 1-800-227-1143, email [customerservice@laerdal.com](mailto:customerservice@laerdal.com) or contact your local representative to report immediately.

## Preparation for Use

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Use a clean working surface during assembly to prevent product from getting dirty.

- Tools required (*not included*):
  - Wrench (½ inch)
  - Pliers

Gather the waist attachment hardware:

- Lock Nut (2)
- Washer (2)
- All Thread Rod (1)

See Fig. 3 & Fig. 4 to assemble the legs & pelvis to the manikin's torso.  
To detach reverse the procedure.

### Chest Plate

Fits in the Tuff Kelly torso.

To remove:

1. Detach Chest Plate by applying pressure to center of plate.
2. Work your fingers under edge of plate and lift out.

To insert:

1. Replace Chest Plate over torso cavity.
2. Work edges into groove of torso cavity.

### Belly Plate

Fits in the Tuff Kelly pelvis.

To remove:

1. Detach Belly Plate by applying pressure to center of plate.
2. Work your fingers under edge of plate and lift out.

To insert:

1. Replace Belly Plate over pelvis cavity.
2. Work edges into groove of pelvis cavity.



**DO NOT** perform any unauthorized modification to the Tuff Kelly manikin or equipment.



## Inspection for Storage and Next Use

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### **Always thoroughly inspect the manikin**

Your Tuff Kelly must be inspected before and after each use and/or if the manikin has been dropped to warrant that it is safe to handle. Verify that the head is securely fastened to the torso. Routinely check the pelvis bracket and leg attachment, head and torso connection for hardware wear and tear to ensure that the brackets are not bent or damaged in any way and all hardware is in its proper place (See Fig. 1 for Pelvis and Fig. 2 for Torso).

**DO NOT use the Tuff Kelly manikin** if any deterioration or damage to the Pelvis Hardware (Fig.1), the Attachment Hardware of the Head and Torso Assembly (Fig. 2) and/or the overall manikin (Fig. 1) is observed or suspected (ex: bent pelvis/torso brackets, missing or broken parts, signs of rust, cracks, chips, etc...).

In the U.S.A. call 1-877-LAERDAL (523-7325), fax toll-free 1-800-227-1143, email [customerservice@laerdal.com](mailto:customerservice@laerdal.com) or contact your local representative for service and/or to purchase factory approved replacement parts. In Canada, call Customer Service at 1-888-LAERDAL (523-7325) or Français 1-800-567-9987, fax to 1-416-298-8016, or email at [savelives@laerdal.ca](mailto:savelives@laerdal.ca).

## Cleaning Instructions

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Tuff Kelly's unique construction consists of a tough, high impact PVC exterior supported by an internal steel frame of cables and springs for movement and flexibility.

To ensure durability, thoroughly clean and disinfect the Tuff Kelly manikin and accessories after each use. Wash coveralls according to label instructions.

1. Wipe clean with a soft damp cloth using mild soap and water or disinfecting liquids.



DO NOT use harsh powders or abrasive cleaning pads to clean Tuff Kelly.

2. To prevent mildew and/or rust, always allow the manikin, accessories and clothing to completely dry before storing.
3. Articulating parts benefit from a light application of talcum powder prior to training sessions.
4. Avoid felt tipped markers, ink pens, iodine or other staining products and refrain from placing the Tuff Kelly manikin on newsprint or inked lines of any kind to prevent discoloration.
5. Store in a dry, clean environment between training sessions.

## Disposal

Dispose of Tuff Kelly in accordance with local and/or country regulations.

## Warranty

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Thank you for purchasing this Laerdal Tuff Kelly manikin. We hope that you will be happy with it. In the event that your Tuff Kelly products need warranty service, please contact Laerdal Medical or the Authorized Dealer from whom they were purchased.

### Your warranty

By this limited warranty, Laerdal Medical, warrants to the purchasers the Tuff Kelly manikin to be **free from defects in materials and workmanship** for a time period of one (1) year from the original date of purchase.

If during this designated one (1) period of warranty the product proves **defective due to improper materials and/or workmanship**, Laerdal Medical, the Authorized Dealers, and/or the Authorized Service Centers upon receipt of claim and written notification will without charge for labor or parts, repair or, at Laerdal Medical discretion, replace the manikin or its defective parts upon the terms and conditions set out below.

### Conditions

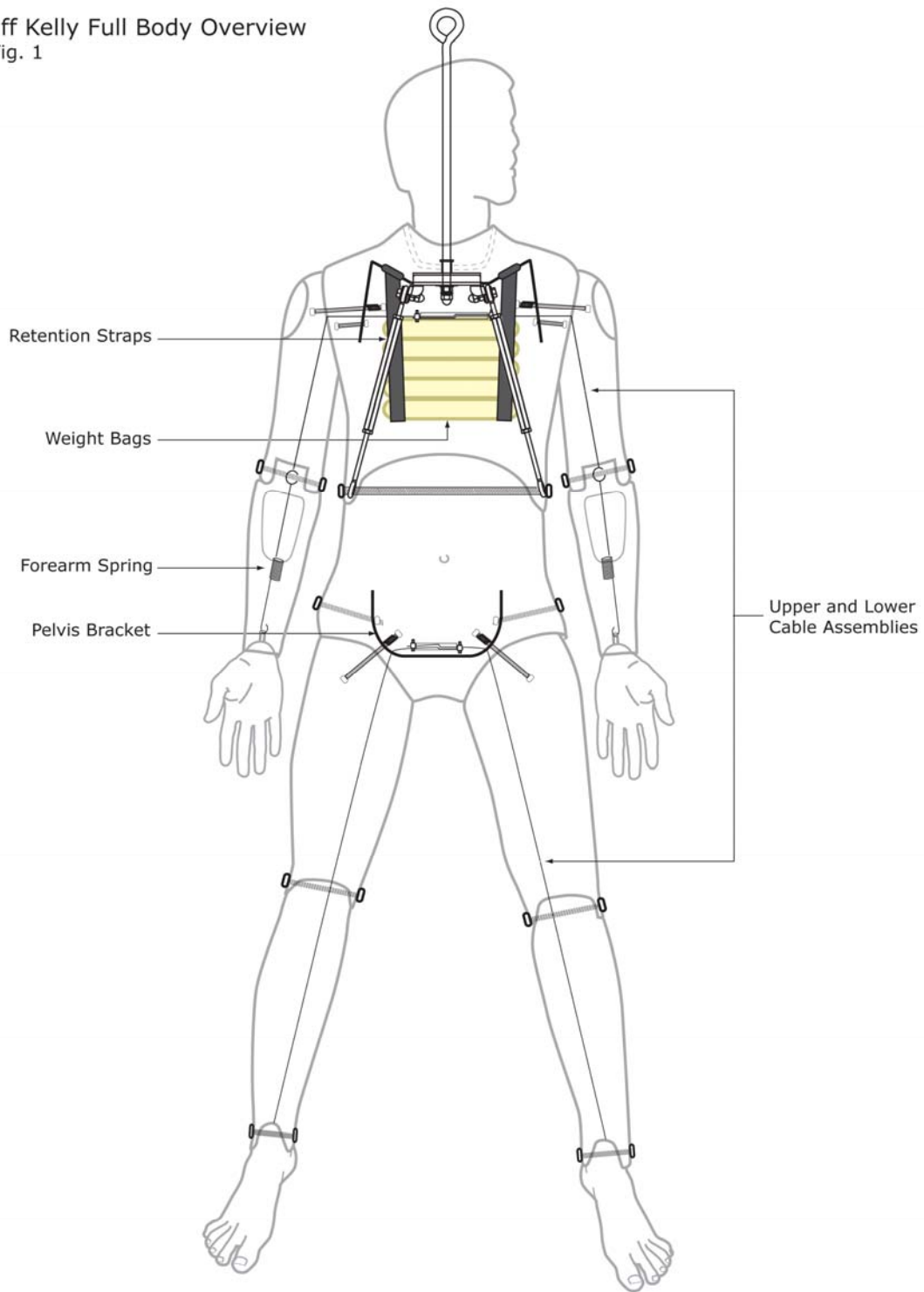
1. This warranty does not apply nor cover damage if the original invoice or sales receipt indicating the original date of purchase, product type and dealer's name cannot be presented together with the defective manikin or its products, accessories, spares, etc.
2. This warranty does not apply nor cover damage resulting from adaptations, modifications, adjustments, or repairs made to the manikin or its products, accessories, spares, etc, done by non-authorized Service Centers, Dealers, or the customer/product end user himself.
3. This warranty does not apply to any of the following scenarios:
  - a. Periodic maintenance and repair or replacement of parts due to normal wear and tear of the manikin, its products, accessories, spares, etc.
  - b. Accidents, lightning, water, fire, improper ventilation or any cause beyond the control of Laerdal Medical.
  - c. Clothing, staining, discoloration or other cosmetic irregularity which do not impede or degrade manikin performance.
  - d. Damage resulting from:
    - o Misuse including but not limited to failure to use the manikin or its products and accessories for their intended use in accordance with Laerdal Medical's instructions.
    - o Use of the product in a manner inconsistent with the technical or safety standards in force in the country and/or organization where it is used.

Laerdal Medical shall not be liable under this Limited Warranty, or otherwise, for any incidental or consequential damage or loss of a commercial nature, nor for any damage constituting injury to property.

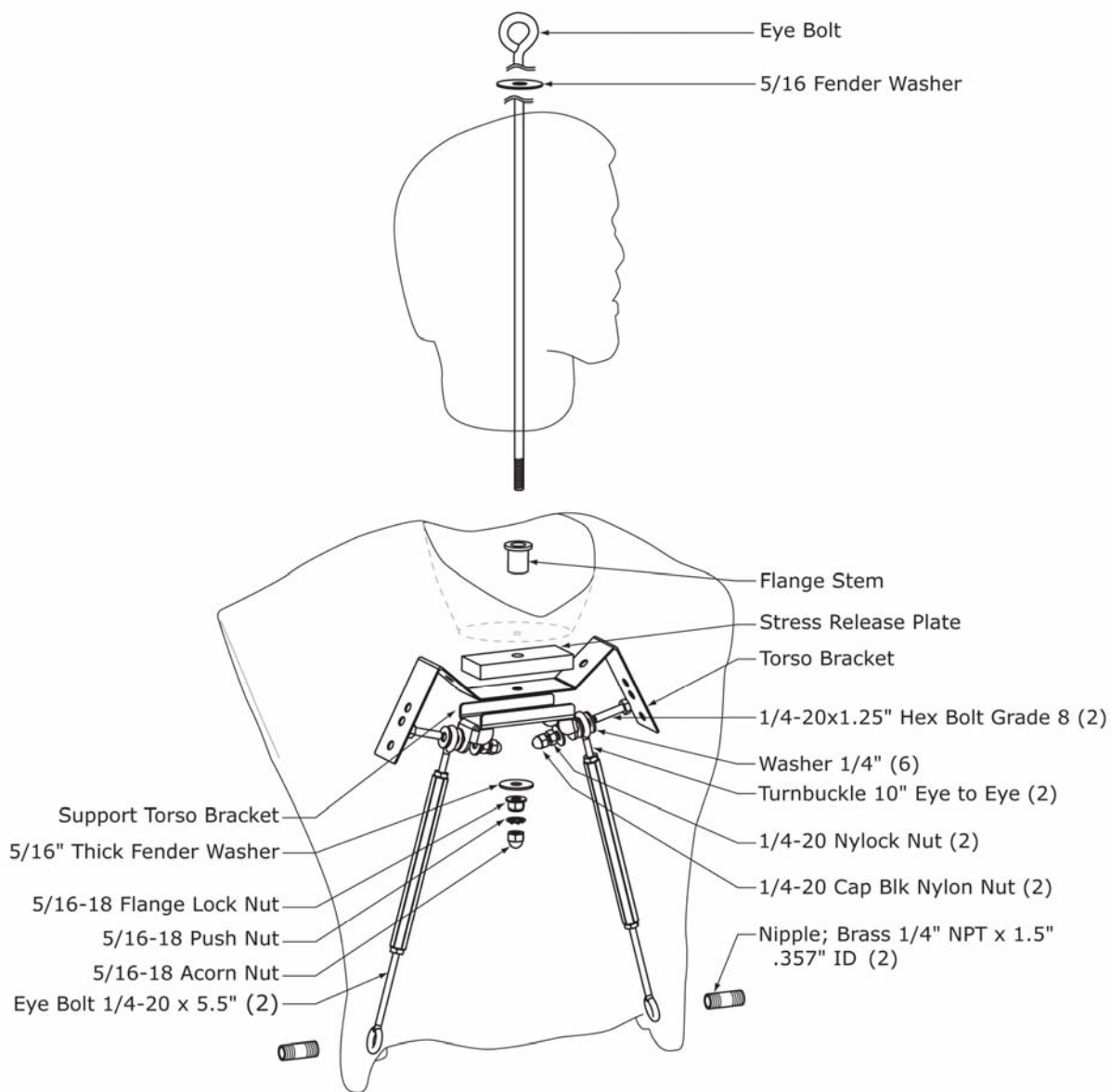
Certain states in the U.S.A. do not allow the exclusion or limitation of incidental or consequential damages, so those limitations or exclusions may not apply to you.

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

Tuff Kelly Full Body Overview  
Fig. 1



Tuff Kelly Head and Torso Assembly  
 Fig. 2



Tuff Kelly Torso & Pelvis Assembly

Fig. 3

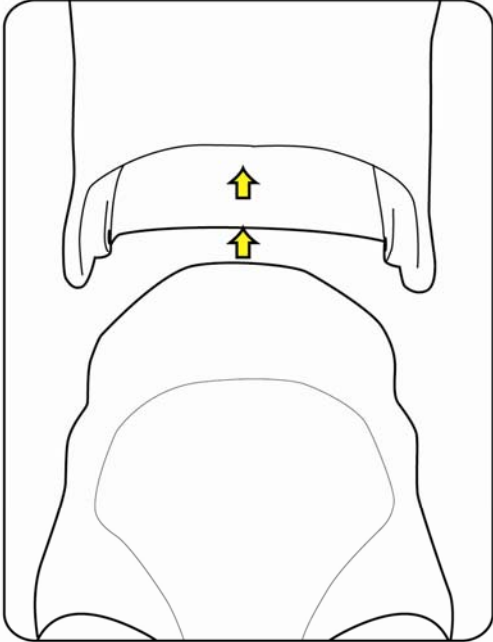
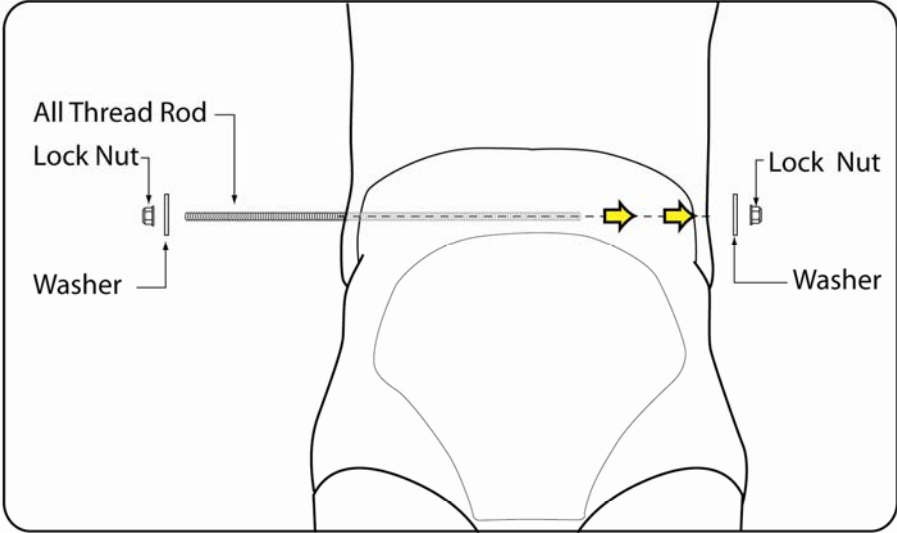


Fig. 4



## Spare Parts

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Items listed below are replacement parts for the Tuff Kelly manikin series in light skin color only. Consult your local representative for availability and part numbers for Tuff Kelly versions in other skin tone.

<u>Product Number:</u>	<u>Description:</u>
101-00150	D Ring Waist Belt (all weight categories)
101-00250	Rescue Belt (all weight categories)
101-00350	Rescue Strap Insert-12 inches (all weight categories)
101-00450	Full Body Harness (all weight categories)
101-00550	Weight Bag (10 lbs each)
101-00650	Complete Right Leg (100 lbs & 150 lbs)
101-00750	Complete Left Leg (100 lbs & 150 lbs)
101-00850	Complete Right Leg (175 lbs)
101-00950	Complete Left Leg (175 lbs)
101-01050	Right Thigh (100 lbs & 150 lbs)
101-01150	Left Thigh (100 lbs & 150 lbs)
101-01250	Right Thigh (175 lbs)
101-01350	Left Thigh (175 lbs)
101-01450	Right Calf (100 lbs & 150 lbs)
101-01550	Left Calf (100 lbs & 150 lbs)
101-01650	Right Calf (175 lbs)
101-01750	Left Calf (175 lbs)
101-01850	Right Foot (all weight categories)
101-01950	Left Foot (all weight categories)
101-02050	Right Arm Complete (100 lbs & 150 lbs)
101-02150	Left Arm Complete (100 lbs & 150 lbs)
101-02250	Right Arm Complete (175 lbs)
101-02350	Left Arm Complete (175 lbs)
101-02450	Right Upper Arm (100 & 150 lbs)
101-02550	Left Upper Arm (100 & 150 lbs)
101-02650	Right Upper Arm (175 lbs)
101-02750	Left Upper Arm (175 lbs)
101-02850	Right Forearm (all weight categories)
101-02950	Left Forearm (all weight categories)
101-03050	Right Hand (all weight categories)
101-03150	Left Hand (all weight categories)
101-03250	Head Assembly (all weight categories)
101-03350	Torso Assembly (all weight categories)
101-03450	Chest Plate (all weight categories)
101-03550	Abdominal Plate (all weight categories)
101-03650	Deltoid Pad (all weight categories)
101-03750	Thigh Pad (all weight categories)
101-03850	Bag Retention Strap
101-03950	Legs Hardware Set



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101-04050	Arms Hardware Set
101-04150	Pelvis Hardware Set
101-04250	Coveralls
101-04350	Boots
101-07950	Pelvis Assembly (100 lbs & 150 lbs)
101-08050	Pelvis Assembly (175 lbs)



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