

Knee for Aspiration Mk 2 User Guide



Designed and manufactured by Limbs & Things Limited,
Sussex Street, St. Philips, Bristol, BS2 0RA, UK.
Telephone: +44 (0)117 311 0500 Fax: +44 (0)117 311 0501
sales@limbsandthings.com www.limbsandthings.com

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Knee for Aspiration Mk 2

Part No: **70020**

This specialised model is used for training in the technique of synovial fluid aspiration.

Improvements

- Simplified design for ease-of-use
- Quick release skin, musculature and patella (with fat pad) to enable rapid changeover of self sealing synovial sac
- Synovial sac connects easily to the fluid bag
- Large capacity fluid bag enables uninterrupted training sessions (time saving feature for large groups of students/trainees)

Skills

- Patient posture and management
- Palpation techniques
- Identifying anatomical landmarks
- Aspirating synovial fluid from the knee joint from both lateral and medial aspects

Features

- Precise palpable anatomy with bony landmarks
- Discrete muscle and skin layers provide realistic tissue and needle response
- Supplied with 'No Trace' marker (non-permanent rapidly fading ink) for illustrating underlying anatomical landmarks

Package supplied

- 1 **Knee Skin Mk 2** Part No: **70021**
- 2 **Knee Aspirant (250ml)** Part No: **70022**
- 1 **Synovial Sac Mk 2** Part No: **70023**
- 1 **'No-Trace' Marker** Part No: **30023**
- 1 **Knee Needle Set** Part No: **30091**
- 1 **Joint & Soft Tissue Injection book** Part No: **BKS1857755642**
- 1 leg assembly with base
- 1 metal stand & 1 litre fluid bag

Components



Knee Skin Mk 2

Part No: **70021**



Knee Aspirant (250ml)

Part No: **70022**



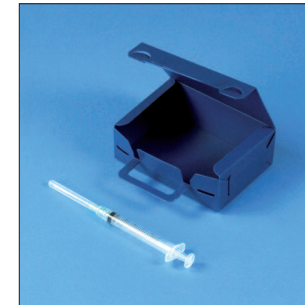
Synovial Sac Mk 2

Part No: **70023**



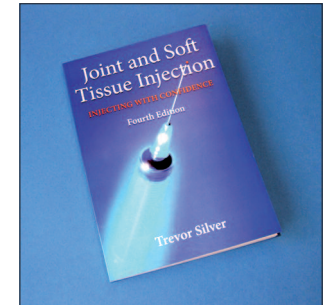
'No-Trace' Marker

Part No: **30023**



Knee Needle Set

Part No: **30091**



Joint & Soft Tissue Injection book

Part No: **BKS1857755642**

Care of products made from latex foam rubber

- Latex foam is a natural product; store away from strong light, preferably in the case provided, to reduce exposure to ozone. Ozone is generated by some electrical equipment including telephones and computers.
- Wash your hands before touching the foam. If the foam is handled after contact with certain metals, eg copper coins, it becomes yellow and discoloured.
- The foam may be washed effectively using any mild soap and rinsed afterwards. 'Vanish'™ soap is very effective. Do not immerse the model in water or allow water to run freely over the surface
- Do not ingest the product and practice normal hygiene after handling the product.

Assembling the Knee

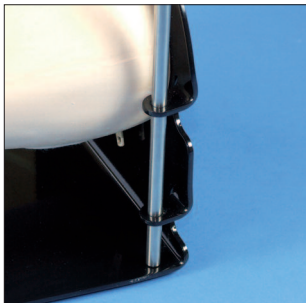
1



Place the Knee onto the work surface.

Screw the two parts of the Fluid Bag Stand together.

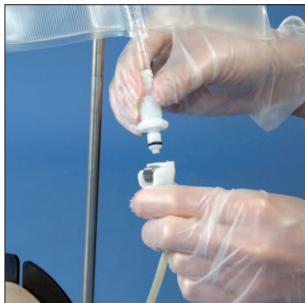
2



Insert the straight end of the Stand into the holes in the Knee base.

Hook the Fluid Bag onto the top of the Stand.

3



Attach the white connector on the end of the Fluid Bag onto the end of the Knee.

Empty one bottle of Knee Aspirant into the Fluid Bag.

Note: To make aspiration easier the contents of the second bottle can emptied into the Bag. This puts the synovial sac under more pressure, making it bulge more, allowing for easier needle placement.

The Knee is ready to use.

1

Removing/attaching Knee Skin and muscle layer

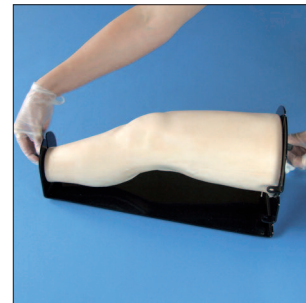
1



Disconnect the white fluid feed connector.

Remove the Fluid Bag and Stand from the base.

2



Loosen the black knobs at either end of the knee.

Remove the Knee from the base.

3



Turn the Knee over ...
... and unzip the Skin.

2

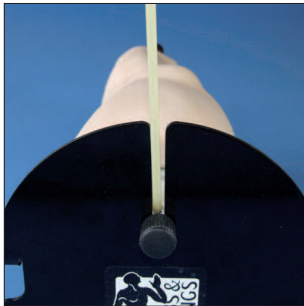
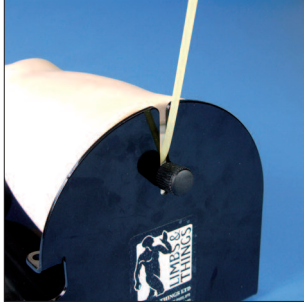
4



Open the back of the muscle layer ...

... and remove the inner anatomy from it. Reverse the procedure to rebuild the Knee.

Note



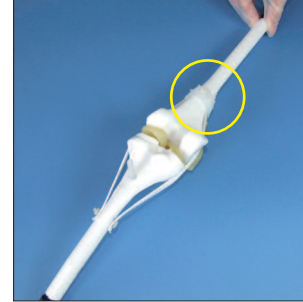
When refitting the Knee back into the base, hold the fluid feed tube clear of the base and the black securing knob. If the fluid feed tube gets trapped synovial fluid will not flow properly from the Bag into the knee.

Ensure the knobs at each end of the Knee are adequately tightened as it may be accidentally pulled out of the base when it is flexed during normal use.

3

Changing the Synovial Sac

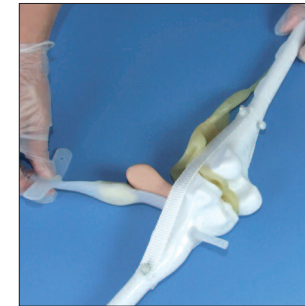
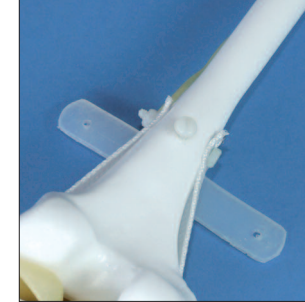
1



Follow the sequence described in 'Removing/attaching the Knee Skin and muscle layer'.

A retaining strap runs around the femur. This holds the patella and fat pad in position.

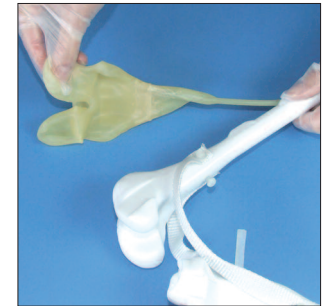
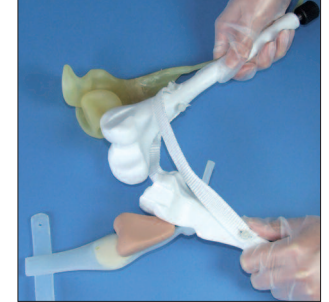
2



Pull both ends of the strap off the retaining lug.

Draw the patellar ligament forward and allow it rest on the tibia.

3

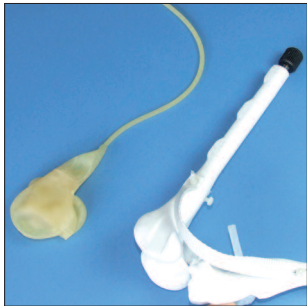


Bend the knee backwards (normal anatomical flexure) to free the Synovial Sac from the knee joint.

Pull the Sac away from the bone.

4

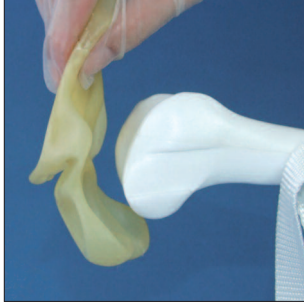
4



Remove the fluid feed tube from the grooves running along the femur.

Remove and discard the old Sac.

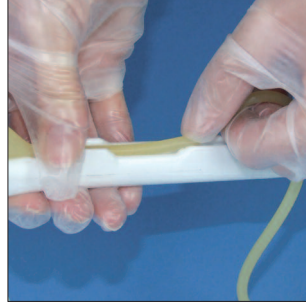
5



Fit the new Sac over the condyles.

Drape the rest of the Sac back over the femur.

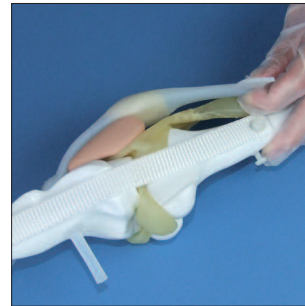
6



Push the fluid feed tube into the groove on the femur.

Butt the condyles of the two Knee parts together and straighten the Knee.

7



Place the collateral ligaments in position within the grooves on either side of the Knee.

Reattach the patellar ligament.

8



Refit the muscle layer.

Refit the Skin.

9

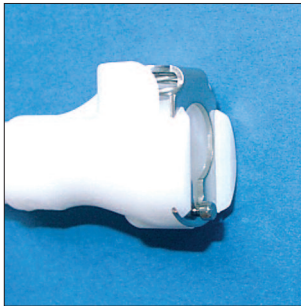
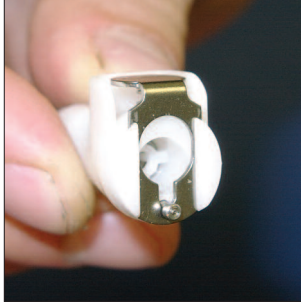


Refit the Knee onto the base.

Connect the fluid feed to the Bag. The model is ready to use

Troubleshooting

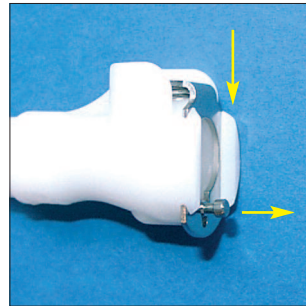
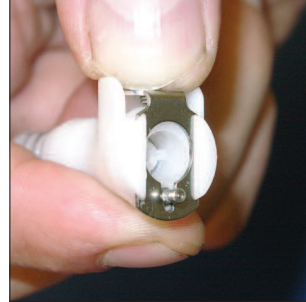
1



Should the connector fail to attach to the Fluid Bag the connector mechanism may need resetting.

Connector in the locked position, preventing items from being attached to it.

2



Unlock the connector by depressing the metal clip.

The connector is reset and ready to use when the pin pops out.

Other models available in the range



Hand & Wrist for Joint Injection

Part No: **30031**



Elbow for Joint Injection

Part No: **30080**



Shoulder for Joint Injection

Part No: **30010**