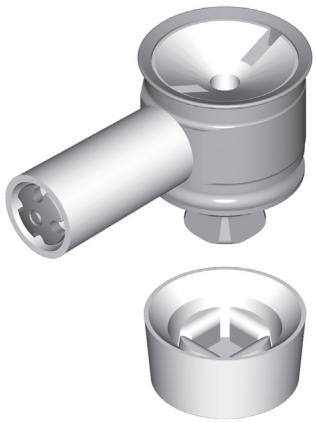
MightyMite® Modular Shuttle Lock w/ Titanium Pyramid Housing



FC100202 MightyMite ® Shuttle Lock w/ Titanium Pyramid Housing w/o Plunger

- Rated to 132 lbs.

Shuttle Lock Assembly:

FC100202 Titanium Pyramid Shuttle Lock w/o Plunger
- **122102 Titanium Pyramid Housing**
- **809810 Shuttle Body**
- **809784 Button Shield**
- **809773 Guide Screw**
- **809729 Latch Pin**
- **809775 Latch Pin Button**
- **809816 Shuttle Lock**
- **809760 Compression Spring**
- **880033 6-32 x 5/16" SOC HD SS**
- **122053 Lamination Cap**

Plungers: (sold separately)

809826 Plunger 1", w/ 1/4-20 Thread
809827 Plunger 1 1/2", w/ 1/4-20 Thread
809826mm Plunger 1", w/ M10 Metric Thread
809827mm Plunger 1 1/2", w/ M10 Metric Thread

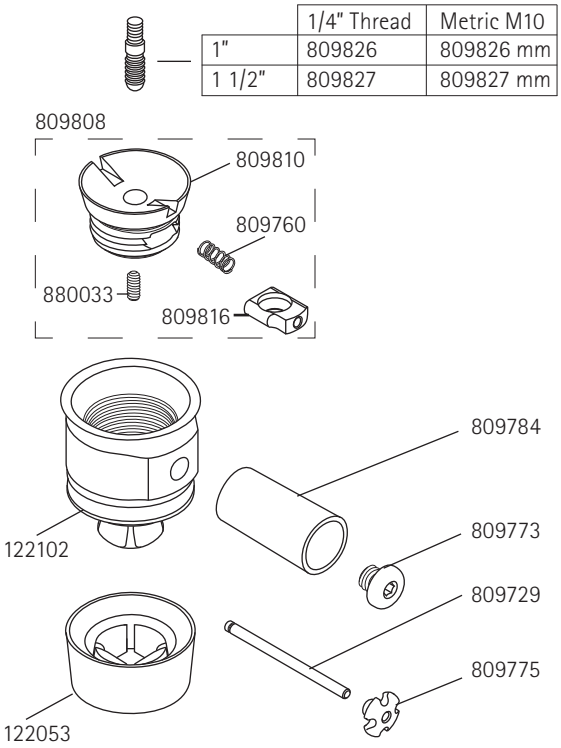
Shuttle Lock Sub Assembly:

809808 Shuttle Lock Sub Assembly
- **809810 Shuttle Body**
- **809816 Shuttle Lock**
- **809760 Compression Spring**
- **880033 6-32 x 5/16" SOC HD SS**

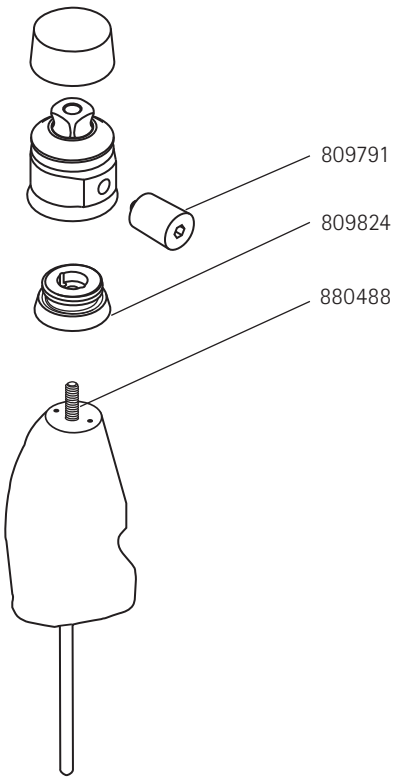
Fabrication Kit - Thermoforming and Lamination:

125420 Fabrication Kit
- **809824 Shuttle Body Dummy**
- **809791 Button Shield Dummy**
- **880488 1/4-20 x 2" SOC HD SS**

Shuttle Lock Assembly and Plungers



Fabrication Kit
125420



Mold Preparation For MightyMite® Shuttle Configurations

Attach Assembly and Blend

The model should be prepared with a 1/4-20 x 2" set screw in the distal end of the plaster mold. Align the set screw with the centerline of the model. The screw should protrude 1" beyond the end of the model for the housing dummy and the hex socket of the set screw should be molded into the plaster.

Screw the housing dummy over the exposed set screw. Blend the distal end of the model to the inner flair of the housing with plaster slurry. Fill the thru hole in the pyramid with silicone gel and apply lamination cap.

Prepare Model

• Foam Model

For foam models, apply a nylon hose and a PVA sleeve, tied off around protruding screw.

• Plaster Model

Vacuum holes may be needed with plaster models, especially near the shuttle housing. If model is wet, use a casting balloon.

Fabricating Shuttle Lock with Titanium Pyramid Housing

Thermoforming

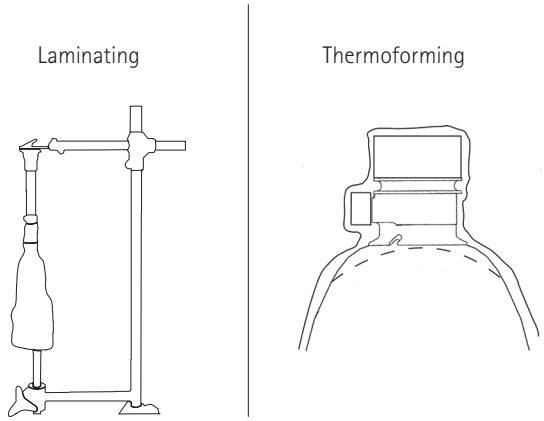
Any customary plastic may be used for a definitive or check socket fitting. Standard drape forming techniques may also be used with sufficient vacuum. Drape formed Durr-Plex is commonly used a clear check socket especially with the Socket Evaluation System.

Special care should be taken around the button shield area to prevent wrinkles when blister forming.

Lamination

Add a wax (990035) coating to the shuttle housing threads before assembling to the shuttle dummy. Screw the button shield dummy into the latch pin hole, then fill the hex wrench hole with silicone gel. The suggested fabric lay-up is the inclusion of 1" carbon fiber tape (211144) tied into the groove of the housing body, extended up several inches, and fanned out over the distal socket section. Based on the size of the patient, add appropriate stockinettes and strengthening fabrics tied into the top tie-in groove.

The selected resin should be prepared and poured into the outer PVA sleeve and thoroughly saturated around the pyramid body. After the resin has hardened, remove the excess resin near pyramid dome.



Daily Care and Maintenance

The Prosthetist should discuss the following inspection procedures and guidelines with the patient.

- Check the locking mechanism for proper operation before each use. Discontinue use of prosthesis and contact your Prosthetist if locking mechanism is not performing as expected.
- Avoid bumping the button to prevent accidental un locking. This risk increases if the prosthesis is fabricated without a button shield.
- Keep the lock clean and free of debris for the best performance and proper lock engagement.
- Avoid humid or wet environments and always dry the components should they get wet. Prolonged exposure to moisture can cause metal components to corrode and fail prematurely.
- Should the lock malfunction in any way (e.g. accidentally disengage, fail to release, etc.), discontinue use of the lock immediately and contact your Prosthetist.
- Contact your Prosthetist should you have any questions or concerns.

Fabrication Guidelines

- A trained technician must perform fabrication of the prosthesis.
- Do not modify the housing or the locking mechanism in any way.
- Use a thread locker to secure all threaded fasteners.
- Use of the button shield and guide screw, when provided, is required for safest operation. Failure to use the button shield significantly increases the likelihood of accidental disengagement of the lock.
- A minimum of 3 teeth must enter the shuttle and clutch locks for safest operation.
- This device is intended for single patient use.

Failure to follow these guidelines will void any warranty.

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