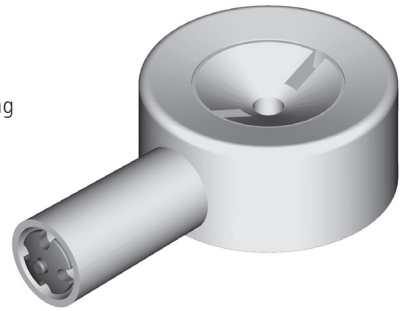
# MightyMite® Shuttle Lock with Cylindrical Housing

MightyMite®
Shuttle Lock with
Cylindrical Housing
w/o Plunger

**FC100204**



## Shuttle Lock Assembly:

| | |
|---|---|
| **FC100204** | **Cylindrical Housing Shuttle Lock w/o Plunger** |
| **122104** | **Cylindrical Housing, Upper** |
| **122105** | **Cylindrical Housing, Lower** |
| **809784** | **Button Shield** |
| **809773** | **Guide Screw** |
| **809729** | **Latch Pin** |
| **809775** | **Latch Pin Button** |
| **809810** | **Shuttle Body** |
| **809816** | **Shuttle Lock** |
| **809760** | **Compression Spring** |
| **880033** | **6-32 x 5/16" SOC HD SS** |
| **880271** | **M5 x .8x18 FHSC** |
| **882510** | **M5 x .8x18 SHCS** |
| **809830** | **2" Diameter Housing Adhesive Seal** |
| **880251** | **#4 x 3/8 SS Sheet Metal Screw** |

## 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:

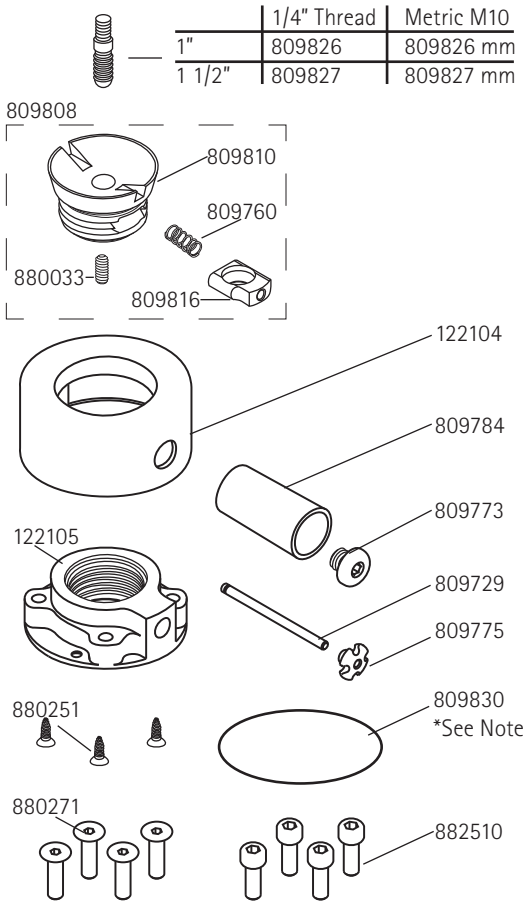
| | |
|---|---|
| **809808** | **Shuttle Lock Sub Assembly** |
| **809810** | **Shuttle Body** |
| **809816** | **Shuttle Lock** |
| **809760** | **Compression Spring** |
| **880033** | **6-32 x 5/16" SOC HD SS** |

## Fabrication Kit - Thermoforming and Lamination:

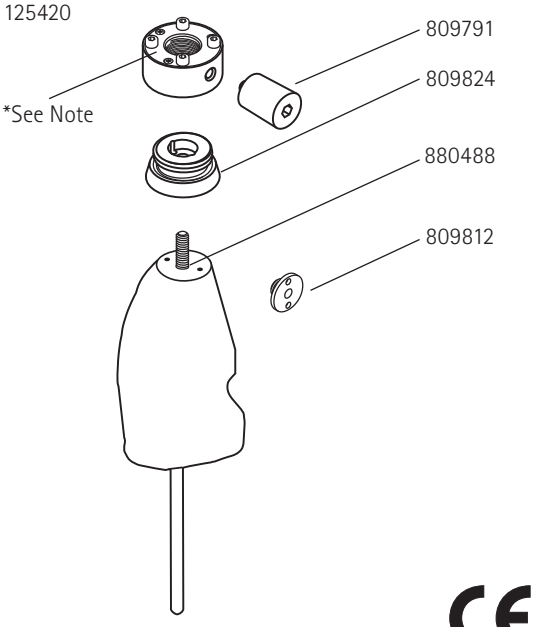
| | |
|---|---|
| **125420** | **Fabrication Kit** |
| **809824** | **Shuttle Body Dummy** |
| **809791** | **Button Shield Dummy** |
| **809812** | **Button Shield Substitute** |
| **880488** | **1/4-20 x 2" SOC HD SS** |

*Apply 2" Adhesive Seal (809830) before fabrication

Shuttle Lock Assembly and Plungers




Fabrication Kit
125420

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# 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 exposed out of 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. Clean the distal end of the 4-hole housing and apply the housing adhesive seal to prevent resin leakage.

## 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 Cylindrical 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 as pa clear check socket especially with the Socket Evaluation System.

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

Thermoforming

## Lamination

When laminating directly over the Cylindrical Housing, the button shield dummy must be screwed in the housing and the hex wrench hole filled with silicone gel. Be sure to clean the distal end of the 4-hole housing and apply the housing adhesive seal to prevent resin leakage. Puncture the adhesive seal to reveal the four-hole pattern and insert the four fabrication cap screws coated with wax (990035). The suggested fabric lay-up is the inclusion of 1" carbon fiber tape (211144) over 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.

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, grind down the excess resin from the distal end to expose and remove the four cap head screws.

Laminating