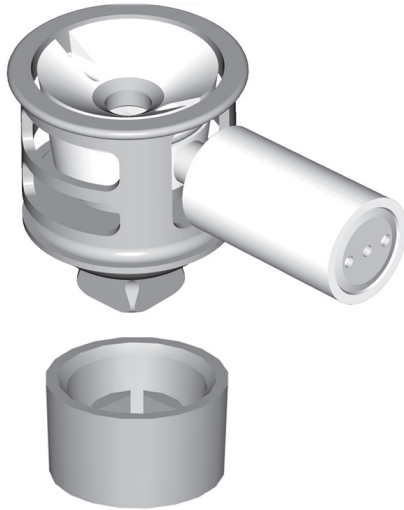


# Original Shuttle Lock with Unitized Housing



125210 Unitized Housing Shuttle Lock, w/o Plunger

- Rated to 220 lbs.

## Unitized Shuttle Lock Assembly:

### 125210 Original Shuttle Lock with Unitized Housing

- 809747 Shuttle Lock Body
- 125345 Button Shield
- 809712 Guide Screw Assembly
- 809731 Latch Pin
- 809730 Latch Pin Button
- 809757 Pe-Lite™ Washers 3/4"
- 809758 Pe-Lite™ Washers 1"
- 809750 Unitized Housing Kit
- 809754 Unitized Housing
- 124183 Lamination Cap

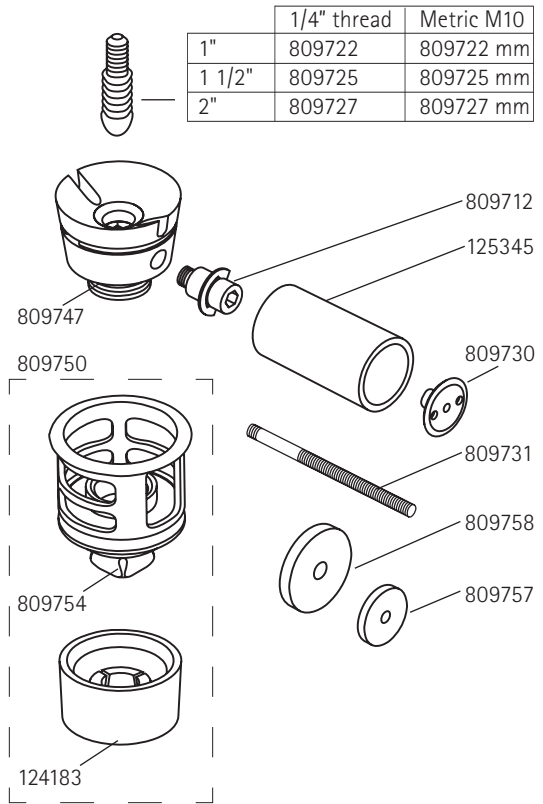
## Plungers: (sold separately)

- 809722 Plunger 1", w/ 1/4x20 Thread
- 809725 Plunger 1 1/2", w/ 1/4x20 Thread
- 809727 Plunger 2", w/ 1/4x20 Thread
- 809722mm Plunger 1", w/ M10 Metric Thread
- 809725mm Plunger 1 1/2", w/ M10 Metric Thread
- 809727mm Plunger 2", w/ M10 Metric Thread

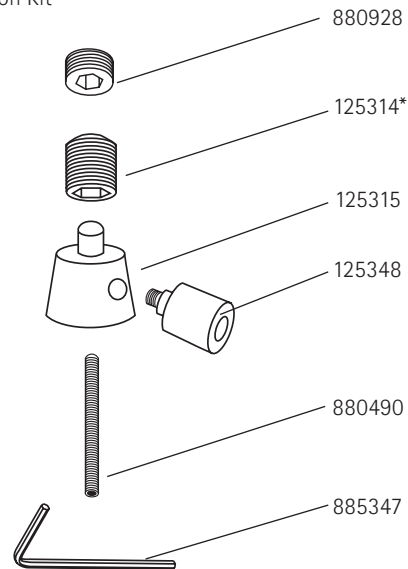
## Fabrication Kit:

- 125239 Fabrication Kit
  - 125314 Threaded Plug, 3/4-16x1"
  - 125315 Distal Socket Plug
  - 125348 Plug Screw F/Shield
  - 880490 Set Screw, 5/16-18x2"
  - 885347 Hex Key, 1/4"
  - 880928 Threaded Plug Screw, 3/4-16x3/8

## Unitized Shuttle Lock Housing and Shuttle Lock Assembly and Plungers



## Fabrication Kit 125239



\* Not needed for Unitized Housing Shuttle Lock

## Fabricating Unitized Shuttle Lock

### Mold Preparation

Seat set screw (#880490) in desired location on mold. Coat the distal surface of the distal socket plug (#125315), the threaded plug (#880928), and the plug screw (#125317) or Plug Screw for Shield (#125348) with stick wax (#990035). Fill the hex cavity in the threaded plug, the lateral hole in the distal socket plug, and the socket of the plug screw with silicone gel. Blend plaster from mold to distal socket plug.

Assemble the unitized on the threaded plug screw (#880928) and place the two on the distal socket plug with the flattened corner of distal end facing the bottom hole of the desired medial position for the release button. Press the mounting nut down firmly on the plug so it is seated squarely.

### One-Stage Lamination

The suggested fabric lay-up is the inclusion of 1" carbon fiber tape (#211144) laced through the windows of the housing body and extending up several inches fanning out over the distal socket section. Based on the size of the patient (maximum 220lbs, K3 level), add appropriate stockinettes and strengthening fabrics tied into the top and bottom grooves above the pyramid.

### One-Stage Lamination Transtibial Socket Layup

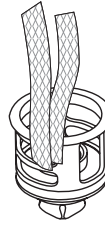
The Transtibial Socket Layup for One-Stage Lamination starts with one PVA Sleeve. Two Nylons are then doubled and tied into the bottom groove of the adaptor (with Polyester resin use 1/2 oz. Dacron material instead of two nylons). Weave three 1" carbon tape strips in and out of the slots in the Unitized Housing. Double and tie two *Ipos Fiberglass Nylon Stockinettes* into the top groove of the Unitized Housing. Then insert one Carbon Webbing layer around the entire socket along with one 2" to 2 1/2" glass strips (crossed over to go into the proximal ear area of the socket) around Brim and at MPT. Pull down Ipos. Next will be one glass circle on each side of proximal ears and one 1/2 Ipos. Double and tie two nylons into top groove of adaptor and reflect back down. Finally double and tie one Double Ortholon into top groove of Unitized Housing and reflect back down.

### Assembly

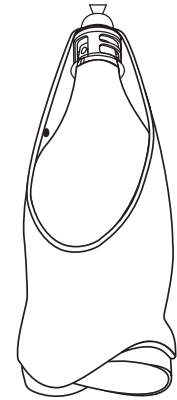
Trim plastic around threaded plug (#880928) even with Distal Socket Plug (#125315). Also trim plastic even with Plug screw (#125317) or Plug screw for Shield (#125348). Carefully remove interface from mold to reassemble shuttle lock.

The Shuttle Lock Body (#809747) is screwed into the Unitized Housing (#809754). The Guide Screw Assembly (#809712) is placed inside the Button Shield (#125345) pushed through a 1" Pelite Washer (#809758) and is screwed into the Shuttle Lock Body. The Latch Pin (#809731) is cut to desired length and the Latch Pin Button (#809730) is screwed on and secured with blue Loctite. The Latch Pin is pushed through the 3/4" Pelite Washer (#809757) and threaded into the shuttle through Screw Assembly. The Pelite washers are required to baffle air escape and prevent noise.

Carbon Tape through Unitized Housing



Shuttle Lock Assembly



## 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 unlocking. 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.**