

3150 Threaded Clutch Lock

Instructions For Use



3150-1

P/N	Desc	Specification
3150TF	Threaded Clutch Lock	100kg / 220lbs
3150S	Threaded Clutch Lock	100kg / 220lbs
3150	Threaded Clutch Lock	100kg / 220lbs
CLP	Pin for Clutch Lock	60mm / 2 3/8"
3150-1	Fabrication Dummy Kit	



3150-TF

3150 / 3150S / 3150TF

Application

The 3150 series Threaded Clutch Lock body with Rotating Base is suitable for moderate and high function level. 3150 series lock is to be exclusively used for the prosthetic fitting of lower extremity amputations up to 100kg / 220lbs.

Product Description

The 3150 / 3150S / 3150TF are intended to be threaded into a corresponding 3 or 4 prong lamination socket adapter. A release button on the ratchet unit can be used to lock and unlock the pin to/from the housing.



Place the conical laminating dummy at the distal end of the model and anchor it with 4 nails. Pull PVA bag or barrier over the model.



Place tape over the distal end of the model.



Heat end of a metal object with a heat source.



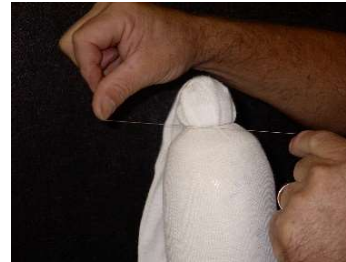
After heating end of metal object, poke a hole through the bag to expose the thread of laminating dummy.



Apply petroleum jelly over entire cap screw.



Apply petroleum jelly over the outer threads of threaded laminating dummy.



Apply layup materials as usual, and tie off initial layers between conical and threaded dummy.

! Be sure to snugly tie off, but avoid separating the dummies!



Appropriately apply reinforcement material over the model. Reinforcement braid and tape is recommended for this application.



Screw corresponding lamination adapter onto the threaded dummy. Be sure to screw the adapter snug to the material between the 4 ear adapter and the socket model so no gapping.

! BE SURE TO APPLY SILICONE PUTTY OR SIMILAR OVER THE CAP SCREW, INTO THE ADAPTER SLOT AND THE EXPOSED THREAD OF THE SCREW!



Apply nyglass or equal over the model, being sure to tie off into the groove on the lamination adapter



Apply Carbon braid or equal over previous layers, being sure to use the groove on the 4 ear laminating adapter to tie off the stockinette



Apply outer PVA bag, draw vacuum, and apply resin inside bag.

⚠ NOTE: Resin choice and reinforcement materials will make a huge difference in strength, stiffness, and weight depending on what is used! (I.E. Carbon with Epoxy resin)



⚠ NOTE: After removing the model from the laminated socket, be sure the slot of the lamination adapter is free of resin. Be sure that the 3150 threaded body goes smoothly into the lamination adapter or there is possibility of galling the lock body, and this is not covered under warranty!

The clinician is responsible for utilizing effective reinforcement material for socket Lamination according to patient needs.

Assembly

Once the lamination is complete, carefully remove any excess resin. Remove the anchor bolt and trim around the Dummy plug. Thoroughly clean the threads in the lamination adapter, the slot, and the pinch bolt hole and threads. Torque to specified manufacturers component recommendations.

⚠ Note: Failure to follow these instructions properly may cause a failure of the interface between the socket and the lock.

- Once the lamination is complete, carefully remove any excess resin. Remove the Anchor Bolt and trim around the Clutch Housing Dummy Plug.
- Thoroughly clean the threads in the lock body and remove any resin which may have gotten into the lock body



⚠ Note : It is recommended that thread-lock adhesive Loctite 242 be used on the push button threads. This will allow the parts to be firmly connected, but should the necessity arise, the parts can be taken apart.

Full cure of resin and Loctite is 24 hours. (please note that factory setting already has Loctite 242 on the threads applied. The instruction below is only applied when you have to clean or maintain the push button assembly in case a correction is needed) Check the function of the completely assembled housing in the locking device.

- Remove the housing from the body of the locking device. Lay out disassembled housing as shown above.
- With gear in housing, install spring from the opposite end of the housing.
- Place a drop of Loctite on the threads of the set screw.
- Screw push button into gear shaft tightly.
- Place ring of Loctite on the threads of the housing and screw in the locking device tightly.
- Locking device is now functional and useable but full cure of adhesive is obtained in 24 hours.

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.
- A minimum of 3 serrations or rings must be engaged in the shuttle and clutch locks for safest operation.
- This device is intended for single patient use.



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.
- Be sure the Prosthetist discusses proper sock maintenance so that any socks that are used are clear of the pin and do not get subsequently pulled into the lock mechanism, as this will cause the lock to malfunction and it may not release allowing for socket removal.
- Avoid bumping the button to prevent accidental unlocking. This risk increases if the prosthesis is fabricated without a button shield.
- Do not hit the release button with any metal object as it can cause damage to the bearing or lock mechanism.
- 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. Failure to follow these guidelines will void any warranty.

Not to be submerged, and not for swimming purposes. Also, avoid contact with bodily fluids – if these fluids enter the lock, be sure to notify your prosthetist to clean out the lock and lock mechanism. Bi-annual inspection should be carried out.

Allowable environmental conditions

Use – relative humidity: 0 % to 90 %, non-condensing

Storage/transportation – relative humidity: 20 % to 90 %, non-condensing

Splash - Fresh water, rain, salt water, urine, dust, sand, particles of foam cosmetics

cleaning required after contact with salt-laden air, salt water, chlorinated water, urine, sand



Unallowable environmental conditions

Storage/transportation: high vibrations, impacts

Cleaning agents containing solvents



CE Conformity

This product meets the requirements Council EU 2017/745 (MDR).

for medical products. This product has been classified as a class I product according to the classification criteria outlined in appendix IX of the guidelines.

Warranty

The product is warranted against defective materials and workmanship for a period of 1 year from the date of installation.

Keep this manual in a safe place for future reference.

Specifications subject to change

3150 IFU REV. K (9-23-26)