3180 MAGLOCK 2.0 / MAGLOCK 2.0 Plus

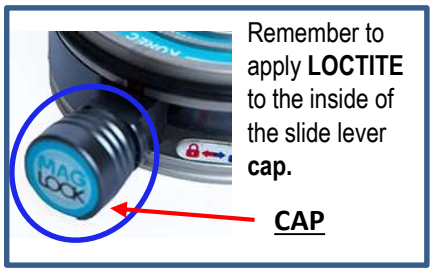
Mechanical Magnetic Suspension System IFU

Description: The Maglock 2.0 is a mechanical magnetic suspension system that works like a shuttle lock pin system for K1 through mid K3 patient. The Maglock magnetically adheres to the steel button built into the Magliner, or can be utilized with the Distal Converter Cap (Part Number DSTC) with a conventional Locking Liner, but will need to utilize the 3180-1M or 3181-1M fabrication dummy which includes the casting rings for both Magliner and Locking Liners.

Application: The Maglock 2.0 mechanical magnetic suspension system is designed for K1 through mid K3 patient (non-high impact / very high activity), up to 300 pounds. This lock is to be exclusively used for the prosthetic fitting of lower extremity amputations, and for single patient fitting use only. Not to be reused on a different patient fitting.

Parts included with Maglock 2.0:
Maglock 2.0 or Maglock 2.0 plus lock
M6 4-hole assembly screws (4)
Flat Steel 4-hole plate

P/N	Description	Weight Limit	Lock Weight	Build Height	Rating
3180M	Maglock 2.0	136kg / 300lbs	278g / 0.6lbs	2.2cm / 0.87in	60lbs
3181MP	Maglock 2.0 Plus	136kg / 300lbs	312g / 0.69lbs	2.7cm / 1.07in	90lbs




Do Not Remove!


Avoid debris from entering!


Check bolt length you use!

Limitations:

Because the Maglock 2.0 requires a minimum close-in gap of 4mm / 5/32 in to adhere to the Magliner or DSTC, and as such, this lock may not be suitable for those patients that have a very bulbous distal end, fluxuating edema, and should not have the distal half of the mold modified as per usual pin lock total contact technique. It is recommended to either utilize a surface shape and volume casting technique versus a high compression casting technique with distal elongation as this can artificially extend the resultant mold/socket and the close-in gap required for contact adherence of the Maglock 2.0 to the steel button. Should the potential for reduced close-in gap be present, it is then recommended to utilize the Click Medical system for a distal window to allow the close-in gap to be achieved at the

⚠ Warning: The following conditions can lead to induced damage to the Maglock 2.0 and void the warranty!

- Maglock should not be used in a dusty environment or in any water environment!
- Do not directly blow air into the slot opening!
- Do not, under any circumstance, remove the screw holding the slide lever onto the rotating body within the Maglock 2.0!
- Be sure to check the 4-hole bolt lengths being used (especially if not the bolts that are included) to ensure that they do not bottom out within the Maglock 2.0, as this can damage the frame! This can also disrupt the ability of the Maglock 2.0 to produce maximum magnetic adherence!
- Magnets are susceptible to corrosive gas exposure (CI2, NH3, SOX, NOX, H.. Etc.) and should be avoided!
- Do not splash electrolyte water onto / into the Maglock 2.0 as this can reduce the magnetic strength!
- Some inorganic solvent exposure can also reduce the magnetic strength and should be avoided!

Lifting Loads:

Amputee weight and activity is governed by the stated limits.

Combined amputee, and carrying load, should not be at, or exceed stated weight limit.

Apply the 4-hole steel plate before the attachment plate and secure with M6x1 screw by applying 10Nm (88 in lb) of torque to each screw.

⚠ Over torquing may result in poor function. Use Loctite, and be sure the attachment screw is long enough to fully

engage the threads in the lock, but not too long that it will bottom out into the Maglock frame which can damage the lock and cause a malfunction. This type of damage is not covered under warranty. While the M6x1x20mm Flat Head Screws included will work with many common 4-hole attachment devices, the required screw length will depend upon the thickness of the socket and the distal attachment connector.
Instruct patient on proper usage and to contact Prosthetist should lock not work.

⚠Fabrication Guidelines (refer to fabrication IFU for details. Also view videos on YouTube at STNGCorporation)

- A trained technician must perform fabrication of the prosthesis.
- Do not modify the housing or the locking mechanism in any way.
- Do not disassemble the housing.
- Use Loctite to secure all threaded fasteners, and the slide lever cap.
- If inner and outer socket surfaces of the distal end are not parallel and smooth, the lock may malfunction.
- Applying more torque than recommended may cause the lock to malfunction.
- Fabrication of a socket should be done using a fabrication dummy. Do not fabricate using the Maglock lock as the dummy!
- Inspect operation of mechanism after installation into the socket, and after prosthesis build.

Maintenance

- Maintenance must be carried out by qualified personnel.
- Bi-Annual inspection to be sure brake function is satisfactory is recommended.
- Check for visual defects that may affect proper function.

The wearer should be advised:

Any changes in performance of this device must be reported to the Clinician / Practitioner.

Changes in performance may include:

- Inability to lock

Cleaning:

- Use a damp cloth and mild soap to clean the outside surfaces
- DO NOT clean slot area with compressed air, as this will introduce contaminants into the mechanism which will void warranty
- DO NOT use aggressive cleaning agents.
- DO NOT use any petroleum lubrication on slide or release button, as this will void the warranty

Limitations on use

Intended Life:

- Service life of the product is covered by the warranty period (1 year)
- This product is recommended for use with other ST&G Products.

Lifting Loads:

Amputee weight and activity is governed by the stated limits.
Combined amputee, and carrying load, should not be at, or exceed stated weight limit.
Socket should be fabricated and designed accordingly to patient activity level, weight, and given socket design per the prosthetist and technician discretion.

Environment:

Avoid abrasive environments such as those containing sand for example as these may promote premature wear. Avoid contact with talcum powder.
Operating and Storage Temperature Range: between temperatures of -10˚C to 50˚C [14˚F and 122˚F]
Do not submerge or use in wet environment.
Avoid dusty environments.

Liability

The manufacturer recommends using the device only under the specified conditions and for the intended purposes. The device must be maintained according to the instructions for use supplied with the device.

CE Conformity

This product meets the requirements Council EU 2017/745 (EU) 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. Please keep this manual in safe place for future use.

3180M / 3181MP IFU REV. C (10-30-23)

MD Medical Device

CE EC REP

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