

O and P de México

Technical Manual – Prosthetic Knee 3A40

General Description and Purpose

The 3A40 is a monocentric modular prosthetic knee joint with manual lock, based on the Ottobock 3R40. It provides stance stability in extension with manual locking and controlled flexion when released.

Suggested L-Code: L5611 – Knee-shin system, single axis, constant friction, includes soft cover.

Technical Specifications

Parameter	Value (3R40 ref.)	Notes for 3A40
Weight	290 g	Confirm alloy
Max. Flexion Angle	155°	Verify actual
System Height	23 mm	Confirm dimension
Max. User Weight	100 kg (220 lbs)	Adapt if different
Proximal Connection	Pyramid adapter	Same unless modified
Distal Connection	Tube clamp (30 mm)	Confirm tube diameter
Distal Build Height	55 mm	Verify
Proximal Build Height	19 mm	Verify

Main Components

Upper joint section, lower joint section, plastic cap, joint axes, lock axis, stop screw, lock latch, switch axis, rivets, compression springs, fixation screws, release cable, clamps, washers.

Indications and Patient Selection

- Designed for transfemoral amputees requiring manual lock knee.
- Suitable for limited ambulators (K1 level).
- Provides maximum stance stability indoors.
- Not for highly active patients.

Environmental Conditions

- Operating temperature: –10 °C to +45 °C
- Storage/transport: –20 °C to +60 °C
- Relative humidity: 20–90% (non-condensing)
- Avoid dust, sand, saltwater, acids, solvents.

Safety and Warnings

- Do not place hands or objects inside the mechanism.
- Ensure correct alignment before use.
- Inspect after accidents or overload.
- Unauthorized modifications void warranty.

Assembly and Delivery

Delivered pre-assembled. Lock tested and adjusted. Steps:

1. Insert distal tube fully into clamp.
2. Deburr and clean tube ends.
3. Tighten screws with recommended torque (~13 Nm).
4. Check alignment.
5. Perform static and dynamic tests.

Adjustments

Stop screw controls play:

- Right turn → more play
- Left turn → less play

Release cable routed along socket, ensure smooth pull.

Maintenance and Inspection

- Annual inspection recommended.
- Inspect wear, noise, excessive play.
- Replace worn parts as needed.
- Inspect after accidents.

Disposal and Re-use

Dispose according to medical regulations. Do not re-use with another patient.

Legal and Warranty

The 3A40 should include Declaration of Conformity per local medical device standards. Warranty applies only when used as specified. Misuse or modification is excluded.