

S-II Plus Chair



Operating / Service
Manual

IMPORTANT: Read all instructions before assembling or using this device.

api
anthony products, inc.

ENT Examination / Treatment Chair

For decades, JEDMED Instrument Company has built its reputation on principles of quality, integrity, innovation and value. Continuous research and development coupled with exceptional customer service and a world-class quality system has placed JEDMED as an industry leader.

As always, our focus remains on you, our valued customer. Building rewarding and lasting relationships is the cornerstone of JEDMED's business philosophy. JEDMED is committed to delivering reliable and cost-effective solutions to medical professionals everywhere.

The employee-owners of JEDMED would like to take this opportunity to thank you for all your support. We are pleased and proud to serve the ever-changing medical community.

Sincerely,

JEDMED

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Note: Specifications subject to change without notice.

PRECAUTIONS

The following conventions are used throughout this manual:

**WARNING**

Alerts user to the possibility of
PERSONAL INJURY.



Read Instruction
Manual



Application part
is type B

**CAUTION**

Alerts user to the possibility of
DAMAGE to the EQUIPMENT



General hazard
condition

**NOTE**

Alerts user to **PERTINENT
FACTS or CONDITIONS**



Do not discard in normal trash.
Special collection of electrical and
electronic waste

**CAUTION**

Federal (USA) law restricts this device to sale by
or on the order of a physician.

**NOTE**

This manual covers operation of this chair
and is not a substitute for working-knowledge
of the physician.

Safety Precautions (General)

- Use **Extreme Caution** when chair is running automatic mode.
(Pressing any button will cancel automatic operation)
- **Chair must be connected to a ground electrical supply.**
Otherwise there is a risk of electric shock.
- **Explosion Hazard – Do NOT use in the presence of flammable anesthetics.**
- **Before moving chair on roller base, ALWAYS ensure there is no patient in chair and chair is returned to fully upright and lowest height position.**
- **Use extreme care if moving chair on an inclined surface.**
- ALWAYS read entire instruction manual before assembling or using this device.
- Allow operation only by qualified personnel.
- Do not leave device(s) operating while unattended.
- **Always use “Universal Precautions” when handling potentially infectious material.**
- **Always clean and disinfect chairs and accessories before initial use and between each patient.**
- Do not use this device if defective or not operating properly.
- Disconnect from power before cleaning, servicing, or storing.
- All cleaning, disinfecting, maintenance, and service should only be performed by authorized and appropriately-trained technicians.
- Do not allow liquid to enter any part of this device.

**Additional Precautions and Warnings are found on
page 14 and throughout this manual.**

DESCRIPTION & INDICATIONS FOR USE

JEDMED's S-II Plus Chair offers flexibility and performance and was designed specifically with the otolaryngic specialist in mind. For routine examination and minor treatment in the office, these chairs are unsurpassed for integrating features, cost, and quality.

The timeless look and feel of these chairs will enhance the appearance of any exam room. Versatile color choices are available making them easy to coordinate with most any décor.

JEDMED's S-II Plus Chair offers power recline of the backrest and footrest together, which lays the chair out into a table. The chair has a powered electric lift base which contains an integrated rotation lock. In addition, the home button returns the chair to its starting position.

The chair includes synchronized armrests which lay out flat as backrest is reclined. When entering or exiting the chairs, these armrests can be conveniently rotated up and out of the way.

Optional examination lights are available, as well as a pediatric booster seat, foot control, and various headrests.

JEDMED's S-II Plus Chairs are quality-designed and manufactured medical devices. Given reasonable care, these products will provide many years of trouble-free service.

Intended Use

- Treatment chair for examinations and treatment in a sitting and lying position
- Clinical areas and doctors' practices
- Appropriate and comfortable support of the patient during treatment and examination. Assisting the work of the person carrying out the treatment with regard to ergonomics and quality.
- Intended users: Exclusively trained and instructed personnel of the department concerned, i.e. doctor, assistant, etc.

Non-Intended Use

- In the vicinity of high-frequency surgical units or defibrillators
- In an environment where the occurrence of inflammable or explosive gases or vapors (e.g. anesthetics) is to be expected
- Surgical chair
- Alternative to a bed

CONTENTS

Carefully unpack all components. Verify contents and inspect for shipping damage.

➤ NOTE

Any shipping damage should be documented and reported immediately to the carrier or JEDMED.

Item Number	Description
04-1545-P	S-II Plus Chair, 115V
04-1547-P	S-II Plus Chair, 230V
04-1545-PM	S-II Plus Chair, 115V with Roller (mobile) Base
04-1547-PM	S-II Plus Chair, 230V with Roller (mobile) Base

Item Number	Options Description
04-1596	Headrest, Fully-Articulating
04-1590	Light Kit, 115V
04-1591	Light Kit, 230V
04-1597-P	Foot Control
04-1740	Pediatric Booster

Replacement Parts	
Item Number	Description
99-4160	Replacement Bulb for Light Kit

Refer to next page for illustrations

OPTIONS

Examination Light Kit



Examination Light Kit



Light Installed

Headrests



Standard Headrest



Fully-Articulating Headrest

Pediatric Booster Seat



Foot Control



UNPACKING**Shipped in Carton**

1. Remove any bands and screws securing carton to skid.
2. Slowly remove carton.
3. Carefully cut stretch-wrap away from chair. Use extreme care not to damage the chair upholstery or finish. Preferably, use scissors in lieu of razor knife.
4. Unbolt chair from skid.
5. Remove chair from skid.

Shipped Via Moving Company

1. Typically, chair is shipped blanket wrapped and set up by the shipping crew.

⚠ CAUTION

Use care not to cut upholstery or scratch chair with sharp tools.

➤ NOTE

Any shipping damage should be documented and reported immediately to the carrier or JEDMED.

The S-II Plus Chair may only be shipped in an upright position and carefully secured.

ASSEMBLY INSTRUCTIONS**Assembly:**

Typically, all chairs arrive fully assembled.

No on-site assembly is required other than mounting base to the floor for additional security, as desired.

**WARNING**

For maximum protection, securely fasten lift base to floor to prevent accidental tipping.

Install Options:

Options are normally supplied fully assembled and installed at the factory.

If options are ordered after initial purchase, follow instructions received with each option.

IDENTIFICATION / OPERATION

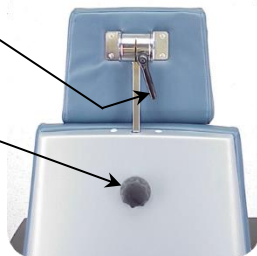
Main Parts

**WARNING**

Do not sit or lean on leg rest or backrest.
Chair may tip if incorrectly or excessively loaded!
Safe load limit of 440 lbs (200 kg) - Must be evenly distributed over chair!

Headrest Tilt
Adjustment Lever

Headrest Height
Adjustment Handwheel



Roller Base Engaging Lever
(if equipped)

IDENTIFICATION / OPERATION**Headrest Height Adjustment**

- Securely hold headrest in position with one hand.
- Unlock position by rotating headrest height adjustment handwheel counter-clockwise.
- Raise or lower headrest to new desired position.
- Lock position by rotating handwheel firmly clockwise.

Headrest Tilt Adjustment

- Securely hold headrest in position with one hand.
- Loosen by rotating headrest tilt adjustment lever counter-clockwise.
- Tilt headrest to desired position.
- Lock position by rotating lever firmly clockwise.

❖ CAUTION

Do not tighten handwheel if headrest is completely removed from chair. Damage to lock mechanism may result.

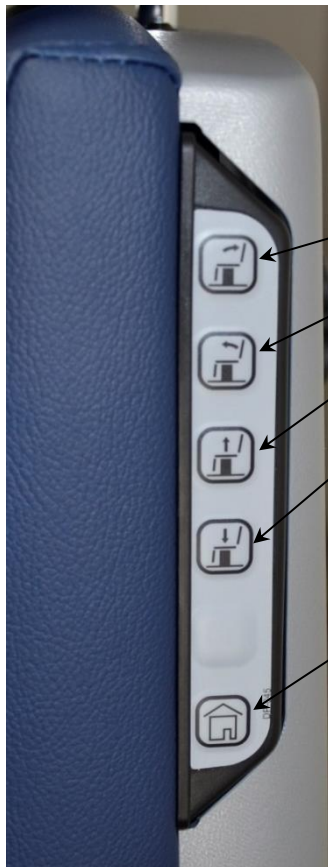
Armrests

- Armrests are designed to lower automatically as chair is reclined.
- Armrests may be rotated out of the way for ease of patient entry, by simply raising upward.



IDENTIFICATION / OPERATION

ELECTRONIC CONTROLS



Button 1: Recline (backrest / footrest)

Button 2: Incline (backrest / footrest)

Button 3: Raise Seat

Button 4: Lower Seat

Button 5: Return to Home Position **Automatically**
(fully down and upright)

**Warning**

Pressing the home button **causes chair to operate automatically!** (Returning to fully down and upright position)

Pressing any button will cancel automatic operation.

Resetting the Electronics

Occasionally, the electronics in the chair may need to be reset. This may be indicated by a beeping sound or the chair being unresponsive to input controls. Excessively long button (or footswitch) presses, electrical noise or poor internal connections can all contribute to an error condition requiring a reset. Other factors may also contribute.

- To reset chair, hold buttons 1 and 2 (or 3 and 4) simultaneously for 10 seconds. A “beep” will sound when both buttons are pressed simultaneously. Continue holding both buttons until beeping becomes silent. Note: Reset may be performed with the chair in any arbitrary height or layout position. Chair does NOT need to be fully down and upright.
- If beeping continues after resetting chair several times, contact JEDMED

IDENTIFICATION / OPERATION**ROTATION LOCK**

The S-II Plus Chair can rotate a maximum of 350°. Internal stops limit excess rotation and prevent damage to electrical connections.

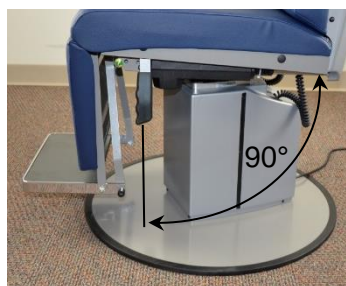
The rotation lock prevents the chair frame from rotating on base. Engagement levers are located on either side of the chair, under the seat.

LOCKED ROTATION

Chair rotation is locked when rotation lock handle is at a 45° angle with the seat, as shown.

**UNLOCKED ROTATION**

Chair rotation is unlocked when rotation lock handle is at a 90° angle with the seat, as shown.

**Roller Base (if equipped)****1**

Casters Retracted
(No roll)

2

Casters Lowered
(Rolling allowed)




















3

Roll with NO PATIENT in chair.
Chair in fully lowest,
upright position.

4

Retract Casters
before use (No roll)

LIST OF WARNINGS (Additional) – Also, General Precautions (page 4)

-  **WARNING** ALWAYS use Extreme Care when chair is running in Automatic Mode!
Pressing any button will cancel automatic operation.
-  **WARNING** NEVER sit or lean on leg rest or backrest.
Chair may tip if excessively or incorrectly loaded. Load must be evenly distributed over chair (440 lb, 200 kg load limit)
This must be expressly pointed out to the patients and care personnel.
-  **WARNING** **For maximum safety against tipping of chair, securely fasten chair base to floor.**
-  **WARNING** **Explosion Hazard – Do NOT use in the presence of flammable anesthetics.**
-  **WARNING** ALWAYS return chair to lowest, upright position before allowing patients to enter or exit chair (or when moving chair on roller base).
-  **WARNING** ALWAYS lock chair rotation before allowing patients to enter or exit chair.
-  **WARNING** DO NOT move chair on roller base with patient aboard.
-  **WARNING** DO NOT use footrest as a step when entering or exiting chair. Footrest is only intended to support patient's feet while seated in chair.
-  **WARNING** Ensure patient's hands are on armrests when adjusting chair.
-  **WARNING** NEVER allow persons who are in need of assistance (older people, people with injuries, disabilities, etc.) to sit in the chair without supervision.
-  **WARNING** ALWAYS clean and disinfect chair before first use and between each patient.
-  **WARNING** ALWAYS fully tighten all levers, handwheels and clamping devices on chair or accessories before use.
-  **WARNING** Power cord must be checked regularly for signs of wear or abuse. Any damaged power cord must be replaced immediately by a qualified technician.
-  **WARNING** This device uses motors and drives which could affect very sensitive measuring equipment used nearby. ALWAYS unplug chair from power source before attempting to gather sensitive data or measurements.
-  **WARNING** ALWAYS use equipotential bonding (protective earth) if other electrical medical equipment is used with this chair. This is a preventive measure to protect patient, user and third parties against micro-shocks from leakage currents. Leakage currents (contact voltages) may occur when dissimilar pieces of equipment are connected together.
-  **WARNING** Linear motors and lift column are subject to wear and should be inspected regularly. Any worn or defective load-bearing components must be replaced immediately to avoid serious injuries to patient and / or user.
-  **WARNING** Regularly inspect mains supply cable for signs of abuse or wear. If found, decommission chair until situation is rectified.
-  **WARNING** To avoid a shock hazard, chair MUST be connected to a properly earthed electrical supply.
-  **WARNING** Perform functional checks at place of use, along with regular mechanical and electrical inspections (see Maintenance).

CLEANING AND DISINFECTING**WARNING**

Always unplug unit from main power outlet before cleaning, disinfecting, maintenance, or service.

Chairs should be cleaned and disinfected before initial use and between each patient.

Cleaning

Chair frame, upholstery and base may be wiped clean using a soft cloth moistened with water and a mild detergent. Do not use excessive amounts of liquids or allow liquids to enter the upholstery, lift base, or any electrical connections. Check that system is thoroughly dry before reconnecting power.

Make sure to place chair in home position (fully upright and lowest seat height) before applying any cleaners. This prevents cleaning solution from removing lubricating grease from linear actuator drive rods. Linear actuators are responsible for lifting the chair and reclining the backrest and must remain lubricated.

Do not use solvents, chlorides, abrasives, chemical cleaning agents or wax polishes. In addition, avoid using any cleaning agents which contain oil or alcohol. Acceptable pH range is 6 – 8.

Do not use any harsh chemicals on the upholstery or plastic parts. Test any new cleaner on an inconspicuous area of the upholstery, to check for adverse results.

**WARNING**

Always observe "Universal Precautions" when handling and disposing of cleaning and disinfecting supplies used on patient contact areas.

Disinfecting

Patient contact areas should be wiped down with a cold disinfecting solution and a disposable cloth. Do not allow solution to remain on product any longer than is necessary to ensure sufficient disinfecting. Test any new disinfectants on an inconspicuous surface to check for adverse results. Follow disinfectant manufacturer's instructions for use. Observe Universal Precautions (see above).

SPECIFICATIONS

Mechanical Data

	English	Metric
Seat Width	20 in	513 mm
Seat Depth	18 in	452 mm
Overall Height (without headrest)	44 in	1124 mm
Overall Width (without accessories)	28 in	704 mm
Overall Depth (in lying position)	67 in	1710 mm
Chair Weight	215 lbs	97.52 kg
Safe Load Limit (evenly distributed over chair)	440 lbs	200 kg
Rotation Range (chair top)	350°	350°

Control Unit Data

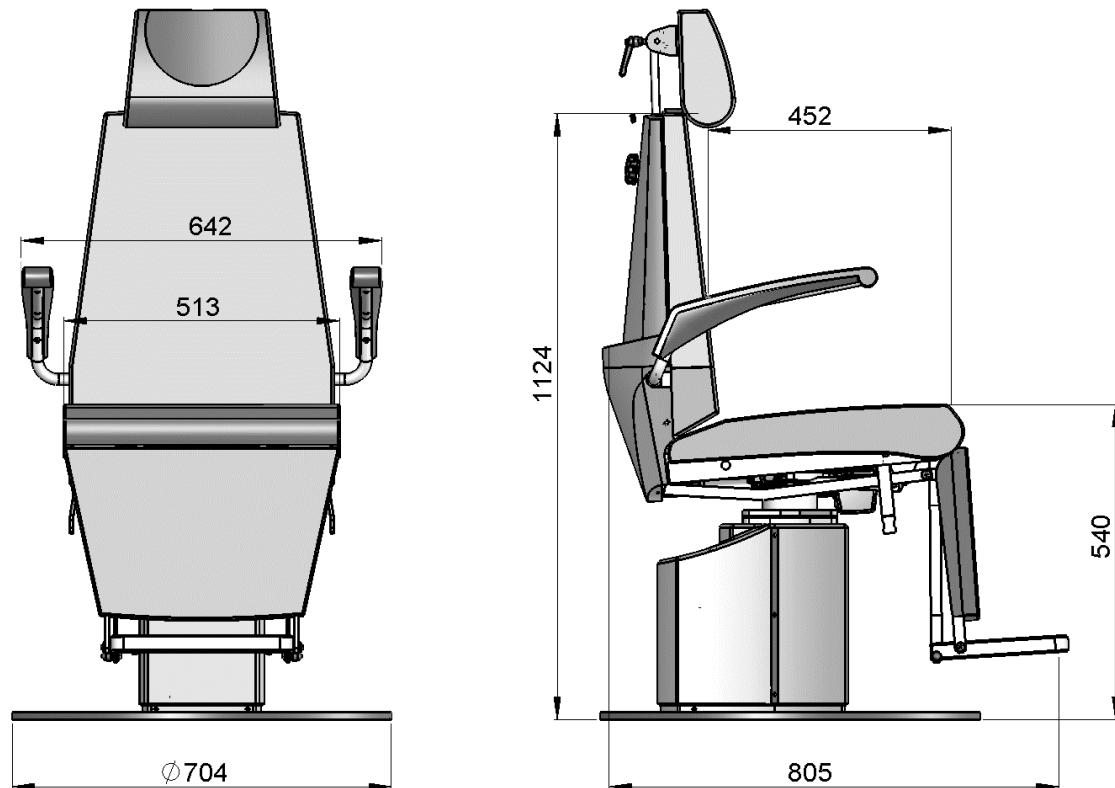
Mains Connection	120Vac, 60 Hz (country-specific) (other inputs are available)
Earthing Protection	Class I (protectively earthed)
Applied Part	Type B
Input Current (normal operation)	4 amps (maximum)
Duty cycle (intermittent)	2 minutes on / 18 minutes off
Degree of protection	IPX6

Motor Data (linear actuators)

Rated Voltage	24V DC
Current Consumption at Rate Load	Max 3.9A
Thrust	900 lbs-force 4000N
Degree of Protection	IPX4

Conditions for storage and transportation

Temperature	50°F to 122°F	10°C to 50°C
Humidity	20% to 90% at 86°F	30°C
Air Pressure	10.2 – 15.4 psi	700 to 1,060 hPa

DIMENSIONS

Note: Dimensions shown in mm

MAINTENANCE

All maintenance and inspections should be performed by appropriately-trained personnel.

Scheduled Maintenance

The S-II Plus Chair should be cycled fully up and down 8-10 times every 60 days. Even if a chair is used regularly, often the working height is within a limited range. Cycling the chair through its entire range will insure proper lubrication of the hydraulic piston and seals, thus maximizing the life of the base.

Moving the Chair

- **Never move chair on roller base with a patient aboard.**
- Never lift or move the S-II Plus Chair without first locking base rotation and returning chair to lowest height and fully upright position, otherwise damage to chair may occur.

Inspect Mechanical Components

Check that all screws, hand wheels, clamp levers, casters, etc. are functioning properly. Missing items must be replaced and loose screws must be tightened. Check that all connecting axles are in place and are secured with a retaining ring on each end. Treat all moving linkages, bearings, and motor piston rods with suitable lubricant (e.g. silicone spray). Recommended frequency is every six (6) months or as needed.

Important! The installed linear motors and lifting columns are subject to wear. Therefore regularly check these items for cracks or damage at the casing. Check the lifting rod for breaks and cracks. Examine the motors and columns separately for special noises or heating during operation. As soon as the linear motors or lifting column appear worn they should be replaced by qualified personnel. A sudden breakdown of a linear motor or lifting column may cause serious injuries to the user and / or patient.

MAINTENANCE**WARNING**

Grounding continuity should be checked periodically to insure patient and user safety.

Testing Electrical Safety

Electrical safety must be checked, as needed, periodically, to assure continued safety. JEDMED recommends checking at least once every six (6) months or as needed.

Visual Inspection

Remove plastic covers on the base unit and the back section. Check all cables for damage. If a cable is defective, replace before the inspection is continued. Check all electrical components (i. e. controller, linear motor, manual switch, etc.) for any damage.

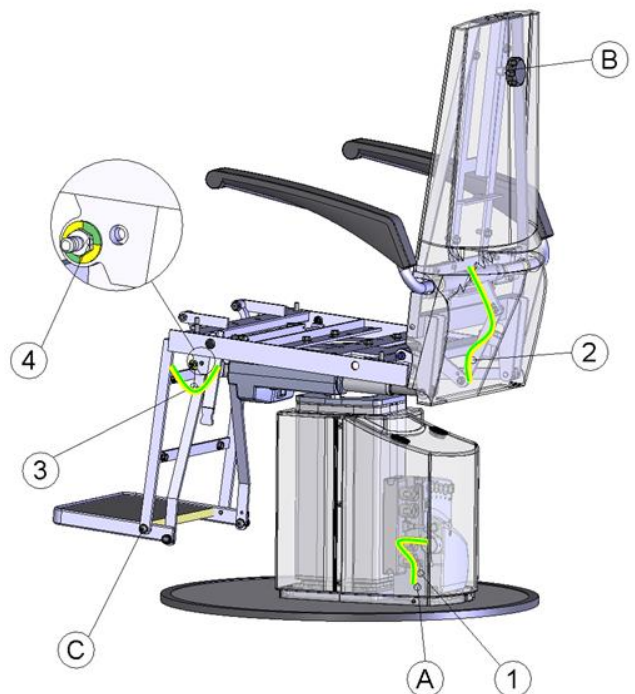
Ground Continuity

Measuring point (A) is the screw to which the ground wire of the AC (mains) cable is attached. Remove the handwheel at the back of the chair to reach measuring point (B), the threaded insert for the handwheel – contact the threads with the test probe. The screw (C) on the footrest is the third measuring point.

For the measurement of the protective conductor resistance, it is important that the grounding cables (1), (2), and (3) are undamaged and connected to a solid protective earth (ground). Also, verify the equipotential (protective earth) bonding bolt (4) is making electrical contact with the protective earth conductor in the AC plug. After completing and documenting the safety checks, recheck all chair functions.

❖ Caution

Safety checks and/or work on the electrical system must only be carried out by an authorized technician.



Blank

**SERVICE
INFORMATION**

**WARNING**

Always unplug unit from main power outlet before cleaning, disinfecting, maintenance, or service.

Service should only be performed by a qualified technician.
Contact JEDMED for further information.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Chair base or backrest will not lift at all.	<p>Chair base is not plugged into a powered outlet.</p> <p>Electronics have experienced an error condition.</p> <p>Lift motor / electronic failure.</p>	<p>Test power outlet with another device to assure power is available.</p> <p>Electronic control unit must be reset. (see page 12)</p> <p>Contact JEDMED</p>
Chair makes a “beeping” sound, continuously.	Electronics have experienced an error condition.	Electronic control unit must be reset. (see page 12)
Chair is difficult to rotate.	Rotation lock is ON.	Release rotation lock.
Brake will not lock chair rotation.	Rotation lock mechanism misadjusted.	Re-adjust rotation lock mechanism. Contact JEDMED for assistance
Chair Lift piston is noisy / squeals.	<p>Lift piston requires lubrication.</p> <p>Rotation lock mechanism is too tight. (squeal)</p> <p>Entire rotation lock mechanism is loose. (chatter)</p> <p>Base shroud (plastic cover) is touching lift piston.</p>	<p>Lightly lubricate lift piston with hydraulic oil or grease.</p> <p>Adjust rotation lock mechanism (contact JEDMED for assistance).</p> <p>Tighten entire rotation lock mechanism (contact JEDMED).</p> <p>Re-position base shroud.</p>

ASSEMBLY DRAWING

Contact JEDMED

Notes



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