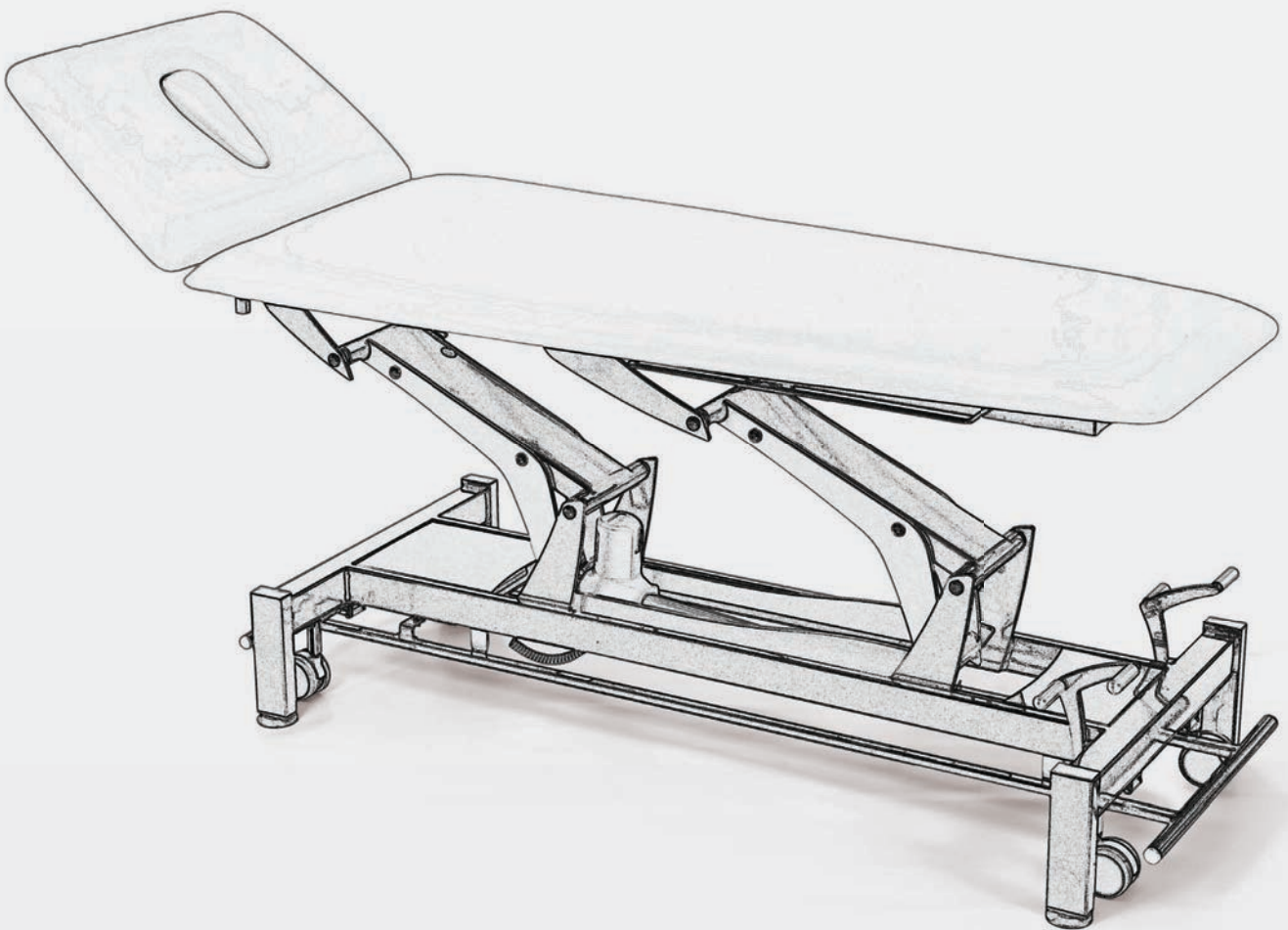




Montane Tables

Service Manual



ISO 13485 Certified

MONTANE TABLE LINE

Moving Rehabilitation Forward™



Service Manual

2 SECTION TABLES

- 3520 Tatra 2 Section 120V (2 wheels/2 legs)
- 3521 Tatra 2 Section 120V (4 wheels)
- 3522 Tatra 2 Section 230V (2 wheels/2 legs)
- 3523 Tatra 2 Section 230V (4 wheels)

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- 3530 Atlas 3 Section 120V (2 wheels/2 legs)
- 3531 Atlas 3 Section 120V (4 wheels)
- 3532 Atlas 3 Section 120V (Postural Drainage—2 wheels/2 legs)
- 3533 Atlas 3 Section 120V (Postural Drainage—4 wheels)
- 3535 Atlas 3 Section 230V (2 wheels/2 legs)
- 3536 Atlas 3 Section 230V (4 wheels)
- 3537 Atlas 3 Section 230V (Postural Drainage—2 wheels/2 legs)
- 3538 Atlas 3 Section 230V (Postural Drainage—4 wheels)

5 SECTION TABLES

- 3550 Alps 5 Section 120V (2 wheels/2 legs)
- 3551 Alps 5 Section 120V (4 wheels)
- 3552 Alps 5 Section 120V (Postural Drainage—2 wheels/2 legs)
- 3553 Alps 5 Section 120V (Postural Drainage—4 wheels)
- 3555 Alps 5 Section 230V (2 wheels/2 legs)
- 3556 Alps 5 Section 230V (4 wheels)
- 3557 Alps 5 Section 230V (Postural Drainage—2 wheels/2 legs)
- 3558 Alps 5 Section 230V (Postural Drainage—4 wheels)

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- 3570 Andes 7 Section 120V (2 wheels/2 legs)
- 3571 Andes 7 Section 120V (4 wheels)
- 3572 Andes 7 Section 120V (Postural Drainage—2 wheels/2 legs)
- 3573 Andes 7 Section 120V (Postural Drainage—4 wheels)
- 3575 Andes 7 Section 230V (2 wheels/2 legs)
- 3576 Andes 7 Section 230V (4 wheels)
- 3577 Andes 7 Section 230V (Postural Drainage—2 wheels/2 legs)
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This manual has been written for the certified field technicians repairing the Montane table line. The information contained in this manual is intended for use by trained and certified DJO, LLC technicians. The Service manual contains safety precautions, nomenclature, specifications, troubleshooting, removal and replacement instructions, general maintenance, parts lists, schematics, warranty and other information which would assist a certified service technician to repair the unit. Read, understand and follow all safety precautions and information contained in this manual.

The specifications put forth in this manual were in effect at the time of the publication. However, owing to DJO, LLC's policy of continuous improvement, changes to these specifications may be made at any time without obligation on the part of DJO, LLC.

DJO, LLC requires that all field technicians stay informed and trained on all changes pertaining to the Montane table line.

Technicians repairing the Montane table line agree to assume all risk and liability associated with this process.

Product Description

The Montane Tables were designed specifically for the purpose of aiding in the administration of manual therapy techniques and physiotherapy. Enhanced with a boomerang mechanism base, Montane Tables provide a smooth, vertical lift while maintaining a stable surface for the patient.

	Head Section Articulates Up	Head Section Articulates Down	Optional Postural Drainage	Foot Section Articulates Up
Tatras 2 Section	40	70	NA	NA
Atlas 3 Section	40	70	30	85
Alps 5 Section	40	70	30	85
Andes 7 Section	40	70	30	85
Dolomites 2 Section Examination	85	20	NA	NA
Taurus 1 Bobath	NA	NA	NA	NA
Taurus 2 Bobath	75	NA	NA	NA

Comfortable seated patient positioning can be achieved with the use of the articulating table sections.

This equipment is to be used only under the prescription and supervision of a licensed practitioner.

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PRECAUTIONS

PRECAUTIONARY INSTRUCTIONS

The precautionary instructions found in this section and throughout this manual are indicated by specific symbols. Understand these symbols and their definitions before operating this equipment. The definitions of these symbols are as follows:



CAUTION

Text with a "CAUTION" indicator will explain possible safety infractions that could have the potential to cause minor to moderate injury or damage to equipment.



WARNING

Text with a "WARNING" indicator will explain possible safety infractions that will potentially cause serious injury and equipment damage.



DANGER

Text with a "DANGER" indicator will explain possible safety infractions that are imminently hazardous situations that would result in death or serious injury.



BIOHAZARD

Text with a "BIOHAZARD" indicator will explain possible safety infractions that could cause bio-hazardous conditions if the table is not properly cleaned after each use.

NOTE

Throughout this manual "NOTE" may be found. These notes are helpful information to aid in the particular area or function being described.

CAUTION

- Read, understand, and practice the precautionary and operating instructions found in this manual. Know the limitations and hazards associated with your treatment table. Observe any and all precautionary and operational decals placed on the unit.
- DO NOT operate this table in an environment where other devices are being used that intentionally radiate electromagnetic energy in an unshielded manner. Portable and mobile RF communications equipment can affect Medical Electrical Equipment.
- This table generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation. Harmful interference to other devices can be determined by turning this table on and off. Try to correct the interference using one or more of the following: reorient or relocate the receiving device, increase the separation between the equipment, connect the table to an outlet on a different circuit from that which the other device(s) are connected, and consult the DJO, LLC Service Department for help.
- Keep table out of high moisture environments.
- This table should be operated, transported, and stored in temperatures between -10° C to + 45° C, with max humidity of 75% (no precipitation).
- Do not exceed table weight capacity of 150 kg (330 lbs).
- Support the table section(s) when making any adjustments.

CAUTION

- Do not transport the table over rough or outdoor surfaces. The retractable caster system could become damaged and inoperable.
- Inspect cables, connectors and casters before each use.
- A licensed practitioner must be familiar with all instructions contained in this manual before administering therapy.

WARNING

- **CAUTION:** Federal law restricts this table to sale by, or on the order of, a licensed practitioner.
- The Montane Table Range should not be used adjacent to or stacked with other equipment, and if adjacent or stacked use is necessary, the table should be observed to verify normal operation in the configuration in which it will be used.
- Do not leave the table unlocked and unattended at any time.
- Disconnect the table from the power source before attempting any maintenance, installation, removal or replacement procedures to prevent electrical shock and possible damage to the table.
- Do not sit or allow patients to sit on the head or wing sections of the table.

WARNING

- Never place your hands and feet near the working mechanism of the table when making any and all adjustments to height or table sections. Moving parts could cause pinch points.
- Use only accessories that are specially designed for the Montane Table Line. Do not use accessories manufactured by other companies on the Montane Table Line. DJO is not responsible for any consequence resulting from using products manufactured by other companies. The use of other accessories or cables may result in increased emissions or decreased immunity of the Montane Table.
- When making adjustments to the table sections, make certain the patient weight is supported before adjusting.
- Never transport a patient on the Montane Table. These tables are not designed to support a patient during transport.
- This device should be kept out of the reach of children.
- Do not smoke on or around the table.
- Do not allow any unsupervised patient access to the table.
- The casters should be locked before the loading or unloading of a patient. Do not reposition or allow the patient to get on or off the table while the casters are unlocked.
- This table should only be operated under the prescription and supervision of a licensed medical practitioner that is familiar with the precautionary measures and operational functions associated with the table being used.

WARNING

- On rare occasions, use of the table can result in transient skin reactions such as rash, inflammation or irritation. These skin reactions may be the result of individual sensitivity to the mild antibacterial cleaning materials used on the table or the material of the table cushions. Advise the patient of this possibility before starting treatment. If a visible skin reaction does occur, discontinue patient treatment and consult the prescribing physician.
- Should the Montane Table Mains Power Cord become frayed/damaged or if a caster is broken, immediately stop use of the table and contact the Dealer or DJO for service.

DANGER



- Do not allow any person, object, or device to be under the table while the table is in operation.
- Always clean the table after each use with a soft cloth dampened with water and a mild antibacterial detergent. Do not use abrasive cleansers.

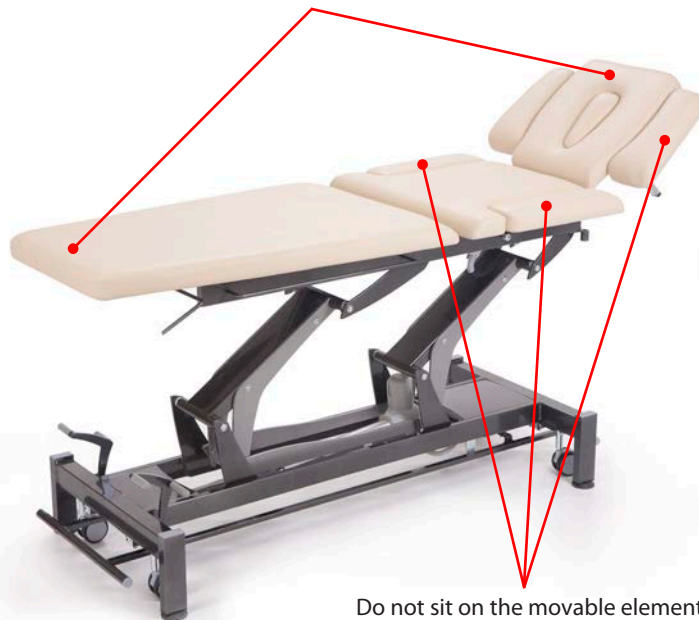
⚠ CAUTION

Do not overload Montane Table. **Patient weight may not exceed 150 kg.**

In case the electrical system or the actuator cover comes in contact with liquid of any kind, immediately pull the power supply plug out of the mains socket and contact the manufacturer's service department.

Protect electrical systems from contact with liquids (e.g. beverages, water, cleaning and disinfection preparations).

Do not put a load on the head and foot sections as shown below.



Do not sit on the movable elements of the head and chest sections!

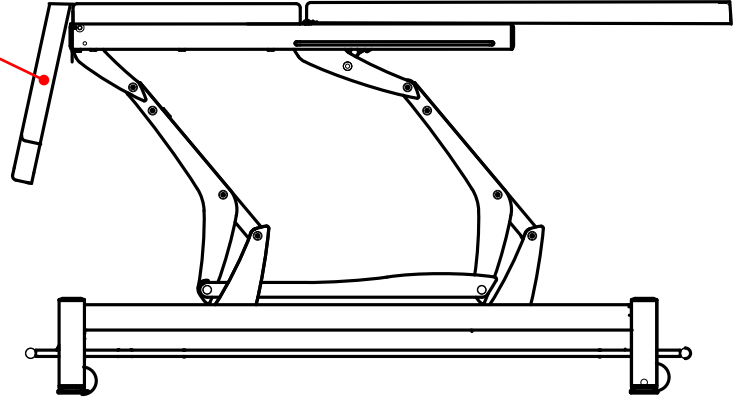
⚠ CAUTION

Do not lower the table with its front section folded down!

Lowering the table to the lowest possible position while its head section is deflected or in the down position may cause a collision between the head section and the lower frame elements.

This can result in blocking the height adjustment mechanism.

Permanent and irreversible damage to the structure of the table may occur!

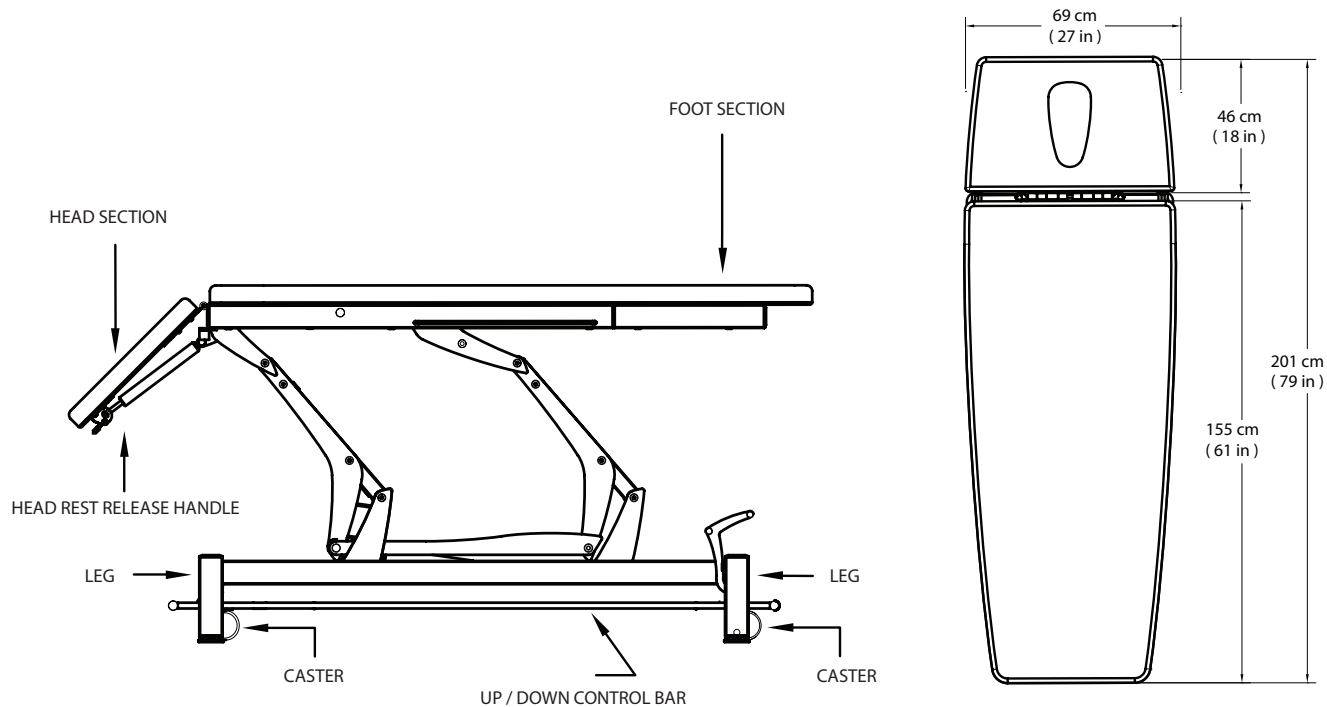


The manufacturer shall not assume liability for damages resulting from improper (not compliant with conditions provided in this Operation Manual) use of the Montane Table Line.

MONTANE TABLE LINE

Montane Table Line

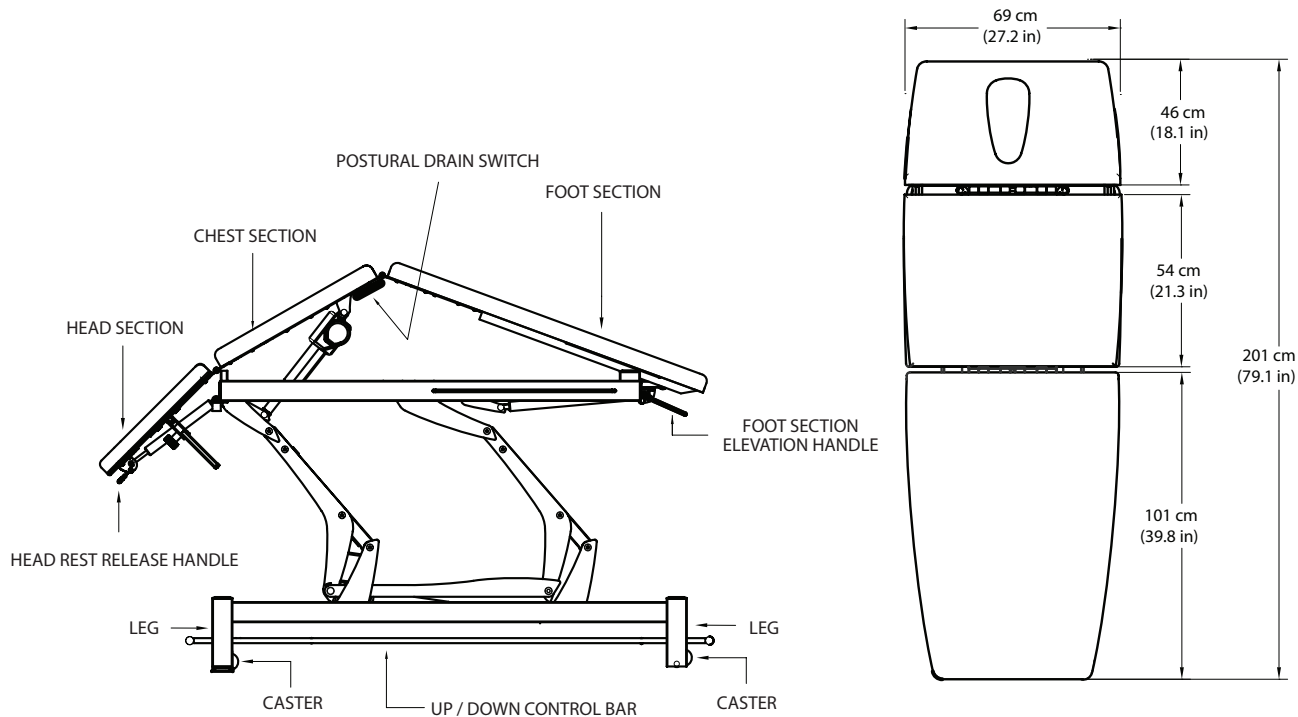
TATRAS 2 SECTION TABLE



MONTANE TABLE LINE

Montane Table Line

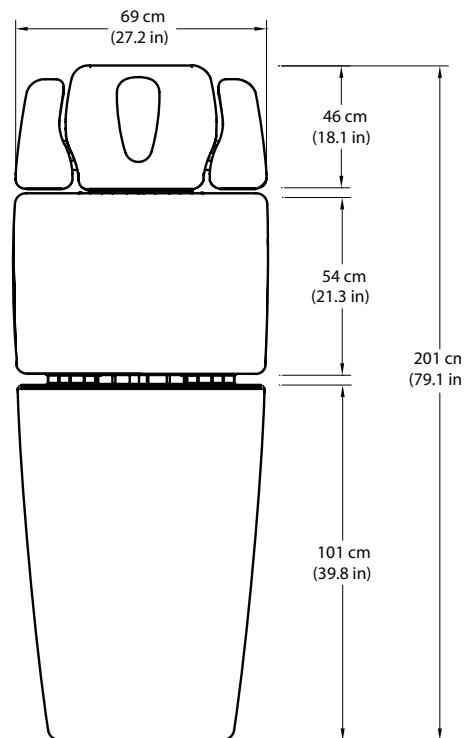
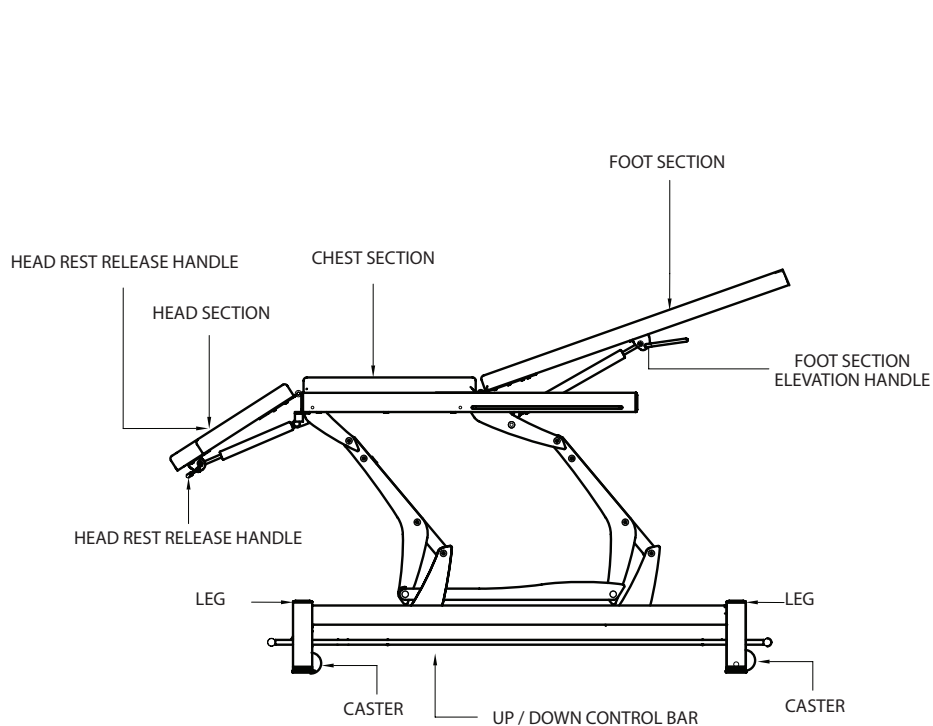
ATLAS 3 SECTION TABLE



MONTANE TABLE LINE

Montane Table Line

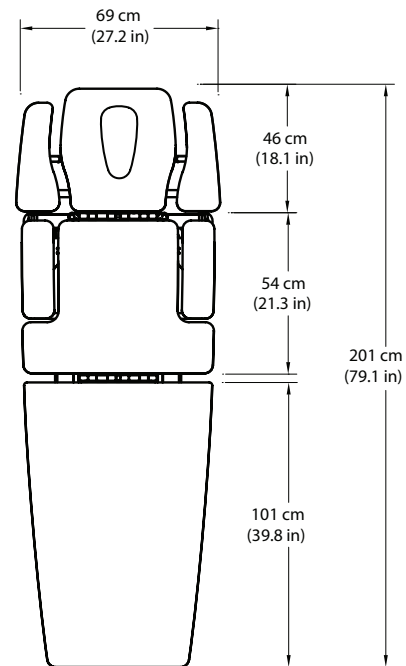
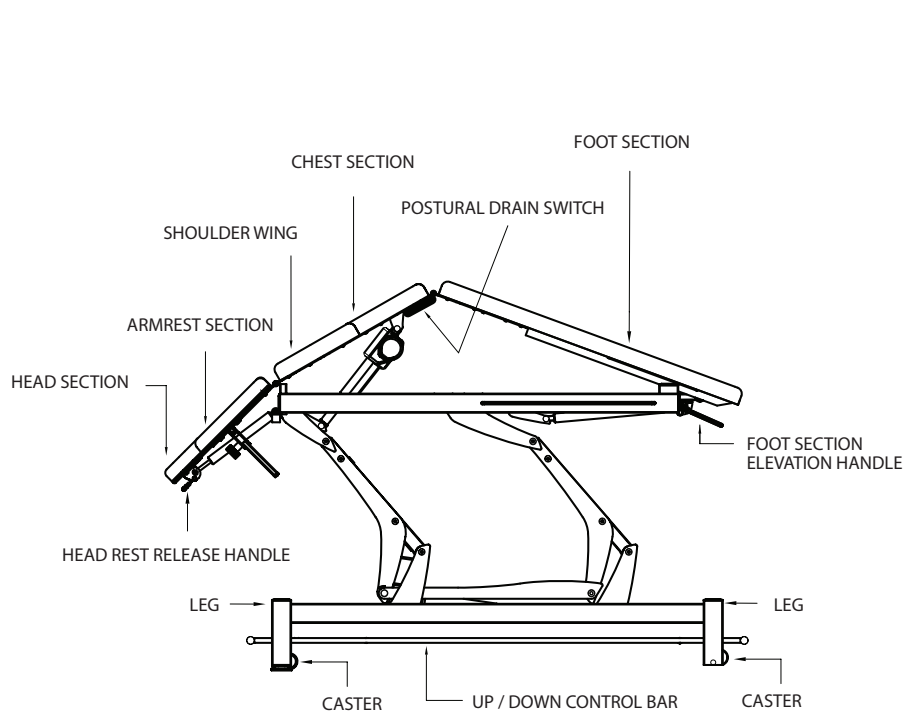
ALPS 5 SECTION TABLE



MONTANE TABLE LINE

Montane Table Line

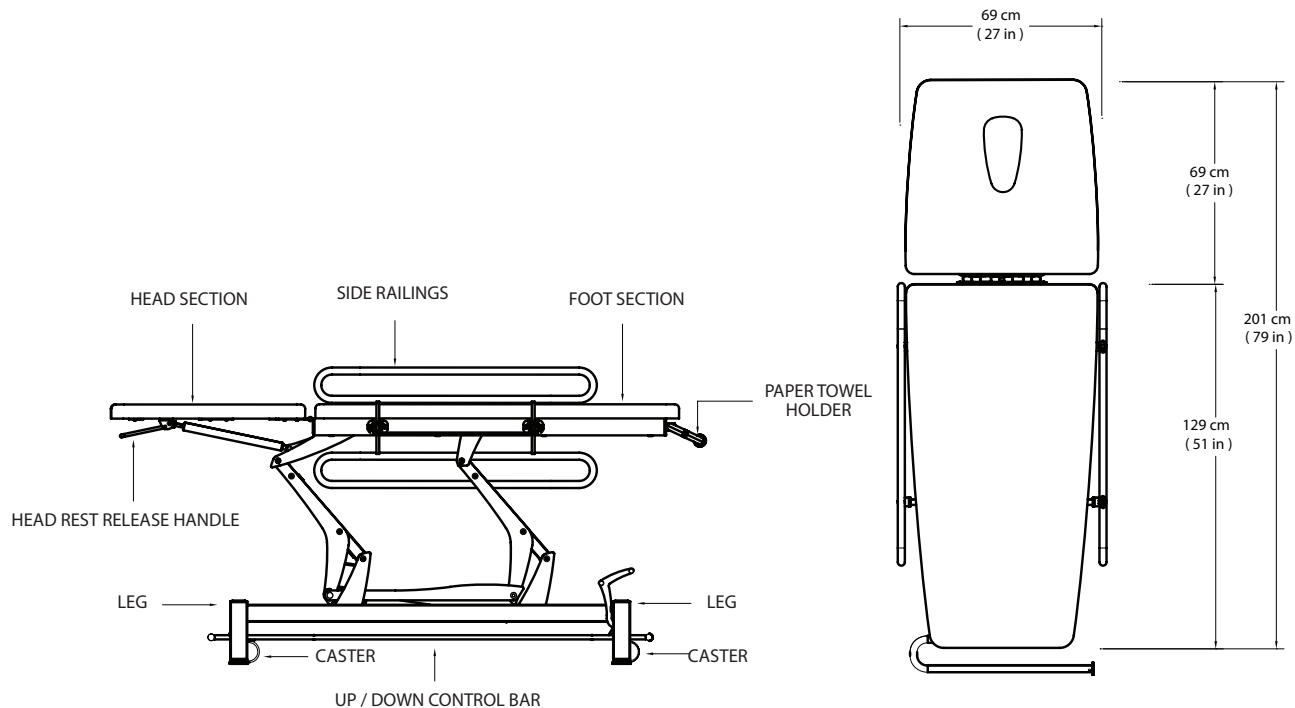
ANDES 7 SECTION TABLE



MONTANE TABLE LINE

Montane Table Line

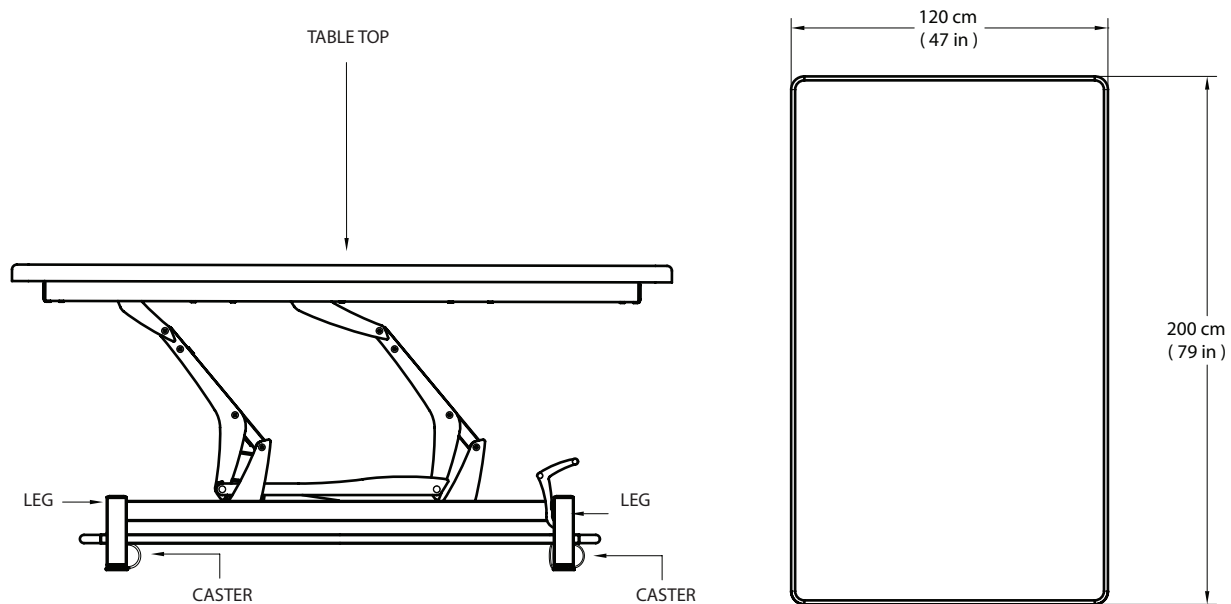
DOLOMITES 2 SECTION EXAMINATION TABLE



MONTANE TABLE LINE

Montane Table Line

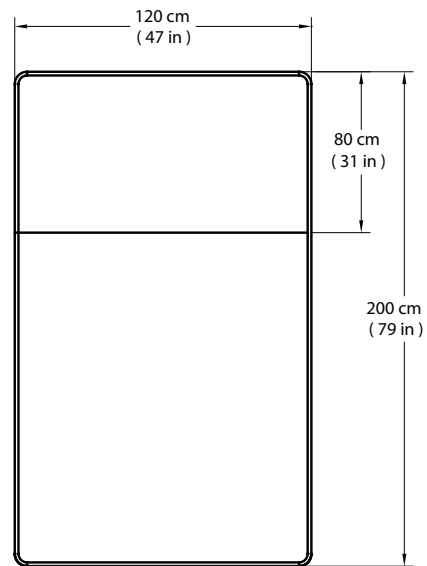
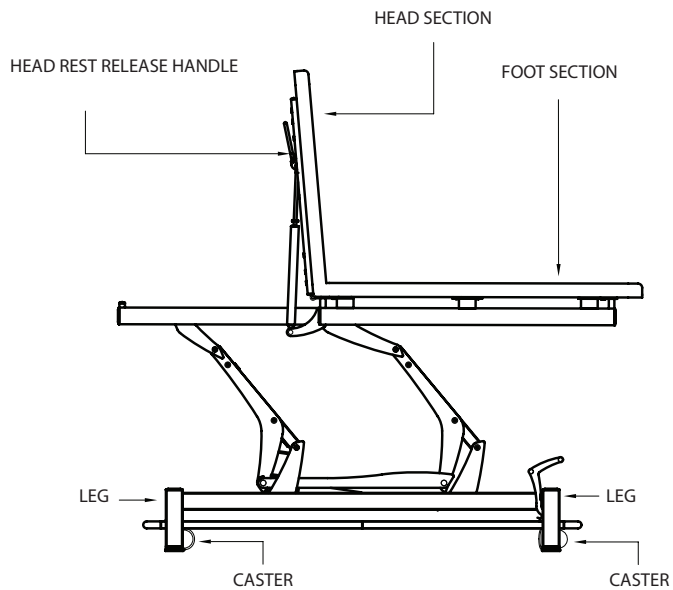
TAURUS 1 SECTION BOBATH TABLE



MONTANE TABLE LINE

Montane Table Line

TAURUS 2 SECTION BOBATH TABLE



DESIGN AND FUNCTION

Montane Table Line

COMPONENTS OF THE MONTANE TABLE

The frame of the table is made of welded steel sections coated with powder paint. It includes the following components:



1. **Bottom Frame**—A support base for the whole unit with a foot-operated height adjustment switch assembly
 - 2 Wheels/2 Legs: With two small wheels and two legs
 - 4 Wheels: With four legs and four casters lifted by means of a foot-operated lever
2. **Upper Frame**—A base for the table top, with an electric actuator for height adjustment
3. **Table Top**—Allows patients to assume comfortable position for the treatment with the possibility of manual adjustment of elevation and depression angles of the head, chest, and/or foot sections (depending on the type of table)
4. **Front/Head Section**—With angle adjustment and a breathing hole

ACCESSORIES AND AUXILIARY EQUIPMENT

Each type of table is provided with a breathing opening in its head section and has rails for fastening the stabilizing belts in the foot sections.

NOMENCLATURE

DESCRIPTION OF DEVICE MARKINGS

The markings on the Montane Table Line are assurance of its conformity to the highest applicable standards of medical equipment safety and electromagnetic compatibility. One or more of the following markings may appear on the device:



Meets Directive
93/42/EEC



Intertek

Certified to CAN/CSA
Standard C22.2
No. 601.1-M90w/A2

Warning: Pinch Point



Consult Instructions For Use



Type B Applied Part



Prescription Only



Class II Equipment



Postural Drain Elevation

DOWN



UP









**Council Directive 2002/96/EC concerning
Waste Electrical and Electronic (WEEE).
Indicates a requirement not to dispose of
WEEE as municipal waste. Contact your
local distributor for information regarding
disposal of the unit and accessories.**



SPECIFICATIONS

Montane Table Line

TABLE SPECIFICATIONS

Parameter	100V	120V	230V
Voltage Frequency:	60 Hz	60 Hz	50 Hz
Current Consumption:	2.3 A	1.9 A	1.0 A
Fuses:	None	None	None
Duty Cycle:	2 minutes "on"/18 minutes "off"	2 minutes "on"/18 minutes "off"	2 minutes "on"/18 minutes "off"
Weight (with cushions):	110 kg (242 lbs)	110 kg (242 lbs)	110 kg (242 lbs)
Lifting Capacity:	150 kg (330 lbs)	150 kg (330 lbs)	150 kg (330 lbs)
Table Length (Head to Toe):	201 cm (79 in)	201 cm (79 in)	201 cm (79 in)
Table Height	49 - 101 cm (19 - 40 in)	49 - 101 cm (19 - 40 in)	49 - 101 cm (19 - 40 in)
Electrical Safety Classification Functionally Earthed	Class II 	Class II 	Class II 
Electrical Type:	Type B 	Type B 	Type B 

SPECIFICATIONS

Montane Table Line

TABLE SPECIFICATIONS

Technical Parameters of Montane Table Line

Technical Data		Montane Table Line						
		Tatras	Atlas	Alps	Andes	Atlas PD	Alps PD	Andes PD
Length of the Table Top [cm]	Head Section	46	46	46	46	46	46	46
	Chest Section	-	54	54	54	54	54	54
	Foot Section	155	101	101	101	101	101	101
	Total	201						
Angle Adjustment (Elevation: Depression) [Degrees]	Head Section	40:70	40:70	40:70	40:70	40:70	40:70	40:70
	Chest Section					30:00	30:00	30:00
	Foot Section		85:0	85:0	85:0	85:30	85:30	85:30
Height Adjustment [cm]	Minimum	49						
	Maximum	97, ..., 101						

(continued)

SPECIFICATIONS

Montane Table Line

TABLE SPECIFICATIONS – (continued)

Technical Data		Montane Table Line					
		Tatras	Atlas	Alps	Andes	Atlas PD	Alps PD
Width of the Table [cm]		Approx. 69					
Max Load [kg]	Not More Than	150					
Weight [kg]	Not More Than	110					
Power Supply and Electrical Security of the Actuator	Supply Voltage	230 VAC/50 Hz, 120 VAC/60 Hz, 100 VAC/60 Hz					
	Power Consumption	max. 120 W			max. 160 W		
	Protection Class	II					
	Protection Level	IP54					
Ambient conditions (relative temperature, humidity, air pressure)	Work	+10°C to +40°C, 30% to 75% (no precipitation), 700-1060 hPa					
	Storage	+5°C to +45°C, max 75% (no precipitation), 700-1060 hPa					
	Transport	-10°C to +45°C, 20% to 95% (no precipitation), 700-1060 hPa					

TECHNICAL SPECIFICATIONS

TABLE 1: GUIDANCE AND MANUFACTURER'S DECLARATION – ELECTROMAGNETIC EMISSIONS

The Montane Tables are intended for use in the electromagnetic environment specified below. The customer or the user of the Montane Tables should assure that it is used in such an environment.

Emission Tests	Compliance	Electromagnetic Environment - Guidance
Harmonic emissions IEC 61000-3-2	Class B	The Montane Tables are suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Voltage fluctuations IEC 61000-3-3	Complies	The Montane Tables are suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.


TABLE 2 & 3: GUIDANCE AND MANUFACTURER'S DECLARATION– ELECTROMAGNETIC IMMUNITY

The Montane Tables are intended for use in the electromagnetic environment specified below. The customer or the user of the Montane Tables should assure that it is used in such an environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance
			Portable and mobile RF communications equipment should be used no closer to any part of the Montane Tables, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
			Recommended Separation Distance:
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	Not Applicable	$d = \frac{[3.5] \sqrt{P}}{V_1}$
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	Not Applicable	$d = \frac{[3.5] \sqrt{P}}{E_1}$ 80 MHz to 800 MHz $d = \frac{[7] \sqrt{P}}{E_1}$ 800 MHz to 2.5 GHz

TECHNICAL SPECIFICATIONS

TABLE 2 & 3: GUIDANCE AND MANUFACTURER'S DECLARATION – ELECTROMAGNETIC IMMUNITY – (continued)

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance
			<p>where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site surveys, should be less than the compliance level in each frequency range ^b.</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol: </p>

NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Montane Tables are used exceeds the applicable RF compliance level above, the Montane Tables should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Montane Tables.

b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	±2 kV for power supply lines ±1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge (1) IEC 61000-4-5	±1 kV differential mode ±2 kV common mode	±1 kV differential mode ±2 kV common mode	Mains power quality should be that of a typical commercial or hospital environment.

TECHNICAL SPECIFICATIONS

TABLE 2 & 3: GUIDANCE AND MANUFACTURER'S DECLARATION – ELECTROMAGNETIC IMMUNITY – (continued)

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) for 5 sec	<5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Montane Tables require continued operation during power mains interruptions, it is recommended that the Montane Tables be powered from an uninterruptible power supply or a battery.
Power frequency (50/60Hz) magnetic field IEC 61000-4-8	3 A/m	Not Applicable	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE: U_T is the a.c. mains voltage prior to application of the test level.

NOTE:(1) These results apply to the 230 Vac Power Supply.

TABLE 4: RECOMMENDED SEPARATION DISTANCES BETWEEN PORTABLE AND MOBILE RF COMMUNICATIONS EQUIPMENT AND THE MONTANE TABLES

The Montane Tables are intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Montane Tables can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Montane Tables as recommended below.

Rated Maximum Output Power of Transmitter W	Separation Distance According to Frequency of Transmitter m		
	150 kHz to 80 MHz $d = \frac{[3.5]\sqrt{P}}{V_1}$	80 MHz to 800 MHz $d = \frac{[3.5]\sqrt{P}}{E_1}$	800 MHz to 2.5 GHz $d = \frac{[Z]\sqrt{P}}{E_1}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

MONTANE TABLE LINE TROUBLESHOOTING

A. GENERAL:

1. Information in this section, with respect to electronic components, is intended to help with troubleshooting various components of the table.
2. Procedures are provided to determine whether electrical components need to be replaced.
3. Once it has been determined that a particular part requires replacement, use only parts obtained from DJO Global LLC.

B. GENERAL - REPLACEMENT COMPONENTS

1. Critical component replacement parts for Montane tables are available as subassemblies only. Individual components of these subassemblies will not be made available by DJO, LLC.

C. GENERAL - TESTS AND REPAIR PROCEDURES

1. Certain tests and repair procedures may require use of special tools and/or fixtures. These will be listed at the particular test where they are required. Testing with any other special tool or fixture other than those stated could give erroneous readings or test results. Always perform the tests exactly as stated to ensure accurate results.
2. Test equipment settings will be listed for each test performed prior to the respective test. This will ensure the test is performed to DJO, LLC standards and enable proper readings.

D. MONTANE TABLE LINE VISUAL INSPECTION

Lift a retractable Caster Pedal up with the toe of your shoe and verify the casters lock and the table cannot be easily moved. Press the retractable Caster Pedal down and move the table. Verify that the table moves easily and freely. Lift the Retractable Caster Pedal to lock the Casters for the inspection and plug the table into main power.

NOTE: The visual inspection covers the Montane table line with and without postural drain. When performing the visual inspection, disregard information that does not apply to the table purchased facility.

Inspect all of the cushions on the table. Make sure the cushions are securely fastened to the frame and are without rips and tears.

On the back section of the table, press the back section elevation lever and the back cushion together. While continuing to hold the lever and cushion, together move the lever and cushion up and down, ensuring they move freely and smoothly. Release the back section elevation lever when the cushion is raised to lock into place.

Pull down on each side of the back cushion to verify the gas springs are firmly supporting the back section. With the cushion in a raised position, inspect the upper and lower connections of the gas springs. Ensure the gas springs are not loose and the plastic covers are present and secure over the top connections of the gas springs.

MONTANE TABLE LINE TROUBLESHOOTING

Inspect the gas spring at the head of the table. Check the function of the gas spring by lifting the head section release handle. While holding the lever, move the head section up and down to ensure it moves smoothly and freely. Release the lever with the head section in the raised position and press down on the head section to ensure that the gas spring holds firmly.

The 7 section table head section is surrounded by the arm rest section. From the underside of the table, loosen the arm section to lower the arm rest section. Raise the arm rest section and confirm that it locks back into place.

Working around the table, press the elevation bar. Verify that the table moves up and down when the bar is pressed.

If the table has postural drain, place the head section of the table in a level or neutral position. The postural drain switches are on both sides of the chest cushion. Press the postural drain switches to the right and left to verify the postural drain moves and up and down smoothly when the postural drain switch is pressed.

On the 7 section table, raise the shoulder wing to lock into place. Using one hand, pull the shoulder wing knob to release and lower to the side.

Unplug the table from mains power and check the connections on the control box.

CONTROL BOX

CONTROL BOX DAMAGE:

SYMPTOMS:

- No transfer switch enable signal on main PCB
- No motor reaction while moving a frame,
- No PD motor reaction while switching PD buttons.

RESOLVING PROBLEM:

- Control box check,
- Replacing the control box on new one.

CONTROL BOX

CONTROL BOX CHECK:

Step1:

Check the voltage on main PCB input.

If there is no voltage:

Look for cable damage, and if damage is found, replace the cable



CONTROL BOX

CONTROL BOX CHECK:

Step 2:

Check the voltage on connection J602

If there is no voltage:

- Check the fuse i socket F601- if damaged – replace it
- If the fuse is fine, main PCB has to be changed.



CONTROL BOX

CONTROL BOX CHECK:

Step3:

Check the voltage in connection J603

1. No voltage:

- Transformer damage - replace it

2. Voltage appears:

- No reaction on frame movement an PD buttons- replace the control box.



MAIN MOTOR

MAIN MOTOR DAMAGE:

SYMPTOMS:

No motor reaction while moving a frame

(In this case we have to exclude damage of the other parts)

The motor gives weird sound – creaks

RESOLVING A PROBLEM:

Replace the motor on a new one

HEIGHT ADJUSTMENT

HEIGHT ADJUSTMENT PROBLEMS

SYMPTOMS:

- No couch reaction while moving a frame
- Couch is only lifting
- Couch is only lowering
- Couch i lifting or lowering itself

RESOLVING PROBLEM:

- Control box check
- Magnetic sensor adjustment inside the control box
- Control box replace

GAS SPRING

GAS SPRING REPLACEMENT

SYMPTOMS:

- Oil leak from spring
- No adjustment possibility of the headrest and legs section
- Head rest and legs section fall down or lift up itself

RESOLVING PROBLEM:

- Gas spring adjustment
- Gas spring replacement

PROBLEMS

OTHER PROBLEMS WHICH MAY APPEAR WHILE USING THE TABLES:

SYMPTOMS:

- DPA height adjustment problem
- Wheels damage
- Upholestry damage

PD HEIGHT ADJUSTMENT

SYMPTOMS:

- DPA buttons give no effect
- DPA function works only one way (up or down)

RESOLVING PROBLEM:

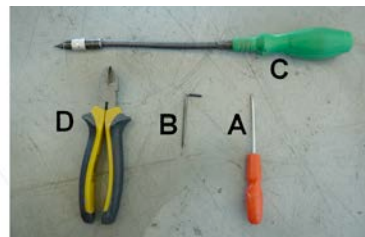
- Replacing the upper motor
- Replacing the DPA buttons

REMOVAL AND REPLACEMENT

Montane Table Line



CONTROL BOX



TOOLS



PARTS LIST



1. Remove the metal cover **C**






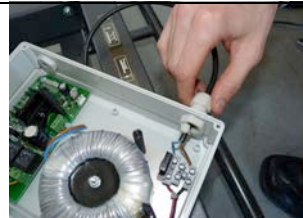


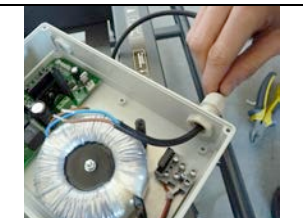

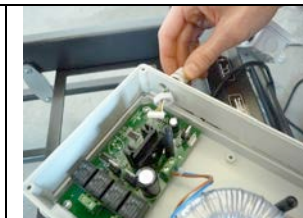
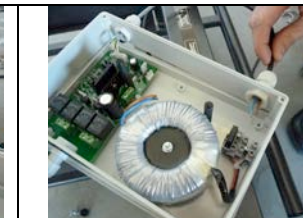
PLEASE POWER OFF THE TABLE BEFORE STARTING ANY WORK ON THE TABLE

2. Loosen the cable protection sleeve

3. Open the control box using tool **B**

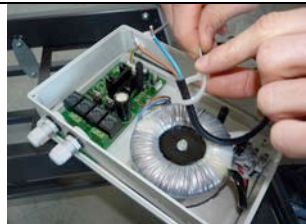


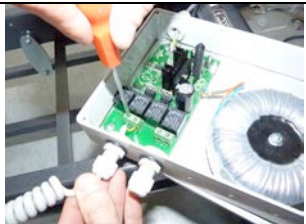








REMOVAL AND REPLACEMENT

Montane Table Line

			
3. Open the control box using tool B	4. Remove cover with the power on indicator diode	5. Loosen the cable fastening sleeve	6. Un-screw the wires from BCB using A
			
7. Disconnect the postural drain switch wires	8. Loosen the power cord inlet	9. Loosen screws mounting the power cord using A	10. Cut the tie wrap using D
			
10. Remove the power cord	11. Install the new control box	12. Install the postural drain switch wires	13. Install the power cord

REMOVAL AND REPLACEMENT

Montane Table Line

			
14. Fasten power cord with the tie wrap on the power cord and cut excess of the tie wrap using D		15. Tighten the power cord using A	16. Connect the main frame actuator's wires using tool A (please note the colors of the wires in accordance to DC polarity)
			
17. Fasten the wire inlets	18. Install the cover with the power on diode	19. Install the cover using B	20. Mount the box into the frame
			
21 Fasten the cable protection sleeve	22. Install the metal cover C		23. The new control box is in!

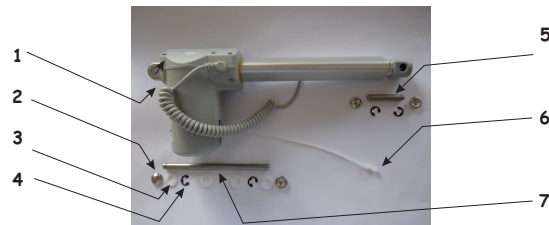
REMOVAL AND REPLACEMENT



MAIN FRAME ACTUATOR



TOOLS



PARTS LIST



1. Remove the cover of the controller















2. Remove the controller cover using E and remove the actuator's wires using C



3* Cut the tie wrap 6 using B

REMOVAL AND REPLACEMENT

Montane Table Line

			
1.	4*. Remove the shaft item 5 (please note the loose washers)	5*. Remove the second shaft item 5	
			
6*. Remove the switch	7. Remove the upper frame using F and G	8. View of the main frame with the upper frame removed	
			
9. Remove the decorative cap item 2 using tool C	10. Remove the E-Rings item 4 using C	11. Remove shaft item 7 using K	12. Please note the plastic bearings during the removal of the shaft

REMOVAL AND REPLACEMENT

Montane Table Line



13. View after the shaft removal 7 (please note the spacers)



14. Position metal arms as shown and protect from damage



15. Remove the decorative cap item 2 using C



16. Remove E-Rings item 4 using C



17. Remove shaft item 5



18. View of the removed actuator



19. Start installing new actuator by first inserting shaft item. 5



20. Mount E-Rings using A



21. Install decorative caps item. 2



22. Connect actuator to controller using C

REMOVAL AND REPLACEMENT

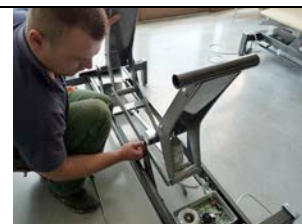
Montane Table Line



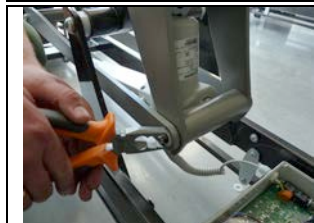
23. Move the actuator's piston on the maximum out position



24. Mount actuator using shaft item 7 and install washers item 4



25. Install arms connector on the shaft



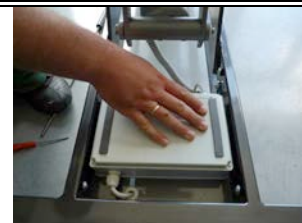
26. Install E-Rings item 4 using **A**



27. Install decorative caps item 2 using **H**



28. Install controller's cover using **E**



29. Press controller into its secure mounting bracket



30. Install metal cover over controller



31. Install the upper frame on the main frame using **G i l**
(please use the thread lock on the threads)



32. Install the upper frame actuator, secure wires with the tie wrap item 6 and connect the postural drain actuator's switch using **D** and **F**

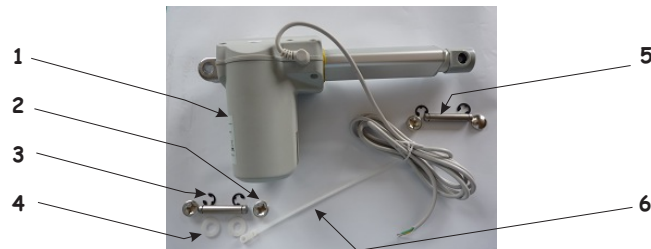
REMOVAL AND REPLACEMENT



POSTURAL DRAIN ACTUATOR



TOOLS



PARTS LIST



1. Remove decorative cap item 2 using C








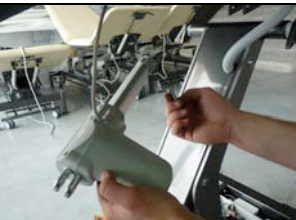






2. Remove E-Rings item 3 using C



3. Cut the tie wrap item 6 using B













REMOVAL AND REPLACEMENT

Montane Table Line

			
<p>4. Remove shaft item 5 (look for loose washers item 4)</p>	<p>5. Remove decorative cap item 2 using C</p>	<p>6. Remove E-Rings item 3 using C</p>	
			
<p>7. Remove shaft item 5</p>	<p>8. Remove cover from the control box using D and remove the actuator's wire using C</p>		
			
<p>9. Remove actuator</p>	<p>10. Start installing the new actuator by inserting the shaft item 5</p>	<p>11. Install E-Ring item 3 using A</p>	<p>12. Install decorative cap 2 using I and F</p>

REMOVAL AND REPLACEMENT

Montane Table Line

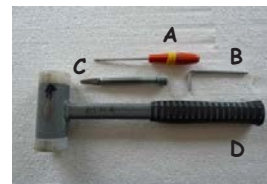
			
<p>13. Thread in the actuator's wire using H</p>	<p>14. Install shaft item 5 and washer item 4</p>		
			
<p>15. Install E-Ring item 3 using F</p>	<p>16. Install decorative cap item 2 using F and I</p>	<p>17. Install screw mounted tie wrap item 6 using D</p>	<p>18. Fasten wires using tie wrap</p>
			
<p>19. Cut the excess of the tie wrap using B</p>	<p>20. Move the excess of wires into the lifting arm metal profile</p>	<p>21. Mount flexible plastic tubing inside of the lifting arm metal profile and fasten tubing locking plastic rings into the upper and lower parts of the lifting arm metal profile</p>	

REMOVAL AND REPLACEMENT

Montane Table Line



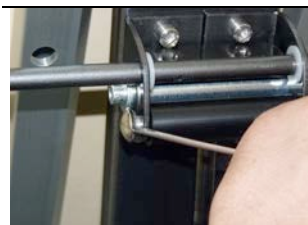
UPPER FRAME SPRING P



TOOLS



PARTS LIST



1. Remove cap item. 6 and E-ring item 8 using A and remove piston item. 5















2. Remove decorative cap item. 10 using A



3. Remove E-ring item. 11 using A

REMOVAL AND REPLACEMENT

Montane Table Line

			
4. Remove piston item 9 (please watch for the loose spacers item 12)	5. Remove screw item 3 including washer item 4 using B (on both sides)	6. Remove broken gas spring item 1 (remove used plastic balls item 2) from mounting piston 5	
			
7. Thread in the new gas spring item 1	8. Install new friction balls item 2 (install 2 parts per one opening) and install screw with washers items 3 and 4 using wrench B	9. Install pivot item 7 and secure it with E-ring item 6 and decorative cap item 8	
			
10. Install piston item 12	11. Install E-ring item 11 using C i D	12. Install decorative cap item 10 using C i D	13. View of the installed gas spring

REMOVAL AND REPLACEMENT



BACK CUSHION GAS SPRINGS S



TOOLS



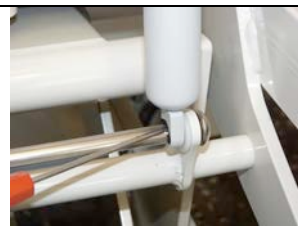
PARTS LIST



1. Remove decorative cap item 4 using **C**




2. Remove E-Rings item 5 using **C**
(picture shows left spring, the right one will be in reversed order)



3a. Remove shaft item 8,
please watch for plastic washers item 9

REMOVAL AND REPLACEMENT

Montane Table Line

			
3b. Remove shaft item 8	4. Remove screw item 1 and washer item 2 using B (on the side of the spring being removed)	5. Un-screw the malfunctioning spring	
			
6. Remove the friction mounting plastic ball item 7	7. Screw in the new gas spring item 3 and adjust (in relationship to the other spring)	8. Insert the new plastic friction mounting ball item 7 and fasten with screw and washer items 1 and 2 using B	9. Insert shaft item 8 and plastic washers item 9
			
10. View of the assembly after the shaft is installed	11. Install E-Rings item 5 using A	12. Install decorative cap item 4 using D and E	

REMOVAL AND REPLACEMENT

Montane Table Line



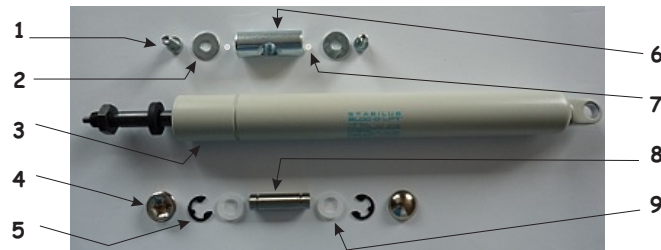
*M-S2.Fx
M-S3.Fx
M-P3.Fx
(bez boczków)*



TOOLS



*M-S5.Fx
M-S7.Fx
M-P5.Fx
M-P7.Fx
(z boczkami)*

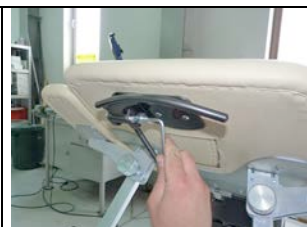


PARTS LIST

HEAD SECTION GAS SPRING



1. Un-tighten screws item 7 using tool B



2. Remove decorative caps item 4 using tool C



3. Remove E-Rings item 5 using tool C

REMOVAL AND REPLACEMENT

Montane Table Line

<p>4. Remove piston item 2 (please notice loose washers)</p>	<p>5. Un-screw the spring item 1</p>			<p>6. Remove piston item 6, and remove used friction plastic balls item 7</p>	<p>7. Screw in new gas spring, adjust release mechanism</p>
<p>8. Install plastic locking friction balls item 9 into the holes in piston item 3</p>	<p>9. Lock the spring by tightening screws using tool B</p>	<p>10. Install shaft item 8 – please remember to install washers item 9</p>			
<p>11. Install E-Rings item 5 on the shaft using tool A</p>	<p>12. Install decorative caps item 4 on the shaft using tools D i E</p>	<p>The New Gas Spring is READY ☺</p>			

REMOVAL AND REPLACEMENT

Montane Table Line

MAGNETIC SENSOR ADJUSTMENT

MAGNETIC SENSOR CHECK:

Step 1:

- Remove the control box cover
- Open the control box



REMOVAL AND REPLACEMENT

Montane Table Line

MAGNETIC SENSOR ADJUSTMENT

MAGNETIC SENSOR CHECK:

Step 2:

- Disconnect the motors and DPA cables from the main PCB



REMOVAL AND REPLACEMENT

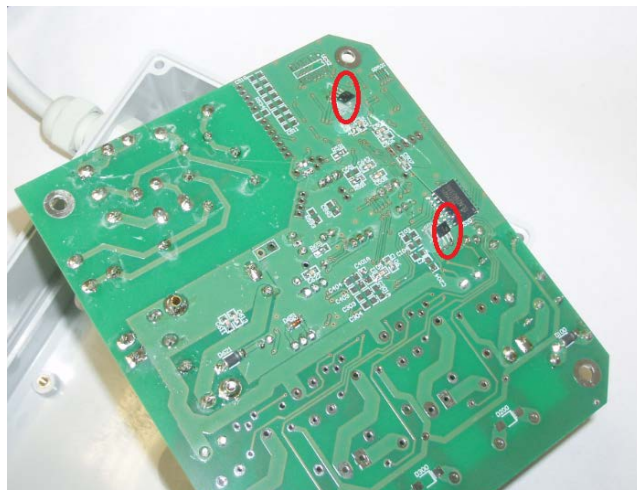
Montane Table Line

MAGNETIC SENSOR ADJUSTMENT

MAGNETIC SENSOR CHECK:

Step 3:

- Unscrew the main PCB and turn it over
- Change position of the magnetic sensors



MAGNETIC SENSOR ADJUSTMENT

MAGNETIC SENSOR CHECK:

Step 4:

- Put the main PCB back to the box
- Using a frame check if the problem is resolved
- If problem still appears:

Change the magnetic sensors position again

- If this gives no effect:

Replace the main PCB

MAGNETIC SENSOR ADJUSTMENT

MAGNETIC SENSOR CHECK:

Step 5:

- Screw back the main PCB,
- Close the control box,
- Cover the control box.

REMOVAL AND REPLACEMENT

Montane Table Line

PDA BUTTONS

PDA BUTTONS REPLACEMENT:

- Open the PDA box
- Cut of the PDA buttons



REMOVAL AND REPLACEMENT

Montane Table Line

DPA BUTTONS

DPA BUTTONS REPLACEMENT:

- Connect the new DPA buttons,
- Screw back the new DPA buttons to the coach



REMOVAL AND REPLACEMENT

Montane Table Line

WHEEL REPLACEMENT

WHEEL REPLACEMENT INSIDE A FRAME:

Step 1:

- Remove the cap and the safety ring



REMOVAL AND REPLACEMENT

Montane Table Line

WHEEL REPLACEMENT

WHEEL REPLACEMENT INSIDE FRAME:

Step2 :

- Pull out the pin (be careful to don't drop the pads inside a frame)



REMOVAL AND REPLACEMENT

Montane Table Line

WHEEL REPLACEMENT

WHEEL REPLACEMENT INSIDE FRAME:

Step 3:

- Install a new wheel



REMOVAL AND REPLACEMENT

Montane Table Line

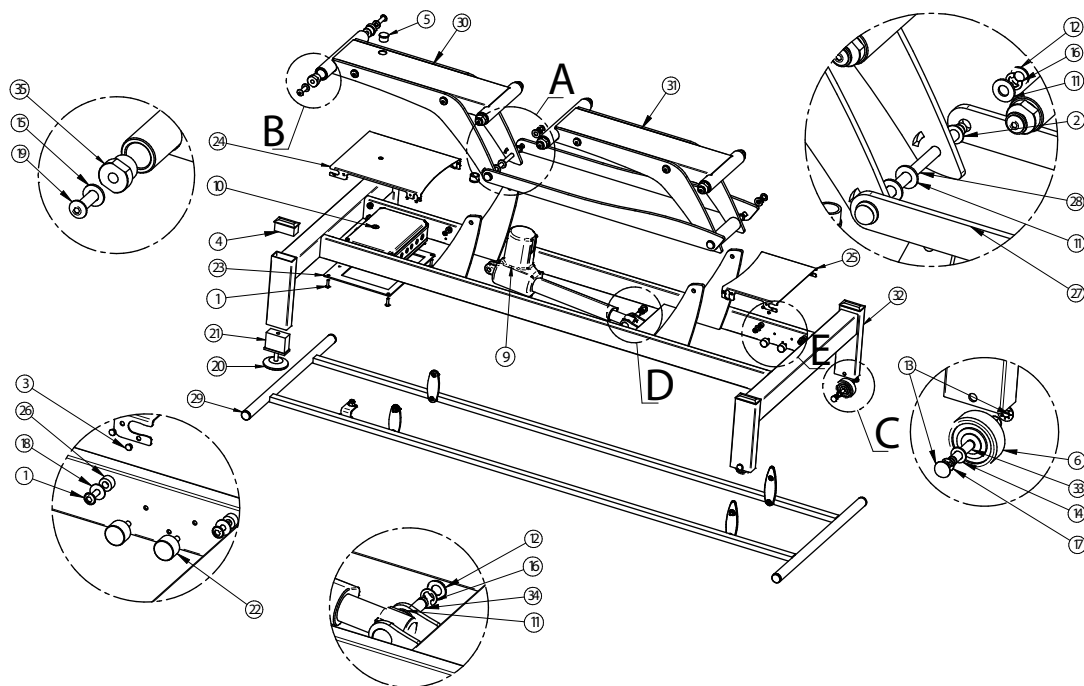
WHEEL REPLACEMENT

STEERING WHEEL REPLACEMENT:

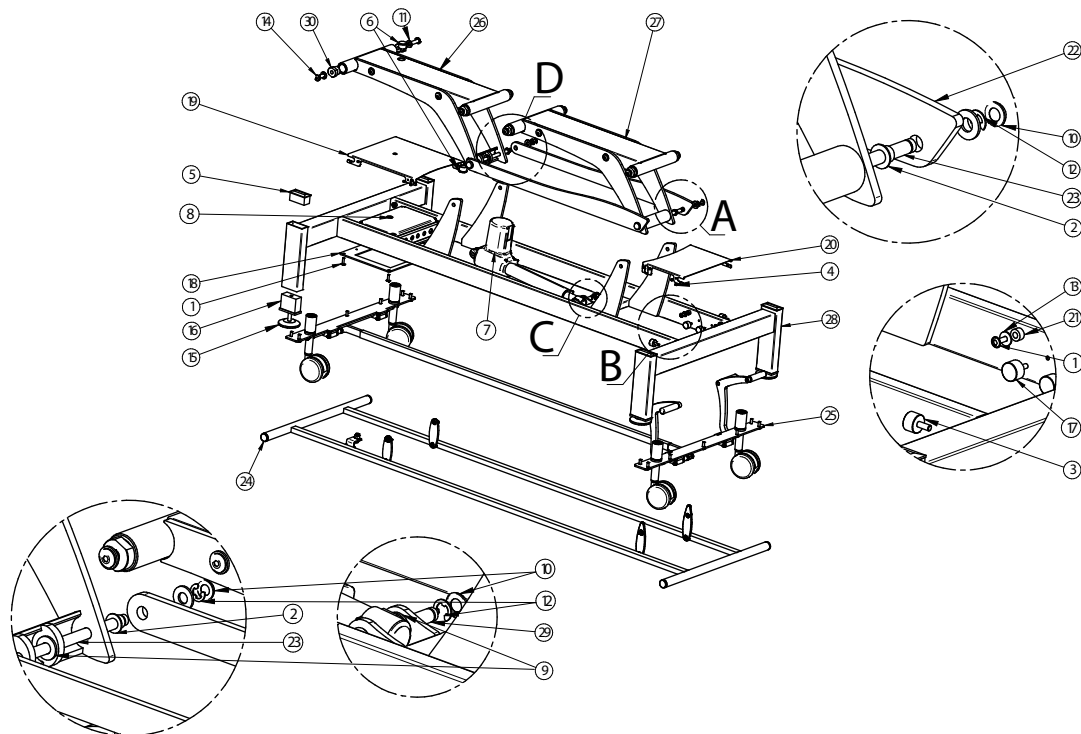
- Pull out the wheel from its socket



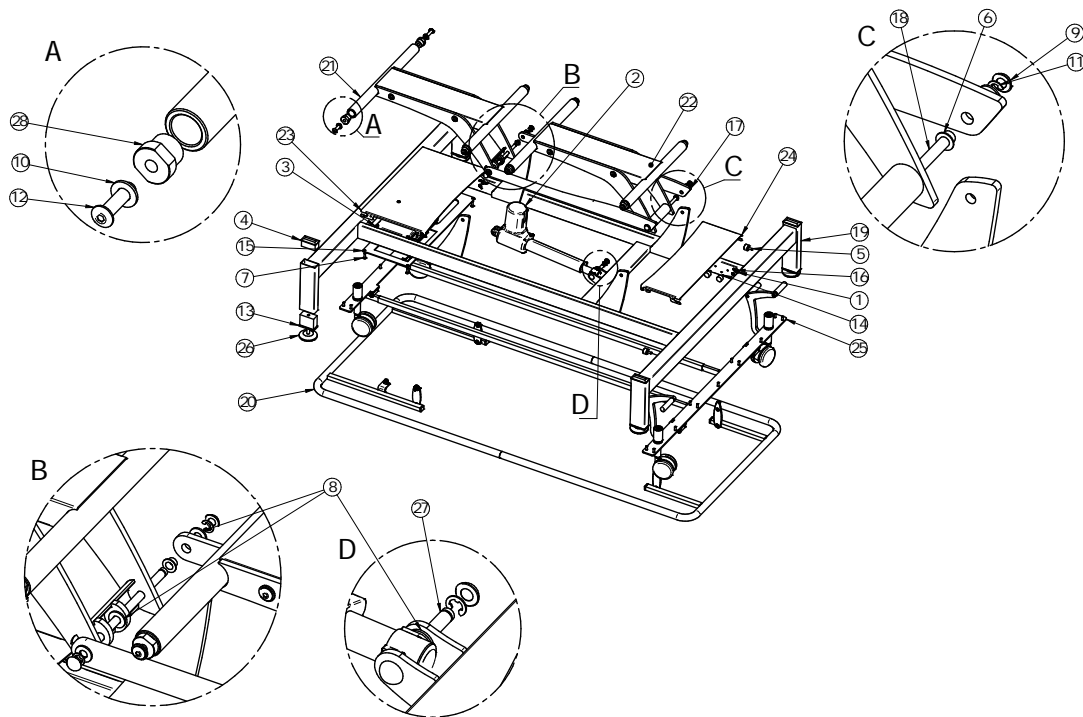
TERAPEUTA TABLE BASE ASSEMBLY



TERAPEUTA TABLE BASE ASSEMBLY



BOBATH TABLE BASE ASSEMBLY



CLEANING THE UPHOLSTERY



We recommend to clean and/or disinfect the upholstered surfaces and other parts of the tables after each use to ensure proper hygiene level.

1. Clean and maintain the upholstery surfaces in the following way:
 - clean regularly with warm water and mild detergent (e.g. soap) solution using a soft cloth (do not use abrasive cleansers).
 - rub the more heavily-stained areas with a soft, damp brush
 - after cleaning, wipe dry with a soft cloth
 - in case the surface has been stained with ball point pen, lipstick, printing ink, etc., remove the stain immediately by rubbing it with a soft cloth
2. Avoid extensive wetting of the surface of the table
3. Disinfect the upholstery and other surfaces using a mild anti-bacterial detergent

4. Never use:
 - cleaning paste, wax, sprays
 - strong detergents, solvents and cleaning agents containing solvents, cleaning preparations for natural leather.

Use of such preparations may cause stiffening and breakages of the cover material as well as adverse change of the glossy finish of the upholstery surface which is not covered by the warranty!

5. Sterilization with the use of the UV rays does not affect the surface of the upholstery.



Before cleaning the table, make sure that the electrical power supply cable has been disconnected from the power supply in the room.

LUBRICATING POINTS

1. Clean the metal parts with a soft, damp sponge. Wipe the parts dry immediately after cleaning.
2. All movable joints must be lubricated every six months or when experiencing squeaks or other noise. We recommend using any available aftermarket lubricants. Protect the upholstered parts from contact with the lubricants and remove any excess amounts or leaks of these with a dry cloth.
3. Check the threaded joints periodically every six months and remove loose connections with a Phillips screwdriver, hex keys (no 4, 5 and 6) and flat spanners (10 and 27 mm). Report all loose connections that cannot be removed to the manufacturer's authorized service and stop using the table until the cause of the problem is resolved.

CHECKING THE GAS SPRINGS (STRUTS)

Montane tables are equipped with gas springs for easy adjustment of the front section inclination angle. To ensure proper performance of the gas springs, check the springs visually for leaks every 3 months. Any perceived performance deficiency or leak must be reported to DJO for technical service immediately.

PERIODIC CHECK OF ELECTRICAL SAFETY

An electrical safety check should be performed in accordance with local or country requirements.

SERVICE

Should the Montane Tables require service, warranty or repair, please contact the selling dealer or your local DJO Customer Service.

EU Directive on Waste Electrical and Electronic Equipment (WEEE) ensures that product is appropriately disposed of or recycled at the end of its life.



WARRANTY

Montane Table Line

DJO, LLC ("Company"), warrants that the Montane Tables ("Products") are free of defects in material and workmanship. This warranty shall remain in effect for two years (24 months) for the cushions and three years (36 months) for the base frame and motor from the date of original consumer purchase. If this Product fails to function during the warranty period due to a defect in material or workmanship, at the Company's option, the Company or selling dealer will repair or replace this Product without charge within a period of thirty days from the date on which the Product is returned to the Company or the dealer.

All repairs to the Product must be performed by a service center certified by the Company. Any modifications or repairs performed by unauthorized centers or groups will void this warranty.

This Warranty Does Not Cover:

- Replacement parts or labor furnished by anyone other than the Company, the selling dealer, or a service technician certified by the Company.
- Defects or damage caused by labor furnished by someone other than Company, the selling dealer, or a certified Company service technician.
- Any malfunction or failure in the Product caused by product misuse, including, but not limited to, the failure to provide reasonable and required maintenance or any use that is inconsistent with the Product User Manual.

DJO, LLC is not responsible for injury or damage resulting from modifications or service performed by non-authorized DJO, LLC service personnel.

COMPANY SHALL NOT BE LIABLE IN ANY EVENT FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some locations do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. To obtain service from Company or the selling dealer under this warranty:

1. A written claim must be made within the warranty period to the Company or the selling dealer.
2. The Product must be returned to the Company or the selling dealer by the owner.

This warranty gives you specific, legal rights and you may also have other rights which vary from location to location.

The Company does not authorize any person or representative to create for it any other obligation or liability in connection with the sale of the Product. Any representation or agreement not contained in the warranty shall be void and of no effect.

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.



DJO is an ISO 13485 Certified Company



Made for DJO, LLC
by Meden-Inmed
ul. Wenedow 2
75-847 Koszalin
Poland
T: 1.800.592.7329 USA
T: +1.317.406.2209
F: +1.317.406.2014
chattgroup.com



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DJO, LLC
1430 Decision Street
Vista
CA 92081-8553
U.S.A.
Tel: 1 800 336 6569
Fax: 1 800 936 6569
www.DJOglobal.com



Medical Device Safety Service (MDSS)
GmbH
Schiffgraben 41
30175 Hannover, Germany
Telephone: + 49 -511-6262-8630
Fax: + 49 -511-6262-8633



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