

Electric Lumbar Traction Bed



Product Manual



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A. Main Technical Parameters

- 1.Voltage: 200 – 240V
- 2.Power: 60W
- 3.Traction Force: between 1 – 99kg, set as desired
(1kg equivalent to 10 Newton)
- 4.Auto mode duration: 1 – 60 mins
- 5.Intermittent time: 10– 1800 seconds (30 mins)
- 6.Traction distance: 1- 250mm
- 7.Traction speed : 4-6mm/s

B.Product Functions and Components

This model of electric lumbar traction bed allows maximum traction force to be set through its controller. During operation, the microprocessor will conduct real-time monitoring of traction force, when traction force reaches the maximum force, it will stop the pulling motion to avoid excessive traction that causes discomfort. At the same time, it is equipped with automatic mode, once operating time is set, it operates automatically. This lumbar traction bed consists of bed board, bed frame, traction belt fixing rings, power inlet, motor, control circuit, tension sensor, controller and etc. Bed surface is made of wooden plank, sponge, artificial leather and other materials.

C.Product Diagram

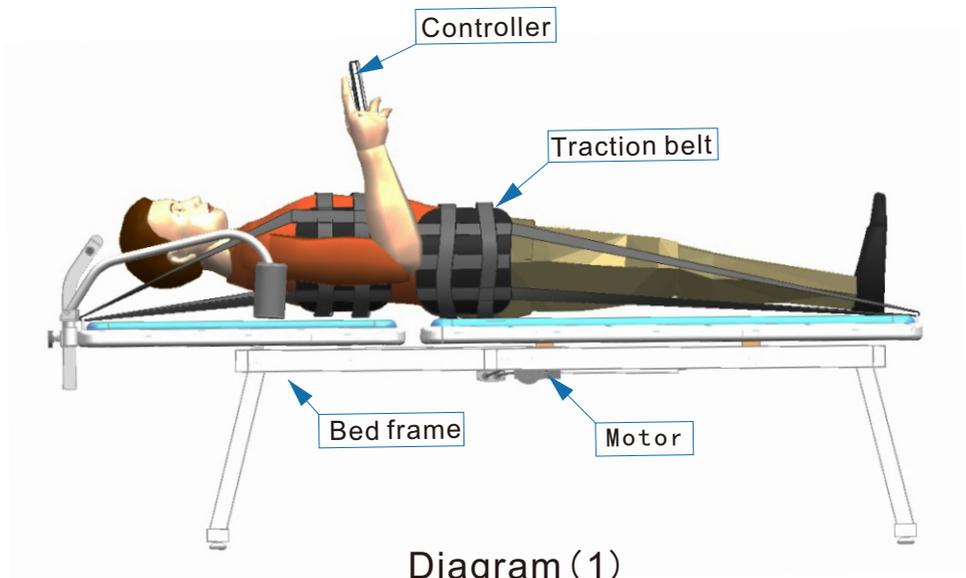


Diagram (1)

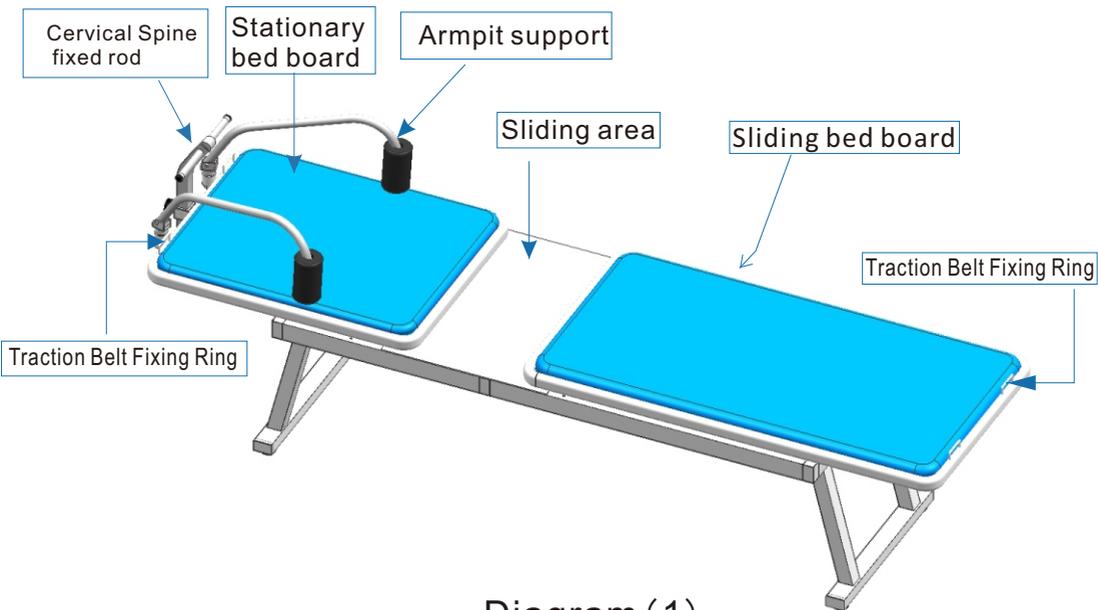
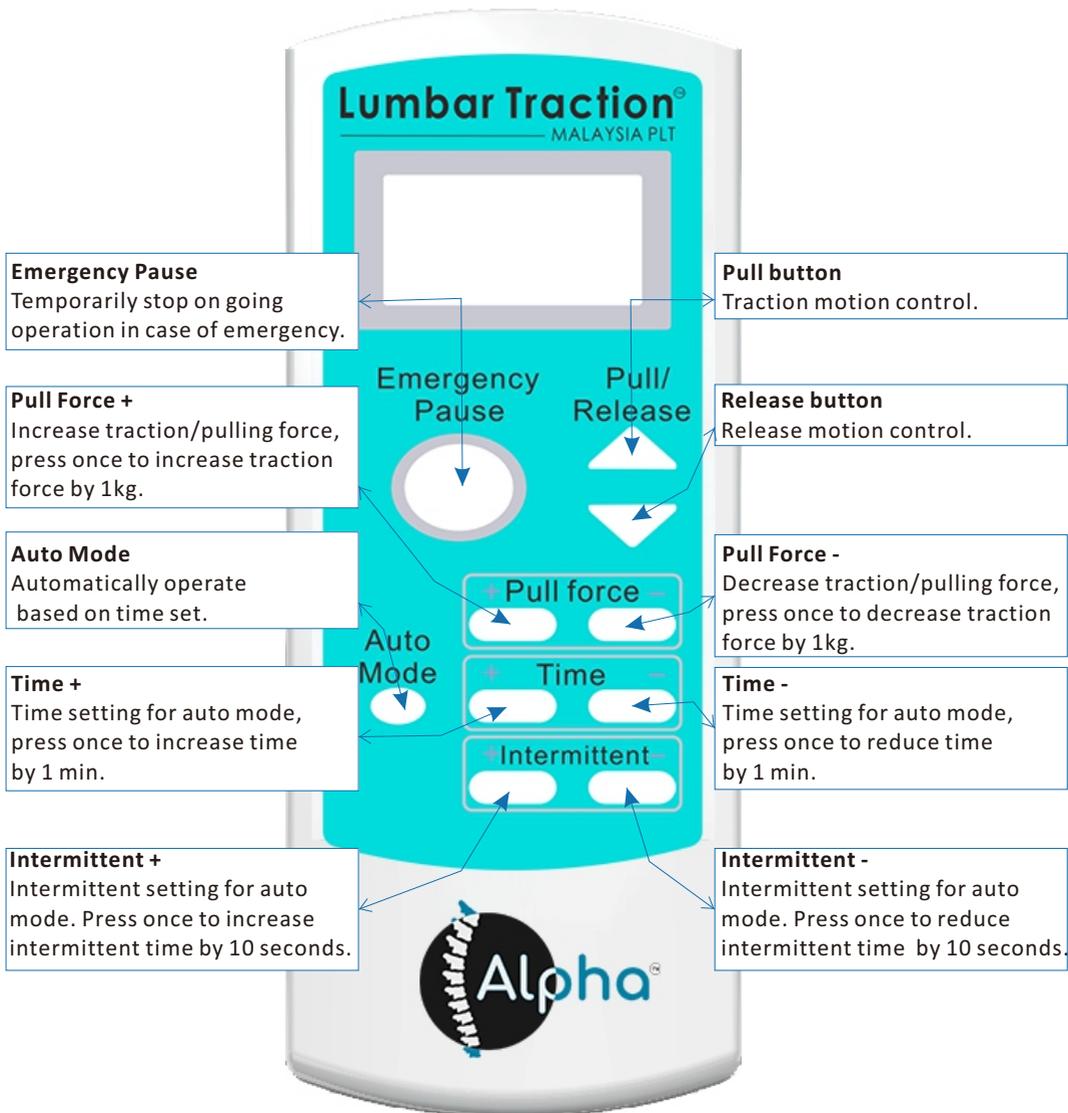


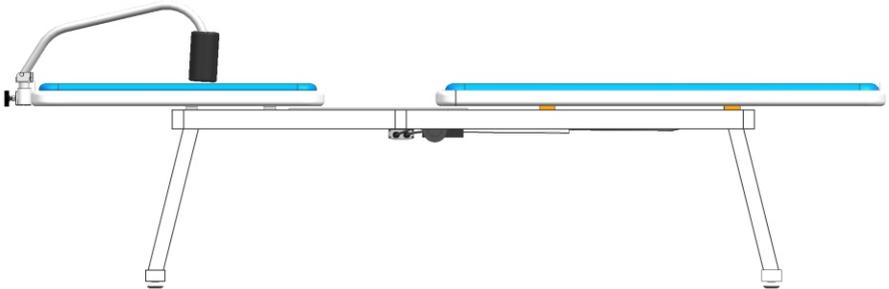
Diagram (1)

D.Using the Buttons on Controller

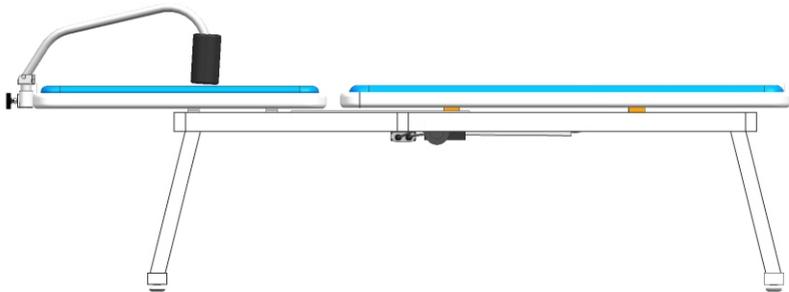


E.How to use

1. Turn on the power, lumbar traction bed will immediately start up, if the sliding bed board is not close up, press the “release” button on the controller to reset its position. When the sliding bed board is closing, please ensure no hand or obstacle at the sliding area.

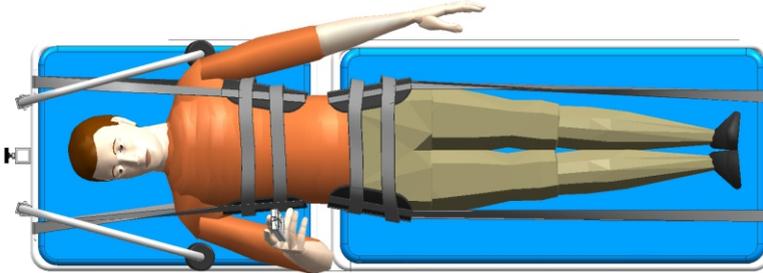


Not fully closed up



Fully closed up

2. After the bed boards are fully closed up, lie flat on the bed, adjust the length of the traction belt and put on the traction belt, tie the belt snugly to prevent the belt from sliding off during traction.



Put on the traction belt

3. After putting on the traction belt, press “Pull force+” or “Pull force-” to set the maximum traction force, for first time user we recommend to set the maximum traction force at 40kg, then gradually increase or decrease the traction force based on own body condition, if one weighs more than 60kg, he/she can increase the maximum traction force by another 10- 20kg; if one is lighter weight or feels that the traction force is too great, he/she may reduce the force as appropriate . After setting the maximum traction force, press “pull” button and the lumbar traction bed will start its pulling motion, after it stops pulling, please wait for 1-2 minutes for the spinal joints to relax. Then press the “release” button to release the pulling force, repeat the same process for a few times to yield the best result. Half way through the process, you may press the “emergency pause” button to stop the pulling motion.

4. If it is inconvenient to repeatedly press the pull and release button, you may choose to use the auto mode. Press on the “time+” and “time-” button on the controller to set the automatic traction time. Under normal circumstance, we recommend to set the traction time at 15 minutes, one may increase or decrease the operating time based on own body condition, then finally press the “auto mode” button, the lumbar traction bed will then automatically pull and release for the stipulated duration. Once “auto mode” button is pressed, the system will automatically save the current setting, and display the same setting when it is turn on again.

5. Once time is up (under auto mode), the lumbar traction bed will stop its pulling motion. Please press the “release” button to reset the sliding bed board to its original position.

6. If the controller is not in use after start up, it will enter sleep/power saving mode, press any button on the controller to reactivate.

F. System Parameters Setting

Some parameters in this system, e.g. pull force compensation, display information & etc, can be adjusted based on user's requirement.

1. Access to system parameters setting

During the start up or initial powering up of the system, press and hold the “time +” button until manual setting mode appears on the controller's screen, then press the “intermittent –” button to access, the screen will appear as follows (To avoid unintentional access, the system is programmed in such a way that access to the system parameters setting can only be done during the initial powering up of the system).

Intermittent.	Xxx s
Display	info/Force
Protection	X(A-H)
Compensation	On/Off

Intermittent time: The duration between release and traction/pull during auto mode, time range between 5 – 600 seconds, press “pull” button or “release” button to increase or decrease the intermittent time. Press once to increase or decrease by 5 seconds.

Display: Info/Force Press “time +” button to change display to force mode, and press “time –” button to change display to information mode. If the display is on force mode, when the lumbar traction bed is in operation, the bottom of the screen will permanently show its current pull force information. When the display is on information mode, the screen will intermittently showing the operating information based on the on-going operation.

Protection: this is the electronic parameters monitoring and protection system. Press “time +” button or “time –” button to set different protection class. (Normally no adjustment is needed to avoid over protection).

Compensation: during auto mode, if the current pull force is 3kg less than the maximum pull force, force compensation function will be activated where the pulling motion will be reinforced (i.e. the sliding bed force will continue to pull further), press “intermittent +” button to switch on the compensation function, or press “intermittent –” to switch off.

2. To exit system parameters setting

After parameters have been set accordingly, to save the parameters please press the “auto mode” button, if you do not wish to save the setting then please press “ emergency pause” button to exit.

G.Security and protection

1. Pull force protection: This lumbar traction bed comes with pull force protection function. Once the maximum pull or traction force is set, when it reaches the maximum force, the system will stop the pulling motion.
2. Electronic Protection system: The lumbar traction bed has built in electronic parameters monitoring and protection system. The electronic parameters will be monitored during operation, once there is mismatched of system parameters and actual pull force, the system will automatically be suspended; if it is under auto mode, the system will automatically exit from auto mode. (Electronic protection rating can be set at the system parameters setting).
3. Anti-trap protection: To prevent the sliding bed board from trapping any object in between bed boards, this lumbar traction bed provides initial sliding bed board resetting anti-trap function as well as anti-trap function during operation. Initial anti-trap function is applicable when the sliding bed board did not retract after the previous operation, during the subsequent start up when the sliding board retract to its original position, if the force exert during retracting is more than 6kg, the traction bed will stop functioning.

There are 3 classes of anti-trap protection during operation. Class 1 protection is when the sliding bed board is approx. 4.5cm from the original position, any retraction force of more than 6kg will suspend the operation; Class 2 is when the sliding bed board is approx. 6.5cm from its original position, and retraction force is more than 12kg; Class 3 is when sliding bed board is approx. 10 cm away from its original position, and retraction force is more than 30kg. (The distance stated is only for reference, it may differ according to the actual distance between the installed sliding bed board and stationary bed board.)

A.Troubleshooting

Problem	Cause	Solution
Power indicator light is not lit, no screen display and no sound during start up.	Power socket not working.	Check power socket.
	Power adapter not working	Check power adapter indication light and the plug.
	Adapter fuse is burnt or not connected well.	Change the fuse or change a new power adapter.
Power indicator light is lit, there is sound during start up but no screen display; continuous buzzing sound.	Controller not functioning	Check whether wire connection to the controller is in order.
	Controller malfunction.	Change a new controller.
The system parameters display screen is shown during start up.	There is a button being hold down.	Check whether any button is being unintentionally pressed.
	Controller malfunction.	Change a new controller.

Program displayed is normal but no pulling motion.	Maximum pull force set too low.	Increase the pull force.
	Motor reached its maximum range.	Press release button to retract and try again
	The pull button on the controller is damaged.	Change or repair the controller.
The pulling force is too small	Maximum force set too low.	Increase pull force.
	Traction belt is not tied properly.	Put on the traction belt again.
Abnormal noise	Loose fastener or malfunction of sliding bed board bearing.	Switch off traction bed to check. Tighten any loose screw or change the bearing.
Traction is frequently suspended by the electronic protection system.	Electronic protection setting is inappropriate.	Change the electronic protection setting.
	Traction sensor malfunction.	Change the traction sensor.

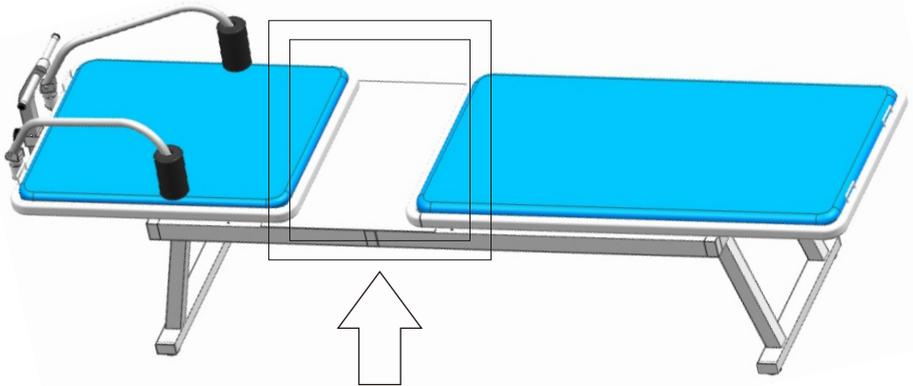
Note: If the above troubleshooting fails to solve the problem , please kindly contact our customer service personnel.

I. Contraindications

1. Pregnant women, patients with serious heart problem, osteoporosis, and hypertensive patients are not allowed to use the traction bed.
2. Not suitable for patients with spinal suppurative inflammation, spinal tuberculosis, spinal tumors or other similar spinal problems.
3. Not suitable for patients with serious heart , lung, liver, kidney and brain related diseases.
4. Please use as per doctor's advice.

J. Safety Warning

Do not place any obstacle or hand in between the sliding area during operation to prevent any mishap during retraction of the sliding bed board. Users are advised to wear well fitted clothes and take out all items, e.g. mobile phone, keys and etc. from pockets to prevent these items from falling into the sliding area. After usage, please switch off the power supply. If the lumbar traction bed is not in use for a long period, please kindly keep the controller away and prevent any children from playing with the traction bed. Always be careful!



Do not put any obstacle in between.
Do not place your hand at this area during operation.

K. Precautions

1. Non user is not allowed to operate the traction bed. And, please switch off the power supply after each usage.
2. Do not expose the lumbar traction bed to the sun; do not place it at moist, damp and corrosive environment.
3. For first time user , do not set the pull force too high (recommended to be not more than 50kg) , then gradually adjust based on own body condition. If any discomfort is felt, immediately press the emergency pause button to stop.
4. If the controller is disconnected in the midst of operation, operation will immediately be suspended.

L. Packing list

Item	Qty
Electric Lumbar Traction bed	1 set
Traction belt	1 set
Controller	1 unit
Power adapter	1 unit
Manual	1 copy