

Raphael 707

(Premium Chiropractic Table)

01 Outlook 01

02 Safety Information 02 ~ 04

01. Safety Sign	05. Environment Condition
02. Caution and Warning	06. Packing and Transportation
03. Prohibition	07. Waste Disposal
04. Necessary Performance	

03 Product Information 05 ~ 09

01. Specifications	04. Main parts
02. Appearance	05. Indication Label
03. Components(Parts)	

04 How To Use 10 ~ 20

01. Power On	05. Length Adjustment
02. How to Use Roll Paper	06. Drop Intensity Adjustment
03. Elevation	07. Emergency Button
04. Seat Angle Adjustment	Emergency Hand Switch
	08. Touch Screen

05 Maintenance 21

01. Check and Inspection	03. Washing and Sterilization
02. Repair and Replacement	04. Technical Support





Outlook

Name	Orthopedic Adjustment Equipment
Model	R707 - K
Purpose of use	Adjust human body to correct and right position
Permission No.	18-4785
Characteristics	<p>This equipment is to correct human body into a normal position and has 5 different mattresses(cervical, lumbar, pelvic, ankle, armrest) with touch screen to control operation, switches, levers, etc. Main functions like elevation, drops, traction, flexion can be controlled by touch screen. With foot switch (*option), elevation and cocking can be controlled. Also, safety function like emergency stop and 'back to the original position' are adopted for patient's protection.</p>



Safety Information

Safety Sign

Sign	Explanation
	Caution : Can be causes of light electric shock, damage, malfunction.
	Refer to the Instruction Manual : Offer additional information in the enclosed document (recommended)
	Refer to the Instruction Manual : Accomplish offered information in the enclosed document (safety signal)
	Electric Protection : B type embedded part



CAUTION

Use after reading the instruction manual well.



CAUTION

Don't allow patient to sit on or lean on the front part and rear part of the equipment.



CAUTION

Explain fully to patient regarding instant noise when dropping and cocking.



CAUTION

When patient or equipment has problem or malfunction, stop immediately the equipment and make adequate measures.

It can be used by patients over 100 kg for up to 2 min and should be reused after 18 min of rest.



CAUTION

Only experienced professional must use the equipment operation under doctor's prescription and supervision.



CAUTION

Do not remodel the equipment randomly.

Safety Information

Caution and Warning



CAUTION

Be careful next requirements after use

- Unplug when you don't use the equipment for a long time.
- Make adequate check and ask repair technician (manufacturer) when malfunction occurs.



CAUTION

Be careful next requirements when install the equipment.

- Install when you can remove cord easily.
- Install in the waterless area.
- Do not install in the high humidity, high temperature, direct sunlight or dusty area where bad influence doesn't happen.
- Be careful of safety conditions like slope, vibration, shock (including transportation).
- Do not install where chemicals storage place or where gas doesn't occur.
- Be careful of frequency and rated voltage.
- Connect ground connection right.
- Install where interference by other medical device, like electronic wave, doesn't influence.
- Please install and use an automatic voltage regulator during high voltage fluctuation.



CAUTION

Be careful next requirements before use the equipment.

- Check all code connection is exact and safe.
- Be sure the ground connection is fully connected.
- Be fully careful of common use which leads to overcurrent easily and brings danger.
- Be careful where ground is flat, make table level.
- Check emergency button's condition.
(Equipment doesn't operated when it's pressed)
- Please use this table after touching the conductive material, such as a metallic handle part with a head cushion, when static electricity shock in the human body is created.

Safety Information

Prohibition

Prohibit the equipment use next persons or patients.

- ① malignant tumor ② pregnant women ③ fracture, joint problem
- ④ blood pressure problem ⑤ cardiac disorder ⑥ injury
- ⑦ abdomen area when menstruation ⑧ polio patient
- ⑨ heart disease patient ⑩ brain hemorrhage patient

Necessary Performance

There's no necessary performance decided through individual standard, clinical function and risk assessment.

Environment Condition

Temperature Range : (10 ~ 40) °C

Humidity Range : (20 ~ 75) %

Packing and Transportation

We packed this equipment for the most suitable condition to transport. When you move or transport this equipment randomly, it may bring damage to the equipment. When you need to move or transport the equipment, please ask our sales department or the point of purchase.

Waste Disposal

Follow relevant region's disposal rule.

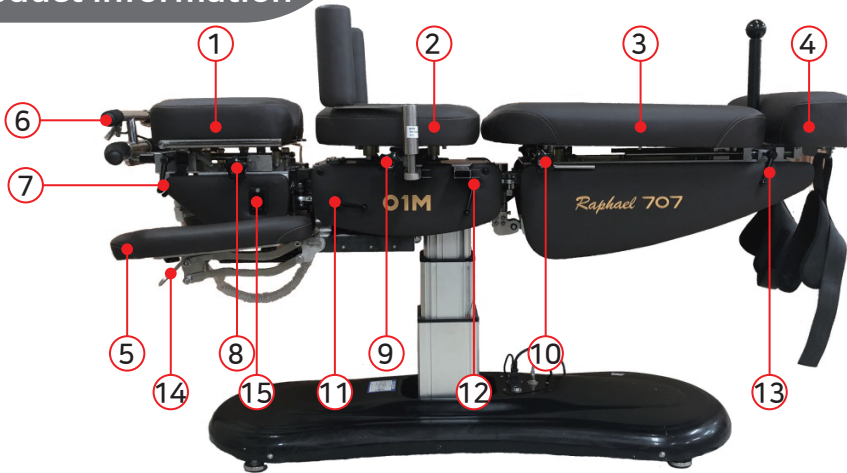
Product Information

SECTION	SPECIFICATIONS	
Size(mm)	length 1,760~2,280mm × width 670mm × height 830~1,130mm(±100mm)	
Rating	220V~, 60Hz, 260VA	
Weight(kg)	approx 135kg	
Max. Permittable Weight(kg)	approx 150kg	
Electric Classification	1	
Embedded Part Type	B type embedded part	
Operation Type	Rest for 10 minutes after Max. 30 Cycles	
IP Environment Code	foot switch(option) : IPX1	
Touch Screen	10inches, 284 x 163 (24VDC, 250mA)	
Software Name and Version	Raphael-707-V1.0	
Angle(°)	cervical mattress	-23.5°(bottom) ~ 17.8°(top) (±5°)
		14°(left) ~ 14°(right) (±5°)
	pelvic mattress	flexion : 0°(top) ~ -22.4°(bottom) (±5°)
		22°(left) ~ 22°(right) (±5°)
Size(mm)	traction	0 ~ 100mm (±20mm)
	cervical handle	0 ~ 240mm (±20mm)
	ankle mattress	0 ~ 280mm (±50mm)
Packing Unit	SET	

※Setting value of flexion and traction is like below

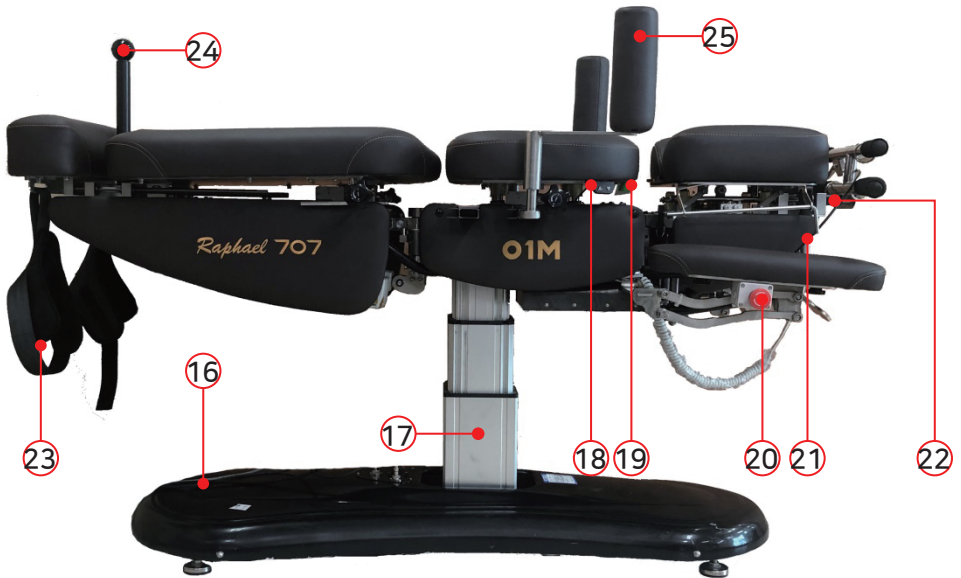
SECTION	STEP 1	STEP 2	STEP 3	STEP 4	STEP 5	STEP 6	STEP 7	STEP 8	STEP 9	STEP 10	STEP 11	STEP 12	STEP 13	STEP 14	STEP 15	STEP 16
FLEXION	2.8°	5.6°	8.3°	11.3°	13.9°	16.7°	19.5°	22.4°	-	-	-	-	-	-	-	-
TRACTION	6.25 mm	12.5 mm	18.8 mm	25 mm	31.3 mm	37.5 mm	37.5 mm	43.8 mm	50 mm	56.3 mm	62.5 mm	68.8 mm	75 mm	87.5 mm	93.8 mm	100 mm

Product Information



No.	Name	Function
01	Cervical Mattress	supports patient's head
02	Lumar Mattress	supports patient's lumbar
03	Pelvic Mattress	supports patient's pelvic
04	Ankle Mattress	supports patient's ankle
05	Armrest Mattress	supports patient's arm
06	Cervical Handle	patient or doctor can grab on
07	length Adjustable Lever (Cervical Handle)	adjusts length of cervical handle
08	Tension Adjustable Knob (Cervical)	a knob which can adjust drop strength of cervical mattress
09	Tension Adjustable Knob (Lumbar)	a knob which can adjust drop strength of lumbar mattress
10	Tension Adjustable Knob (Pelvic)	a knob which can adjust drop strength of pelvic mattress
11	Angle Adjustable Lever (cervical)	a lever which can adjust left-right angle and can fix of cervical mattress
12	Angle Adjustable Lever (Pelvic)	a lever which can adjust left-right angle and can fix of pelvic mattress
13	Length Adjustable Lever (Ankle)	a lever which can adjust length of ankle mattress
14	Height Adjustable Lever (Armrest)	a lever which can adjust height of armrest mattress
15	Height Adjustable Lever (Cervical)	a lever which can adjust height of cervical mattress

Product Information



No.	Name	Function
16	Protection Case	a case which protects frame and interior
17	Column	a motor which adjust table height
18	DP Switch	a switch which can adjust elevation of the table
19	Drop on / off Switch	a switch to turn the drop on and off
20	Emergency Button	a button which patient can cut the power of the table for himself
21	Hand Switch	a switch which patient can make table into the original position
22	Paper Roll Holder	a paper holder that covers the cervical mattress
23	Ankle Belt	a belt which fixes patient's ankle
24	Flexion Rod	a rod which adjusts left and right angle of pelvic mattress
25	Traction Fix Rod (option)	a rod which fixes patient's body when traction

Product Information

Components(Parts)



Touch Screen

Usage
device control

Size
L380 × W470 ×
H870~1.430mm

Weight
11.8kg



Hand Switch

Usage
original positioning
of device

Size
L52 × W89 × H15mm

Weight
50g



Emergency Button

Usage
device power block
and stop

Size
Ø40mm



DP Switch

Usage
device height control

Size
L180 × W140mm



Foot Switch1(option)

Usage
device height control

Size
L180 × W140 × H20mm

Weight
960g



Foot Switch2(option)








Usage
semi-auto
cocking control

Size
L64 × W110 × H35mm

Weight
300g

Product Information

Main Parts

Name	Certification	Rating or Material characteristics
Power Cord		below 450/750V vinyl chloride insulation cable
Power Plug		250V~,10A
Connector		250V~,10A
SMPS		24V 8,4A
Noise Filter		250V~ 6A/40°C, 50/60Hz
Column		24V
Touch Screen		32Bit RISC CPU(ARM926EJ-S Core) - 400MHz

Indication Label

O1M 영일엠

Product Name : Orthopedic table
Model Number : R707-K
SN : R707-K220607 ☎ : 06-24-22

Voltage : 220/230 V, 50/60 Hz
Power Consumption : 400 VA
Safe Working Load : 150 Kg

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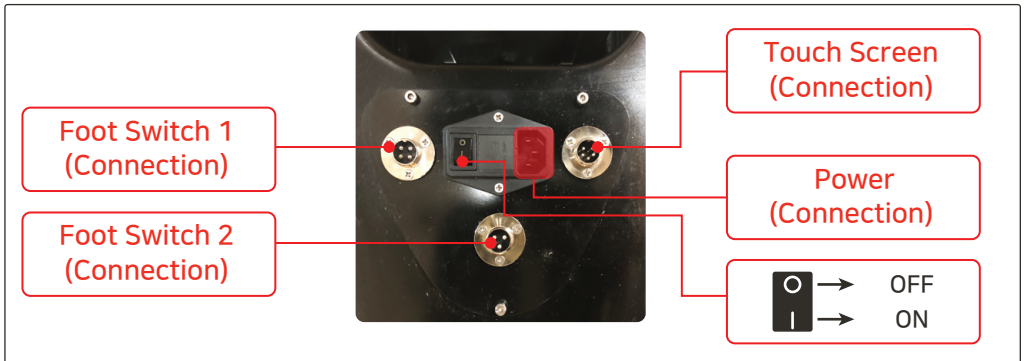






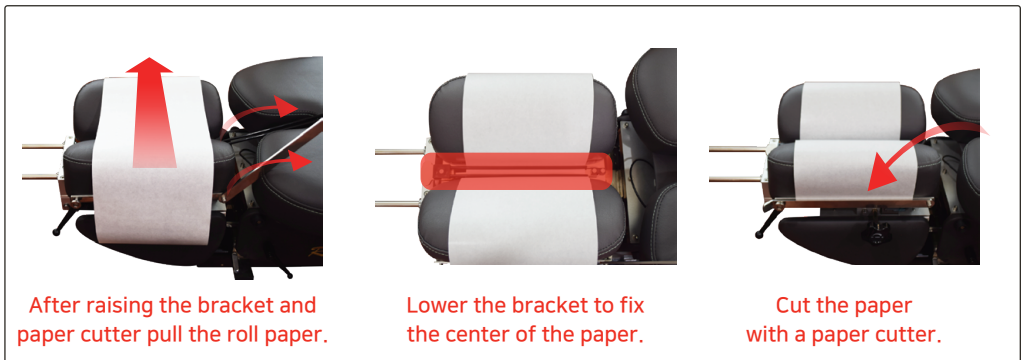

1 Power On

- Connect power cord with 220V Socket.
- Check cable connection of power cord, touch screen cord and foot switch(option) on the center of base part.
- Turn on Power.



2 Roll Paper Set-Up

1. Pull the edge of roll paper.
2. Fix roll paper with bracket among cervical mattress.
3. Cut roll paper with embedded cutter and fix it simultaneously.

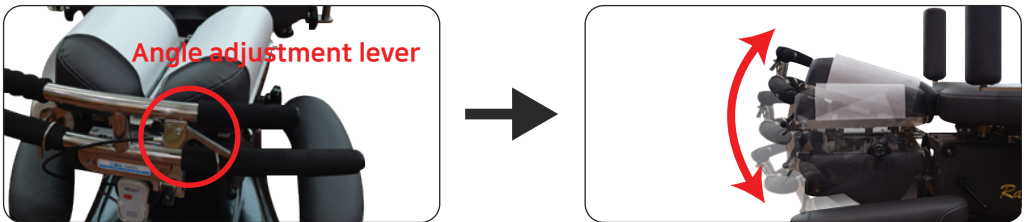


3 Elevation

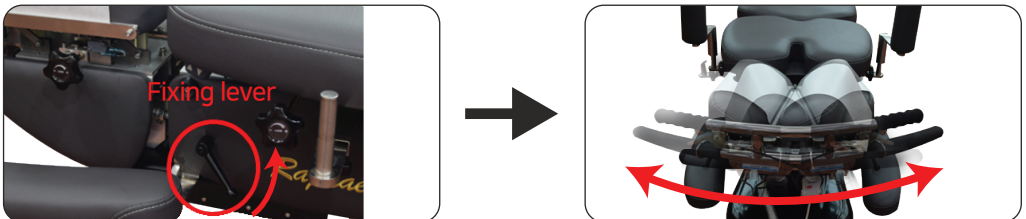
- Adjust convenient height for doctor's adequate treatment with DP switch and foot switch. (option)
- Refer to the article "14.How to set each touch screen function" when you adjust elevation with touch screen.



4 Mattress Angle Adjustment



- Pulling angle adjustment lever for cervical mattress, adjust up and down angle and then release lever.



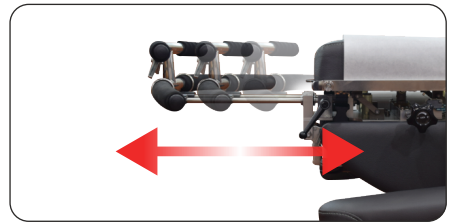
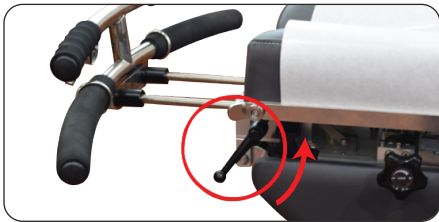
- Release a lever under cervical mattress, adjust left and right angle and then rotate lever towards the head side to fix.

4 Mattress Angle Adjustment

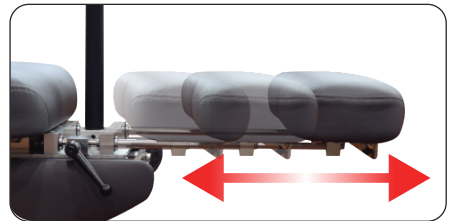
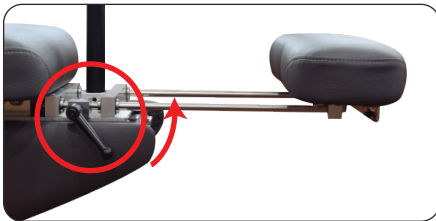


- Turn lever towards the foot side to release, adjust left and right angle lean then rotate lever towards head.

5 Length Adjustment



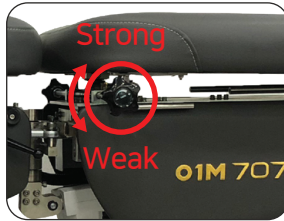
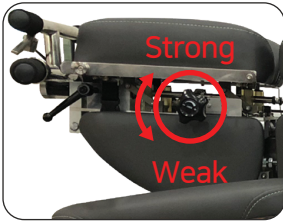
- Turn the lever under cervical mattress towards the foot side to release, adjust handle length and then turn the lever towards the head side.



- Turn the lever between pelvic mattress and ankle mattress towards the foot side to release, adjust ankle mattress and then turn the lever towards the head to fix.

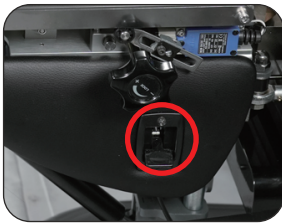
How to Use

6 Drop intensity adjustment



- Adjust drop tension with knobs.

7 Mattress Height Adjustment



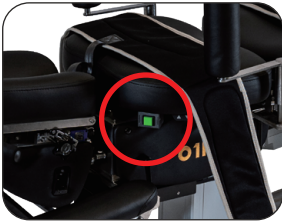
- Up height lever for cervical mattress, adjust up and down height and then down lever.



- Pulling height adjustment lever for armrest mattress, adjust up and down height and then release lever.

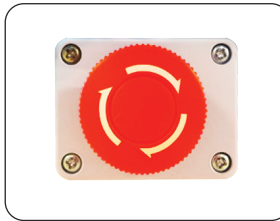
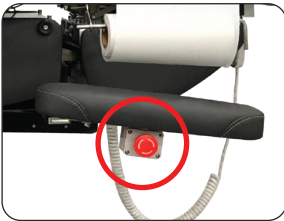
How to Use

8 Drop On&off Switch



- When the button is pressed, the drop function is turned on, Press the button again to turn off the drop function.

9 Emergency Button / Emergency Hand Switch



- Push the emergency button to block power and to stop device operation. After using, turn the button to the arrow direction to clear power block.
- When you push the emergency hand switch, the traction and flexion operation becomes to the original position.

How to Use

8 Touch Screen

- When you touch the 'PLAY' icon in the initial screen, it turns to control screen.



(Initial Screen)



(Control Screen)

9 Touch Screen Function Explanation

Traction Setting (Display)

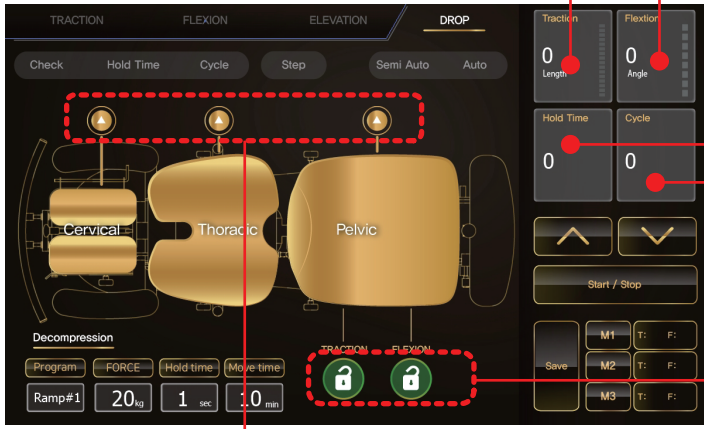
Traction Setting (Display)

Hold 'Timer' (Display)








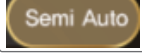





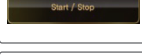


Cycle Setting (Display)

Hold Move Setting



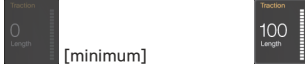





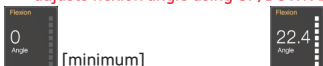







Mattress (Display)



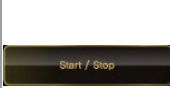













9 Touch Screen Function explanation

NO.	Button	Function	Explanation
01		TRACTION	a pelvic mattress moves to pull patient's body in a certain interval
02		FLEXION	pelvic mattress moves up and down
03		Hold Move	hold either traction or flexion function
04		Hold Time	maintain set-up time when traction and flexion operated
05		Cycle	set the operation cycle
06		ELEVATION	adjust device height
07		Check	check traction and flexion step to set up adequate length and angle of mattress
08		Semi Auto	set up dropped mattress with semi-auto cocking (operated with extra foot switch)
09		Save	memorizes steps and cycles of device operation
10		Step	length extension from minimum stage to maximum stage one by one
11		Cervical Mattress Cocking	activates cervical mattress cocking
12		Thoracic Mattress Cocking	activates lumbar mattress cocking
13		Pelvic Mattress Cocking	activates pelvic mattress cocking
14		Start / Stop	control device operation
15		UP/DOWN	controls operation cycles, fixation mode select, height adjustment and set steps
16		Save & Import	save and import of set-up function button when you're using memory function

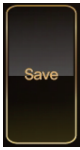
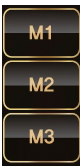

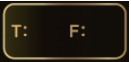



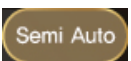

9 Touch Screen Function explanation

NO.	Function	Explanation
1	 [selected button]	activates traction
	 [step setting]	adjusts traction length using UP/DOWN button  [minimum] [maximum-16 steps]
	 [Start/Stop]	operates device using start/stop button. 
	※Refer to following set-up methods for traction's additional functions. 	
2	 [selected button]	activates flexion
	 [step setting]	adjusts flexion angle using UP/DOWN button  [minimum] [maximum-8 steps]
	 [Start/Stop]	operates device using start/stop button 
	※Refer to following set-up methods for flexion's additional functions. 	
3	 [selected button]	activates elevation
	 [height adjustment]	  [DP Switch] Adjusts height using UP/DOWN button.
	※Operating stops when you touch UP/DOWN button. ※Additional height adjustment can be controlled with DP Switch embedded with lumbar mattress.	



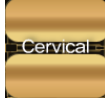















9 Touch Screen Function explanation

NO.	Function		Explanation
4	start stop	 [start/stop]	start/stop button to operate device. When you push button, functions will be started. When you push one more, then device stops.
5	Hold mode	 [selected button]	activates hold function
		 [function setting]	using UP/DOWN button, you can select either traction of flexion hold. <hr/>  [traction hold]  [flexion hold]
			※traction fix setting : only flexion operates ※flexion fix setting : only traction operates
6	Hold Time	 [selected button]	activates hold
		 [time setting]	maintain holding time using UP/DOWN button (unit : sec) <hr/>  [min. sec.]  [max. sec.]
			※device function moves to the set stage stops for a certain time of setting and then operates again
7	Operation Cycle	 [selected button]	activates cycle
		 [cycle setting]	sets cycles using UP/DOWN button (unit : cycle) <hr/>  [min.]  [max.]
8	Check	 [selected button]	activates check function ※move to traction, flexion setting steps and stops

9 Touch Screen Function explanation

NO.	Function		Explanation
9	Memory	 [selected button]	activates memory function
		 [save]	After setting by functions, save setting value among M1, M2, M3 button 
		 [display]	The saved settings are displayed. *It is displayed in steps.
10	Step	 [selected button]	activates step function
		 [selected button]	activates counter button, uses UP/DOWN button to adjust traction steps and cycles  [setting]
only for traction function, length extends by one step from minimum to maximum steps			
11	Cocking Method Select	 [selected button]	touch 'Semi Auto' button to select cocking method (auto/semi-auto)  [activated] [de-activated]
※ activated : can cock dropped mattress by semi-auto using foot switch for cocking. ※ de-activated : can cock automatically the dropped mattress.			

9 Touch Screen Function explanation

NO.	Function	Explanation
12	<p data-bbox="165 835 301 877">Cocking</p>  <p data-bbox="336 546 469 579">[cervical]</p>	<p data-bbox="524 269 1024 365">when button is activated, then you can cock mattress by auto/semi-auto. you can also check mattress position with displayed icon.</p> <div data-bbox="506 381 1094 670">  [de-activated]  [activated]  </div> <div data-bbox="506 579 1094 670">   <p data-bbox="900 588 1094 645">cervical mattress cocked position</p> </div>
	 <p data-bbox="336 951 475 984">[Thoracic]</p>	<p data-bbox="524 698 1024 794">when button is activated, then you can cock mattress by auto/semi-auto. you can also check mattress position with displayed icon.</p> <div data-bbox="506 811 1094 1100">  [de-activated]  [activated]  </div> <div data-bbox="506 976 1094 1100">   <p data-bbox="900 1017 1094 1075">Thoracic mattress cocked position</p> </div>
	 <p data-bbox="336 1389 457 1422">[pelvic]</p>	<p data-bbox="524 1128 1024 1224">when button is activated, then you can cock mattress by auto/semi-auto. you can also check mattress position with displayed icon.</p> <div data-bbox="506 1240 1094 1529">  [de-activated]  [activated]  </div> <div data-bbox="506 1389 1094 1529">   <p data-bbox="912 1447 1094 1504">pelvic mattress cocked position</p> </div>

Maintenance

Check and Inspection

Check and inspect the device following standards for safe usage and patient protection.

Check List	Check Contents	Cycle
Cable Connection	check the cable is connected normally	once/day
Emergency Button	check the emergency button status (pushed or not pushed) device doesn't operated when emergency button is pushed	once/day
Part Drop	part loss or drop around device	once/week
Outlook	check overall device outlook	once/month
Touch Screen	check individual button's function	once/month
	check all button's function	once/month
Tension Adjustment	check tension strong/weak adjustment and quality	once/month

※Please ask solution to purchasing depot or manufacturer's sales department when malfunction occurs.

Repair and Replacement

- We don't have any parts for customers or users can repair by himself of R707-P table. Only service staff or authorized company(or person) can repair it.
- When power cable has got damaged, remove it to prevent danger like electric shock and fire. And replace with a new cable with same specifications.
- Our company doesn't have responsibilities the risk of replacing cable with unmatched specification. We recommend to replace with new cable from our company.

Washing and Sterilization

- Clean with soft fabric. Wipe smoothly.
- Washing liquid is prohibited for the safety of device, patient and user. But only in inevitable occasion, a little water on the fabric can be used to clean except for power part.

Technical Support

- Please ask purchasing depot or manufacturer for technical support and information.

Raphael 707

SERVICE CENTER

Office Hours : 9:00 am ~ 7:00 pm UTC/GMT +9
(Monday through Friday)

Global Sales

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