Service Manua

Massage Lounger

## Model No. EP-MA05

Destination : Taiwan

### \land WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

#### IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  $\triangle$  in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

•The specifications and the parts of this product are subject to change without notice for performance improvement or other purposes.

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### **1** Specifications

關於	電源	AC 110V 60 Hz
額定功率		70 W
	揉捏寬度	122 mm - 47 mm
按摩	移動距離	86 cm
按摩範圍	按摩速度	揉捏寬度31±10 % 次/分鐘 拍打700±10 % 次/分鐘 移動距離:3±10 % cm/秒
自動	關閉	最多15分鐘後自動關閉
尺 寸	不傾斜時(長× 寬 × 高)	約 117 cm $ imes$ 68 cm $ imes$ 106 cm
寸	傾斜時(長× 寬 × 高)	約 132 cm $ imes$ 68 cm $ imes$ 100 cm
重量		約 43 kg
包裝	箱尺寸(長× 寬 × 高)	約 146 cm $ imes$ 76 cm $ imes$ 96 cm
重量(含包裝箱)		約 53 kg
布料		人造皮革
藍牙	版本	藍牙5.0

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對於體重大於等於 100 kg 的人,產品操作可能會產生更多噪音,布料可能會磨損更快。



### 2 Part names and functions of main unit



Operation introduction









### 按摩輪不在收納位置時

按兩次控制器面板上的 (2),將其轉回
 收納位置。



### 4 Operation panel instructions

## 選擇功能表並開始按摩



**1** の 待機模式

- 打開電源後, (U) 指示燈開始閃爍(約30)
  - 秒),等待運作。30 秒後, の 指示燈停止
  - 閃爍(為不影響使用者休息)。
- 按 🙂 開機

指示燈持續亮起(設定模式時間為 15 分 鐘),按摩椅的靠背自動傾斜到設定的角度 (非最低位置)。 注意)

15 分鐘後模式停止,按摩椅靠背不會自動 復位(為不影響使用者休息)。

● 按 🙂 關機

指示燈開始閃爍,按摩椅靠背復位到椅子狀 態。

(注意)

15 分鐘後模式停止,切換模式將不會重新 計時。

選擇按摩模式

從「自動按摩」模式和「手動按摩」模式中選 擇一個,然後按下。

◎動 自動模式

有 3 個模式可供選擇,可根據預設的按摩模式 從肩部到臀部進行按摩。

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爭動手動模式
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客戶可根據需要設定按摩手法和按摩部位。

使用前,請務必閱讀 主機體背面的警告標籤 டு  $\bigcirc$ 自動 手動 零重力 Ż 全身 ♠ ↓ 定點 **Panasonic** EP-MA05

## 「自動按摩」 模式

按下 💷 進入「自動按摩」模式

- (1) 自動預設有三個按摩模式,可以循環切換。
- 按摩模式(一):
  紅色指示燈將亮起。揉撫放鬆按摩模式。
- 按摩模式(二):
  藍色指示燈將亮起。活絡舒暢按摩模式。
- 按摩模式(三):
  紫色指示燈將亮起。緩和酸痛按摩模式。

### 模式內容

揉撫放鬆

 ●想消除全身疲勞時,可通過揉捏、輕拍的方式, 從肩部到臀部進行舒適、輕柔的按摩,對小腿進 行輕柔、有力的擠壓、揉捏,達到全身放鬆。

#### 活絡舒暢

● 當你想舒緩肩部和腰部的僵硬時,主要按摩揉 背,按摩輪慢速移動,可以疏通經絡,放鬆身 體。

#### 緩和酸痛

 為了舒緩腰部和臀部的酸痛和疲勞,可以通過輕 拍和揉搓來更好地放鬆腰部和臀部,同時通過小 腿部氣囊的擠壓和揉搓來徹底舒緩酸痛。

「手動按摩」 模式 使用前,請務必閱讀 主機體背面的警告標籤 ധ  $\bigcirc$ 自動 手動 Ż 零重力 ♠ 全身 T 定點 **Panasonic** EP-MA05

按下 💷 進入「手動按摩」模式 從全身或定點中選擇一個按摩模式 全身預設有三個按摩模式,可以按 手動循環切換,由肩膀到臀部放鬆全身。 ● 按摩模式(一): 紅色指示燈將亮起。主要是揉捏模式。 ● 按摩模式(二): 藍色指示燈將亮起。主要是拍打模式。 ● 按摩模式(三): 紫色指示燈將亮起。主要是揉捏和拍打模式。 □ 定點按座 」模式可以選擇需要按摩的部位,長

按↑或↓上下調整。

## 根據你最喜歡的動作設定



按下(\*\*\*)零重力按摩椅會自動傾斜到水平位置。

● 將身體傾斜到最佳角度進行「零重力按摩」, 使全 身受力平均,無明顯受力點。此時,身體其他部位 可以得到更好的放鬆,這將有助於釋放壓力和疲 勞,也可以達到更好的按摩效果。

按下(→)進入「匀速搖擺」模式。

● 通過自然放鬆的「匀速搖擺」按摩,身體得到充分 的伸展,從而活動身體的各個部位。

「音樂播放說明

按摩椅內置藍牙接收裝置,可與藍牙手機、平板電腦等 設備連接播放音樂,讓您在盡情按摩的同時享受音樂。

為確保藍牙連接的安全性,密碼應按以下方式輸入。 藍牙 ID: EP-MA05-XXXXXX 藍牙密碼:2105

### Fault Code (indicated by flashing lights), Fault Diagnosis 5 and Parameters of Each Component

#### **Fault Indication and Diagnosis** 5.1.

Fault code		Handling
The indicator light on the controller panel is on	Enter the maintenance mode to observe which function fails to respond	Replace faulted parts and components

\* The method of entering the maintenance mode is as follows:

Press and hold 💿 for about 4s, and then press (Focus) three times to enter the maintenance mode.

#### **Resistance and Voltage Values of Each Component** 5.2.

S/N	Name of components	Resistance value	Voltage value
1	Relay line connecting switching power board and master substrate	Input DC24V	
2	Relay line connecting switching power board and master substrate	e -	Input DC5V
3	Upper and lower limits	-	-
4	Controller	-	-
5	Solenoid valve	About 167Ω	
6	Lifting motor	-	
7	Up-down motor	About 8Ω	Output voltage DC24V
8	Tapping motor		
9	Kneading motor	About 5Ω	
10	Air pump	About 47Ω	
11	Connection of power relay line (large) and master substrate	-	Input DC24V
12	Connection of power relay line (small) and master substrate	-	Input DC5V
13	Power input		Input AC220V
14	Speaker	About 3.5Ω	-
15	Bluetooth module input end	-	Input DC5V
16	Relay line connecting main control board and Bluetooth module	-	Output DC5V
17	Heater (installed but nonfunctional)	-	-

#### 5.3. **Positions of Connectors**



## 6 Technical Description

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6.1. Schematic Diagram of Air Tube Connection



### 6.2. Schematic Diagram of Circuit Board Connection



7 Assembly and Disassembly Instructions

- 7.1. Removing the pillow, back cushion and cloth cover on the back
- 7.1.1. Uncover the cloth cover and remove the zipper to take off the pillow.



7.1.2. Uncover the leather sheath, remove 4 zippers and the back cushion to finally remove the cloth cover in the back.

\*Caution: The interlayer on the reverse side of back cushion can also be removed as shown in the figure.



7.1.3. Uncover the leather sheath, remove 4 zippers and the back cushion to finally remove the cloth cover in the back.



- 7.2. Removing the rear cover
- 7.2.1. Remove the two screws at the bottom and force apart 4 clips to remove the back cover.



### 7.3. Removing the outer elbow (left/ right)

7.3.1. Plug a crowbar in the position shown in the figure to pry out a clip to the side, and then force apart the remaining 9 clips in turn with hands to remove the outer armrest.

\*Caution: The prying bar is pressed against the sewing line during the prying, and the same disassembly methods are adopted on the left and right.



- 7.4. Removing the shoulder top (left/right)
- 7.4.1. Remove 2 screws connecting the top of the shoulder top to remove the decorative parts. And remove two screws below.



# 7.4.2. Remove 4 screws fixing the shoulder top and lift it up to remove the shoulder top.

 $\ensuremath{\mathfrak{K}}$  The same disassembly methods are adopted on the left and right.



7.5. Removing the inner armrest (left/right)

### 7.5.1. Remove 3 screws fixing the hood pressing plate, and then remove 6 screws fixing the armrest to remove the armrest.

X Caution: After the right armrest screw is removed, the air tube connected to the solenoid valve needs to be pulled out before the armrest can be removed. The same disassembly methods are adopted on the left and right for other parts.









7.6. Removing the massage unit

## 7.6.1. Cut off 4 cable ties to remove the core wire sheltering cloth.

 $\ensuremath{\mathfrak{K}}$  The same disassembly methods are adopted on the left and right.



7.6.2. Remove 2 screws, remove the terminal cover, and cut off 1 cable tie fixing the power trunk.



7.6.3. Remove the 4 screws shown in the figure, take off the rail baffle, and turn on the manual mode to lower the massage unit to the position fixing the rail baffle, so as to remove the massage unit from the rail.

% Caution: The massage unit needs to be hold with one hand when descending to prevent it from falling down.



7.6.4. After its removal from the frame, the massage unit can be removed as a whole by cutting off 3 cable ties fixing the connectors and unplugging 3 connectors connected.



## 7.7. Removing the power box cover and power outlet

Remove 2 screws, remove the electronic control box cover and 2 connectors, remove the power box cover, and finally remove 2 screws on the electronic control box cover to separate.



### 7.8. Removing the lifting motor

Lift the foot massage and fall the chair down, cut off three cable ties (as shown in the square box), remove two fixed pins (as shown in the circle), and remove the connector to remove the motor.



## 7.9. Removing the foot massage, leg cloth cover and leg air bag

## 7.9.1. Removing the foot massage section

After implementing the method of disassembling the internal armrest as per 7.5.1, remove the fixed pins of the foot massage on the left and right to remove the foot massage section.



## 7.9.2. Removing the foot massage cloth cover

Pull off the concealed zipper to remove the cloth cover. % Caution: After removal of the cloth cover, the cloth cover of the leg can also be disassembled by removing the zipper twice only.



### 7.9.3. Removing the leg air bag

Remove 10 screws, remove the lower cover of lower leg, remove 8 screws from the welding assembly of the leg iron frame, cut off 12 cable ties, and finally pull out 5 air tube connections to remove the air bag.



### 7.10. Removing the air pump, solenoid valve, sound, limit switch, hand controller and handset box

#### 7.10.1. Removing the air pump

Implement it after using the elbow disassembly method as per 7.3.1.

Remove the 3 screws as shown in the figure, remove the air pump cover, finally remove 4 screws, and unplug the connector to remove the air pump.



### 7.10.2. Removing the solenoid valve

Implement it after using the elbow disassembly method as per 7.3.1.

Remove the 4 screws as shown in the figure, remove the air pump cover, finally remove the 4 screws, unplug the connector and air tube to remove the solenoid valve.



### 7.10.3. Removing the speaker

Implement it after using the elbow disassembly method as per 7.3.1.

Unplug the connector and remove the 4 screws as shown in the figure to remove the speaker. (The same disassembly methods are adopted on the left and right.)



### 7.10.4. Removing the limit switch

Implement it after using the disassembly methods as per 7.3.1 and 7.5.

Remove the screws at rear side of backrest and screws fixing the harness as shown in the figure, and then 2 screws at the bottom of the backrest frame to remove the limit switch.



### 7.10.5. Removing the hand controller

Implement it after using the elbow disassembly method as per 7.3.1.

Remove the 2 screws as shown in the figure, the hand controller, and 5 screws on the P board to separate it.



### 7.10.6. Removing the handset box

Implement it after using the elbow disassembly method as per 7.3.1.

Remove the 2 screws as shown in the figure to remove the handset box.



## 7.11. Removing and dissembling the backrest and its cloth cover

### 7.11.1. Removing the backrest cloth cover

Implement it after using the disassembly methods as per 7.1-7.5 and 7.10.

Remove the 4 screws as shown in the figure to remove the backrest cloth cover. (The same disassembly methods are adopted on the left and right.)



### 7.11.2. Removing the backrest

Implement it after using the disassembly methods as per 7.1-7.5, 7.10 and 7.12.1.

Remove 10 screws each on the left and right as shown in the figure to remove the backrest cloth cover. (The same disassembly methods are adopted on the left and right.)



#### 7.11.3. Removing the back support

Implement it after using the disassembly methods as per 7.1-7.5, 7.9, 7.10, 7.12.1 and 7.12.2.

Remove the 2 screws as shown in the figure to remove the backrest cloth cover. (The same disassembly methods are adopted on the left and right.)

### 7.11.5. Removing the rack

Implement it after using the disassembly methods as per 7.1-7.5, 7.9, 7.10, 7.12.1, 7.12.2, 7.12.3 and 7.12.4. Remove 13 screws each on the left and right as shown in the figure to remove the rack.



## 7.11.4. Removing the iron frame welding (assembly) on the back

Implement it after using the disassembly methods as per 7.1-7.5, 7.9, 7.10, 7.12.1, 7.12.2 and 7.12.3.

Remove the 8 screws each on the left and right as shown in the figure to separate from the plastic bracket.





### 7.11.6. Removing the base

Implement it after using the disassembly methods as per 7.1-7.5, 7.9, 7.10, 7.12.1 and 7.12.2.

Remove the 6 screws as shown in the figure and 4 substrates to remove the base.



## 8 Exploded View and Replacement Parts List

### 8.1. Exploded View



### 8.2. Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	1		BEDFRAME	1	
	2	WEPMA05W3188	FOOT PAD	4	
	3	WEPMA05K3188	CASTER	2	
	4	WEPMA05B6048	REAR BUFFLE A	1	
	5	WEPMA05B3128	REAR H FRAME IRON FRAME ASSEMBLY	1	
	6	WEPMA05B6088	REAR BUFFLE B	1	
	7	WEPMA05B0668	PUTTER	1	
	8	WEPMA05L6098	FRONT H FRAME WELDING ASSEMBLY	1	
	9	WEPMA05B0468	FRONT BEZEL	1	
	-	WEPMA05B0578	LOWER LID	1	
			ELECTRIC CONTROL BOX UPPER COVER (TAIWAN)	1	
	12	WEPMA05L2908	THREE IN ONE POWER SOCKET	1	
	13	WEPMA05B4438	MAIN IRON FRAME WELDING ASSEMBLY	1	
	14	WEPMA05A0038	LEFT INNER PANEL WHITE	1	
	14	WEPMA05G0038	LEFT INNER PANEL GREEN	1	
		WEPMA05B2928		10	
			SNAP		
		WEPMA05B0478		10	
	17	WEPMA05A6038	LOWER LEFT OUTER PANEL BLUE	1	
	17	WEPMA05G6038	LOWER LEFT OUTER PANEL GREEN	1	
	18	WEPMA81L0188	BRAND LOGO	1	
		WEPMA05A0608	UPPER LEFT OUTER PANEL BLUE	1	
		WEPMA05G0608	UPPER LEFT OUTER PANEL GREEN	1	
		WEPMA05L0028	INSTALL SHEET METAL BEHIND THE SIDE PANEL	4	
		WEPMA05L2988	SNAP FEMAL SHEET	4	
	22	WEPMA05L6148	LEFT UPPER SIDE PLATE SUPPORT FRAME	2	
	23	WEPMA05L3188	HORN	1	
	25	WEPMA05B3428	PHONE SLOT	1	
	26	WEPMA05L3178	MOBILE PHONE CHARGING ADAPTOR BOARD	1	
	27	WEPMA05L3038	BACKREST	1	
	28	WEPMA05L3218	LOCKING PIECE	1	
	29	WEPMA05A3218	HOOD PRESSURE PLATE WHITE	1	
		WEPMA05G3218	HOOD PRESSURE PLATE GREEN	1	
		WEPMA05B6078	ROHS LIMIT SWITCH	2	
		WEPMA05B1218	BACK FRAME COMPONENTS	1	
			SPLINE	2	
			MOVEMENT PRESSING LEFT	1	
			MOVEMENT PRESSING RIGHT	1	
			MOVEMENT COMPONENTS	1	
			SEAT FRONT COVER ASSEMBLY	1	
				1	
				1	
				1	
				1	
				1	
			HAND CONTROL CIRCUIT BOARD	1	
			BUTTON	1	
			HAND CONTROL SHELL	1	
	45	WEPMA05L1288	VENEER TAIWAN	1	
	46	WEPMA05L0418	ONE SOLENOID VALVE	1	
	47	WEPMA05L0118	AIR PUMP BOX COVER	1	
	48	WEPMA05L0428	AIR PUMP	1	
	49	WEPMA05A0928	RIGHT INNER PANEL BLUE	1	
		WEPMA05G0928	RIGHT INNER PANEL GREEN	1	
			UPPER RIGHT OUTER PANEL BLUE	1	
			UPPER RIGHT OUTER PANEL GREEN	1	
			LOWER RIGHT OUTER PANEL BLUE	1	
			LOWER RIGHT OUTER PANEL GREEN	1	

		Part No.	Part Name & Description	Qty	Remarks
1 1	No. 52	WEPMA05L6018	REAR COVER	1	
		WEPMA05L6318	MAIN CONTROL BOARD	1	
		WEPMA05L6338	BLUETOOTH BOARD	1	
		WEPMA05B3188	SWITCHING POWER SUPPLY BOARD SMALL	1	
		WEPMA05B3108	SWITCHING POWER SUPPLY BOARD LARGE		24V/3A105*70*1.6
Â			BACK FRAME HARNESS	1	
Δ			MOVEMENT CONNECTION LINE	1	
	-	WEPMA05A3158	BACK COVER LEATHER CASE BLUE	1	
	-	WEPMA05G3158	BACK COVER LEATHER CASE GREEN	1	
	-	WEPMA05B3048	MOVEMENT WIRE SHIELDING CLOTH	1	
٨	-	WEPMA05B3198	MAINBOARD 5V POWER CORD	1	मिति स्थित स्थ स्थित स्थित स्थ
٨	-	WEPMA05B3138	MAINBOARD 24V POWER CORD	1	Ruiti.
⚠	-	WEPMA05L3618	MOTHERBOARD MAIN HARNESS	1	
	-	WEPMA05B3118	MAGNETIC RING	1	
	-	WEPMA05L2188	M3 TORX SCREW	2	
	-	WEPMA05B2978	M4 TORX SCREW	2	
				1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
		WEPMA05B0788	WARNING STICKER TAIWAN	1	
			POWER CORD TAIWAN	1	
	-	WEPMA05L1248	OPERATING INSTRUCTIONS TAIWAN	1	
	-	WEPMA31L9688	SCREW	10	
	-	WEP005T8517	CABLE TIE	1	
			SCREW	58	
	-	WEPMA05B0228	SCREW	54	
	-	WEPMA05L0238	SCREW	4	R
	-	WEPMA05L0248	SCREW	2	
	-	WEPMA05L0258	SCREW	2	
	-	WEPMA05L2068	SCREW	108	
	-	WEPMA05L6128	SCREW	11	
	-	WEPMA05P2998	SCREW	8	
	-	WEPMA05W0698	SCREW	34	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	-	WEPMA05K3018	SCREW	10	
	-	WEPMA05L2078	SCREW	10	
	-	WEPMA05W0688	SCREW	6	
	-	WEPMA05L0218	SCREW	8	
	-		OUTER BOX, BLUE TAIWAN	1	
	-	WEPMA05G0458 WEPMA05A0318	OUTER BOX, GREEN TAIWAN LEG LEATHER CASE BLUE	1	
	-		LEG LEATHER CASE GREEN	1	
	-	WEPMA05A0718	BACK LEATHER CASE BLUE	1	
	-	WEPMA05G0718	BACK LEATHER CASE GREEN	1	
⚠	-	WEPMA05L1108	POWERFUL AMPLIFIER BOARD POWER CORD	1	
٨	-	WEPMA05L0108	AUDIO LINE	1	
	-	WEPMA05G0818	HEAD HOLSTER GREEN	1	
	-	WEPMA05A0818	HEAD HOLSTER BLUE	1	
	-	WEPMA05L0818	HEAD SPONGE	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
♪	-	WEPMA05L0318	MOTHERBOARD WIRE HARNESS	1	
♪	-	WEPMA05L0518	AIR PUMP POWER CORD	1	
♪	-	WEPMA05L1518	USB CABLE	1	
	-	WEPMA05L3118	SNAP	8	SNAP
	-	WEPMA05A0518	LEFT LEG SPRING CLOTH BLUE	1	
	-	WEPMA05G0518	LEFT LEG SPRING CLOTH GREEN	1	
	-	WEPMA05A0918	RIGHT LEG SPRING CLOTH BLUE	1	
	-	WEPMA05G0918	RIGHT LEG SPRING CLOTH GREEN	1	N N
	-	WEPMA05A0118	BACK TO WEAR CLOTH BLUE	1	
	-	WEPMA05G0118	BACK TO WEAR CLOTH GREEN	1	