DENTAL FOTÖY

CLAIR

KULLANIM KILAVUZU

ÖNEMLİ

Bu kullanım kılavuzu BELMONT CLAIR model dental fotöyün nasıl kurulacağını anlatır. Bu kitap içerisindeki talimatları iyice okuyup anladıktan sonra kuruluma geçiniz. Kurulum sonrası daha sonra ihtiyaç halinde kullanmak üzere kılavuzu güvenilir bir yerde saklayınız.

Belmont

AEFT02A0

İÇİNDEKİLER

Ürünün amaçlanan kullanımı

Bu ürünün amaçlanan kullanım alanı diyagnoz, tedavi ve diş hekimliği prosedürleri, bu cihaz yetkili diş hekimleri veya diş hekimi nezaretinde asistan tarafından kulanılmalı.

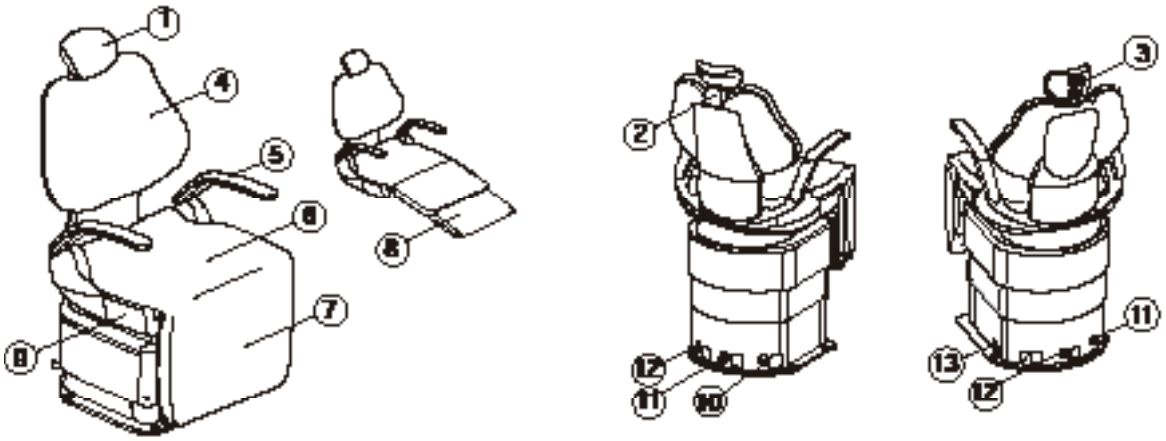
Diş hekimleri veya dental asistanlar hastanın fotöye gelişini ve gidişini denetlemeli ve yönlendirmeli.

İzin verilmediği süre içerisinde hastaların fotöye dokunmalarına ve kullanmalarına müsade edilmemeli.

Çevresel gereksinimler

Ortam ısıları	Çalışma +5°C - +40°C	Depolama -10°C - +50°C
Nem	%10 - %80	
Atmosfer basıncı	600 hPa - 1060 hPa	

1. GENEL BAKIŞ VE TEMEL PARÇALAR



Power Tetiyer Tipi Çift Mafsallı Tetiyer Tipi

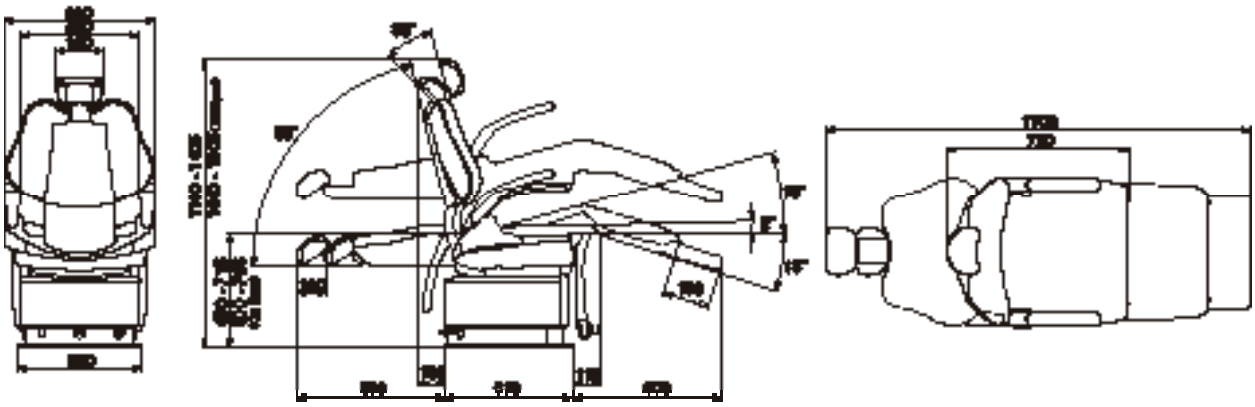
Fig.1-1 Genel Bakış

Ana Parçalar

1. Tetiyer
2. Power Tetiyer
3. Çif mafsallı Tetiyer
4. Sırtlık
5. Kolçak
6. Oturak
7. Ayak yaslıyacı
8. Katlanabilir Ayak yaslıyacı
9. P.C.Board kutusu
10. Power Tetiyer için çubuk svici
11. Manuel için çubuk svici
12. Oto mod için çubuk svic
13. Güç svici

2. BOYUT VE ÖZELLİKLER

2-1. BOYUTLAR -mm-



2-2. ÖZELLİKLER

Otural Yüksekliği	: 450mm (500mm CE Spec.)
Oturak kalkma aralığı	: 265mm
Sırtlık hareket aralığı	: Yatay pozisyondan 0°~80° üstü
Yatma mekanizması	: Sırtlık senkronize yatırması yatay pozisyonda (2°~16°) üstü
Otomatik Hareket	: 2-Ön ayar, 1-Son pozisyon hafıza ve 1-Otomatik geri gelme
Kontrol Voltaj	: DC12V
Güç Tüketimi	: 115V, 50/60Hz, 500/490W
	220/230V, 50/60Hz, 510/530W
	240V, 50/60Hz, 650/680W
Net Ağırlık	: 120 kg
Maksimum yük	: 135 kg
Bakım hayatı	: 10 yıl

3. KULLANIM TALİMATLARI

3-1. ANA SVİÇ (Fig.3-1)

Pompa kapağının sol tarafında bulunan ana düğmeden cihazı açınız.
Ana sviç üzerindeki yeşil ampül yanaçaktır.

⚠UYARI

Ana svici ancak el ile açıp kapatınız.
Günlük kullanım sonrası ana svici kapatınız.

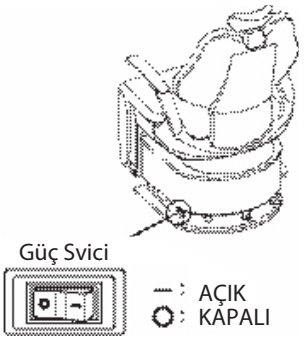
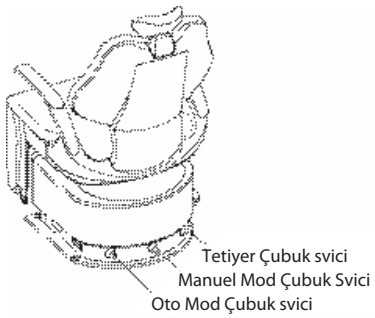


Fig.3-1 Ana Sviç

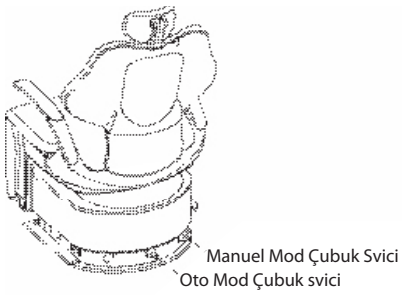
3-2. KONTROL

⚠UYARI

Fotöyü kullanmadan önce hasta ve kullanıcı için güvenli olduğunu kontrol edin.



Power Tetiyer Tipi



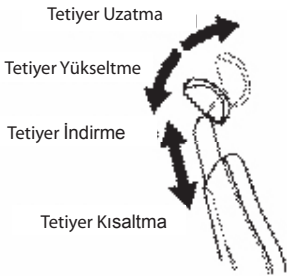
Çift Mafsallı Tetiyer Tip

Fig.3-2 Kontrol Sviç

3-2-1. Manuel Mod Kontrolü

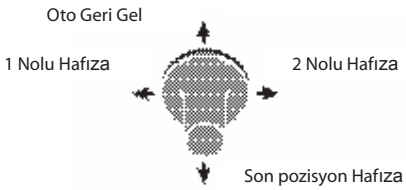
1) Koltuk kaldırma
   Koltuğu istenilen yükseklik pozisyonu elde edilene kadar manuel mod kontrol çubuğunu yukarıya doğru itiniz.
2) Koltuk indirme
   Koltuğu istenilen alçak pozisyonu elde edilene kadar manuel mod kontrol çubuğunu aşağıya doğru itiniz.
3) Sırtlık İndirme
   Sırtlığı istenilen pozisyon elde edilene kadar manuel mod kontrol çubuğunu sola doğru itiniz.
4) Sırtlık Kaldırma
   Sırtlığı istenilen pozisyon elde edilene kadar manuel mod kontrol çubuğunu sağa doğru itiniz

3-2-2. Power Tetiyer Kontrol



1) Tetiyer Uzatma
Tetiyer istenilen seviyeye uzatılana kadar tetiyer çubuk svicini yukarıya doğru itiniz.
2) Tetiyer İndirme
Tetiyer istenilen seviyeye indirene kadar tetiyer çubuk svicini aşağıya doğru itiniz.
3) Tetiyer Yükseltme
Tetiyer istenilen seviyeye yükseltilene kadar tetiyer çubuk svicini sağa doğru itiniz.
4) Tetiyer İndirme
Tetiyer istenilen seviyeye indirene kadar tetiyer çubuk svicini sola doğru itiniz.

3-2-3. Oto Mod Kontrol

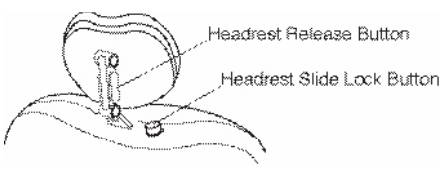


1) Hafıza Kontrol
Fotöy üzerinde iki adet önden ayarlanmış hafıza var. (1 Nolu Hafıza ve 2 Nolu Hafıza)
Kısa süreli olarak oto mod çubuğunu sola doğru itiniz, fotöy 1 nolu hafızaya otomatik olarak hareket edecektir.
(2 Nolu hafıza sağa doğru iterek aktif edilir.)
2) Otomatik Geri Gelme
Kısa süreli olarak oto mod çubuğunu yukarıya doğru itiniz, fotöy eski pozisyonuna geri gelecektir.
(Fotöy en alt seviyeye iner ve sırtlık dik pozisyon alır.)
3) Son pozisyon hafıza
Kısa süreli olarak son pozisyon hafıza çubuğunu aşağıya doğru itiniz, sırtlık pozisyonu aşağıya doğru iner (tedavi pozisyonu),
Sırtlık ağız tükürme pozisyonuna otomatik olarak gelecektir.
Kısa süreli olarak oto mod çubuğunu aşağıya doğru itiniz, sırtlık bir önceki pozisyona otomatik olarak hareket eder.

4) Emergency Stop
During automatic procedure (Preset, Auto return and Last position memory), depress of any side of the stick switch will cancel the automatic movement immediately.
Note : Do not depress the auto mode stick switch for over 3 seconds, because the memorized position in auto mode may be changed.

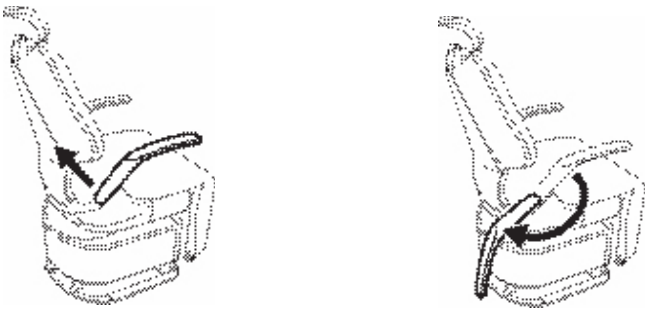
3-3. TWIN AXIS HEADREST (OPTIONAL)

1) Height Adjustment
Extension : Pull up the headrest to the desired height.
Lowing : Depress the headrest slide button and move to desired position
2) Angle Adjustment
Grasp the headrest release button on headrest mechanism and move to desired position.



3-4. ARMREST ROTATIO

Pull up the armrest, then rotate the armrest to clockwise direction.



3-5. SAFETY LOCK DEVICE (Fig.3-3)

All chair movements can be stopped automatically by the safety lock device when pressure is detected to the end of footrest. If the safety device has been activated, simply operate the base up button and remove the object causing the safety device to activate from this area.

Note : Seat lifting and backrest rasing can be operated when the safety lock device is activated.

4. AUTO MODE POSITION ADJUSTMENT

4-1. Preset position Adjustment

Two preset positions can be set.

1) Set the seat and the backrest to the desired preset position by manual mode stick switch.
2) Keep depressing the auto mode stick switch to left side until buzzer sounds (in about 3 seconds), then release it.
3) The position is memorized for Preset-1.
4) Preset-2 can be memorized by depressing the auto mode stick switch to right side, as following 1 to 3.

4-2. Mouth Rinsing Position Adjustment

Mouth rinsing position in last position memory movement can be adjusted.

1) Set the backrest to the desired mouth rinsing position by manual control.
2) Keep depressing the auto mode stick switch to downward until buzzer sounds (in about 3 seconds) and release the button.
3) This backrest position is memorized as the mouth rinsing position.

5. CARE AND MAINTENANCE

Other than cleaning, no scheduled maintenance of the chair is required.

⚠CAUTION

Turn OFF the main switch at the lowest seat position after daily operation and for a long term interval.

⚠CAUTION

All surfaces can be cleaned with DURR FD312 cleaner (or equivalent).
Do not drench the chair and unit.
Wipe all surfaces dry after cleaning.

6. ELECTROMAGNETIC COMPATIBILITY

Medical electrical equipment needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in this manual.

Portable and mobile RF communications equipment can affect medical electrical equipment.

The equipment or system should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, the equipment or system should be observed to verify normal operation in the configuration in which it will be used.

Guidance and manufacture's declaration - electromagnetic emissions		
The CLAIR(CHAIR) is intended for use in the electromagnetic environment specified below. The customer or the user of the CLAIR(CHAIR) should assure that it is used in such an environment.		
Emissions test	**Compliance**	**Electromagnetic environment - guidance**
RF emissions CISPR 11	Group 1	The CLAIR (CHAIR) uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The CLAIR (CHAIR) is 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.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/ Flicker emissions IEC 61000-3-3	Complies	

Guidance and manufacture's declaration - electromagnetic immunity			
The CLAIR(CHAIR) is intended for use in the electromagnetic environment specified below. The customer or the user of the CLAIR(CHAIR) should assure that it is used in such an environment.			
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 file. 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 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.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% U_T (>95% dip in U_T) for 0.5 cycle 40% U_T (60% dip in U_T) for 5 cycle 70% U_T (30% dip in U_T) for 25cycle <5% U_T (>95% dip in U_T) for 5 s	<5% U_T (>95% dip in U_T) for 0.5 cycle 40% U_T (60% dip in U_T) for 5 cycle 70% U_T (30% dip in U_T) for 25cycle <5% U_T (>95% dip in U_T) for 5 s	Mains power quality should be that of a typical commercial or hospital environment. If the user of the CLAIR (CHAIR) requires continued operation during power mains interruptions, it is recommended that the CLAIR (CHAIR) be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	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 applications of the test level.			

Guidance and manufacture's declaration - electromagnetic immunity

The CLAIR (CHAIR) is intended for use in the electromagnetic environment specified below. The customer or the user of the CLAIR (CHAIR) 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 CLAIR(CHAIR), including cables, than the recommended separation distance calculated from the equation applications to the Frequency of the transmitter. **Recommended separation distance**
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz outside ISM bands[a]	3 Vrms	$d = 1.2\sqrt{P}$
Radiated RF IEC 61000-4-3	3V/m 80 MHz to 2.5 GHz	3 V/m	$d = 1.2\sqrt{P}$ 80 MHz to 800 MHz $d = 2.3\sqrt{P}$ 800 MHz to 2.5 GHz 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 metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,[a] should be less than the compliance level in each frequency range.[b] Interference may occur in the vicinity of equipment marked with the following symbol: 

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

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by adsorption 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 CLAIR(CHAIR) is used exceeds the applicable RF compliance level above, the CLAIR(CHAIR) should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the CLAIR(CHAIR).

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

Recommended separation distances between Portable and mobile RF communications equipment and the CLAIR(CHAIR)

The CLAIR(CHAIR) is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the CLAIR(CHAIR) can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the CLAIR(CHAIR) as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	**Separation distance according to frequency of transmitter** m		
	150 kHz to 80 MHz $d = 1.2\sqrt{P}$	**80 MHz to 800 MHz** $d = 1.2\sqrt{P}$	**800 MHz to 2.5 GHz** $d = 2.3\sqrt{P}$
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 metres (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 800MHz, the separation distance for the higher frequency range applies.

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

NOTE

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