# DENTAL CHAIR PROGRES

# INSTALLATION INSTRUCTIONS

IMPORTANT

This manual provides installation instructions for BELMONT PROGRES. The instructions contained in this booklet should be thoroughly read and understood before attempting installation of chair. After the installation is completed, file this manual and refer back to it for future maintenance.



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# 1. OVERALL VIEW AND MAJOR COMPONENTS

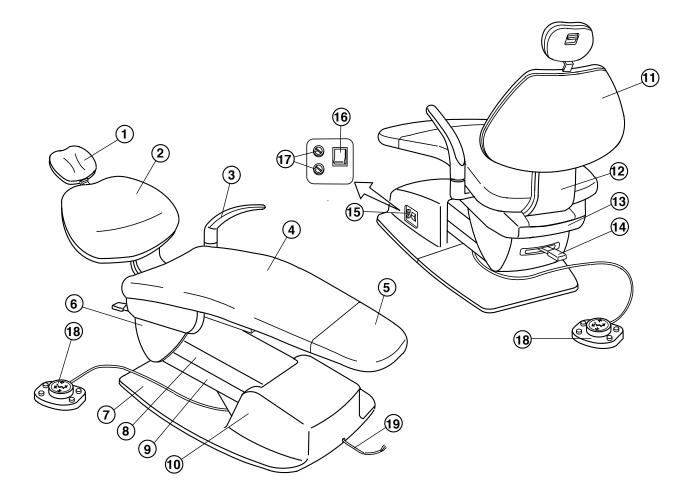


Fig.1-1 Overall View

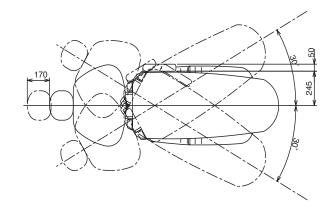
- 1. Headrest
- 2. Backrest
- 3. Armrest (Left)
- 4. Seat
- 5. Seat Cover
- 6. Flange Cover
- 7. Base
- 8. Upper Link Cover
- 9. Lower Link Cover
- 10. Pump Cover

- 11. Backrest Cover
- 12. Back Support
- 13. Rear Flange Cover
- 14. Rotation Lock Lever
- 15. Main Switch Panel
- 16. Main Switch
- 17. Fuse Holder
- 18. Foot Switch
- 19. Power Supply Cable

# 2. DIMENSIONS AND SPECIFICATIONS

#### **2-1. DIMENSIONS**

-mm-



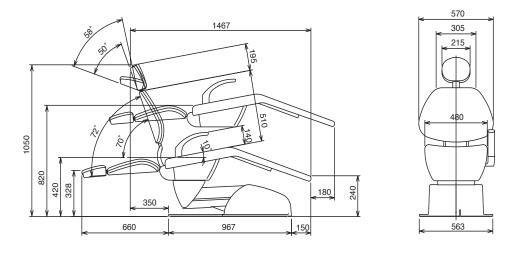


Fig.2-1 Dimensions

## **2-2. SPECIFICATIONS**

Seat Initial Height	420mm
Seat Lifting Stroke	400mm
Backrest Movement	$-2^{\circ} \sim 70^{\circ}$ above Horizontal
Auto Movements	2 Preset, 1 Last Position Memory and 1 Auto Return
Control Voltage	DC12V
Control Voltage	
ç	
ç	115V, 50/60Hz, 5.1A/3.5A
ç	115V, 50/60Hz, 5.1A/3.5A 220V, 50/60Hz, 1.8A/1.8A

#### **3. INSTALLATION INSTRUCTIONS**

#### **3-1. UNPACKING**

The chair is delivered in 2 cartons (base section and top section cartons). Open the top section carton and check the contents with following check list.

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#### Do not use sharp instrument, it may damage upholstery.

1. Headrest Assembly1 set
2. Backrest Assembly1 set
(Backrest Cushion, Backrest Cover, Back Support Cover)
3. Seat with Seat Cover Assembly1 set
4. Armrest (Standard Type; Left Side only)1 set
5. Screw Kit
M8x20 Socket Head Cap Screw with Spring washer for Backrest4 pcs.
Wox20 Socket fread Cap Selew with Spring washer for Dackrest pes.
M5x12 Truss Head Screw for Back Support Cover and Pump Cover5 pcs.
M5x12 Truss Head Screw for Back Support Cover and Pump Cover5 pcs.
M5x12 Truss Head Screw for Back Support Cover and Pump Cover5 pcs. M6x35 Pan Head Screw and Flat Washer for Seat2 sets

#### **3-2. INSTALLATIONS**

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Do not plug the power supply line before removing Red tagged bolt.

(1) Remove all the staples fixing the carton to pallet, or cut the carton just above the stapled line, and remove the carton. (**Fig.3-1**)

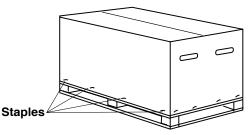


Fig.3-1 Base Section Carton

(2) Place the base section with pallet behind the planned location for chair.

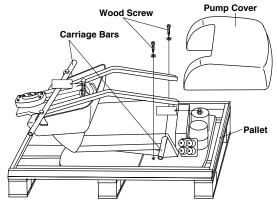


Fig.3-2 Removing Base Sectionfrom Pallet

(3) Remove the pump cover and remove 2 x wood screws from the base.

Remove the base section from the pallet by holding the carriage bars and place it at planned location. (**Fig.3-2**)

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# Do not lift the chair by upper structure after removing the red tagged bolt.

- (4) Remove the carriage bar Rear. (Fig.3-3)
- (5) Remove the red tagged bolt (carriage bolt) from centre of chair flange. (**Fig.3-3**)
- (6) Remove the red tagged oil plug from the oil reservoir. (**Fig.3-3**)
- (7) Plug the power supply cable into suitable power supply outlet.

Raise the upper structure by the foot switch to the highest position.

Raise the backrest by the foot switch to the upright position.

- **Note :** Refer to the operating manual for chair operation.
- (8) Remove the back support plate from the backrest cushion by removing four M6 x 15 screws.
  Fix the back support plate to the back support with four M8 x 20 socket head cap screws and spring washers.
  (Fig.3-4)
- (9) Attach the back support cover to the back support with two M5 truss head screws. (Fig.3-5)
- (10) Fix the backrest cushion to the back support plate with four M6 x 15 screws.(Fig.3-6)

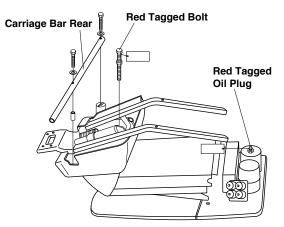


Fig.3-3 Removing Carriage Bar Rear, Red Tagged Bolt and Oil Plug

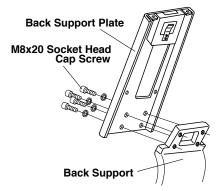


Fig.3-4 Fixing Back Support Plate

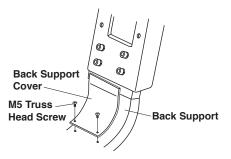


Fig.3-5 Fixing Backr Support Cover

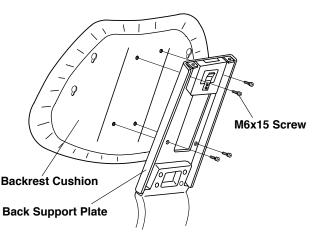


Fig.3-6 Fixing Backrest Cushion

(11) Attach the backrest cover to the backrest cushion. (Fig.3-7)

Insert upper two hooks of backrest cover into upper fixing holes of backrest. Keep pressing the backrest against backrest,

slide down the backrest cover so that lower two hooks catch the lower fixing holes.

(12) Attach the headrest. (Fig.3-7)

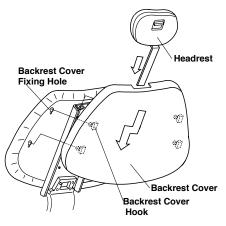
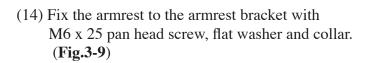


Fig.3-7 Fixing Backrest Cover and Headrest

(13) Fix the seat to the base section.

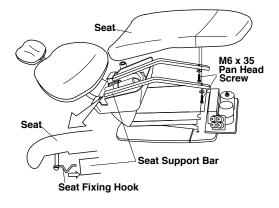
Hook 2 x fixing hooks into the seat support bars and fix the seat to the seat support bars with two M6 x 35 pan head screws and flat washers. (**Fig.3-8**)



15) Fix the chair base to the floor with two wood screws, or by other appropriate means.(Fig.3-10)

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Chair must be fixed to the floor with bolts to prevent from falling down. When fixing chair to the floor, be careful not to damage pipings under the floor.





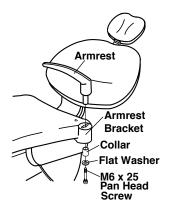


Fig.3-9 Fixing Armrest

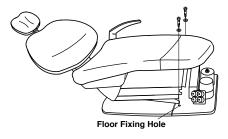


Fig.3-10 Fixing Base to Floor

(16) Fix the pump cover to the base with three M5 x 12 truss head screws.(Fig.3-11)

M5 x 12 Truss Head Screw

**Note :** After installation is completed, check all movements following the operating manual.

Fig.3-11 Fixing Pump Cover

## 4. SPEED ADJUSTMENT (Fig.4-1 and Fig.4-2)

Seat lowering speed and backrest reclining speed can be adjusted by the speed control knob on the solenoid valve block.

Solenoid valve numbers and functions are shown in Fig.4-1.

A. Remove the pump cover. (Refer to 3-2(17))

Solenoid valve block is located on the right side of base.

Each speed control knob is located on the rear side solenoid valve block.

- B. Loosen the lock nut for the speed control knob.
- C. Turning the speed control knob clockwise decreases speed and turning counterclockwise increases speed.
- D. After adjustment, tighten the lock nut and reattach the pump cover.

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The solenoid valve will be locked if the speed is reduced excessively. Oil may leak from the speed control knob if the speed is increased excessively.

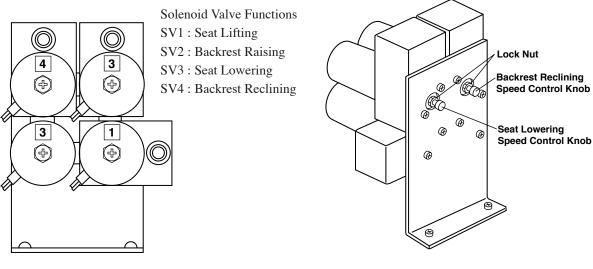
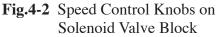
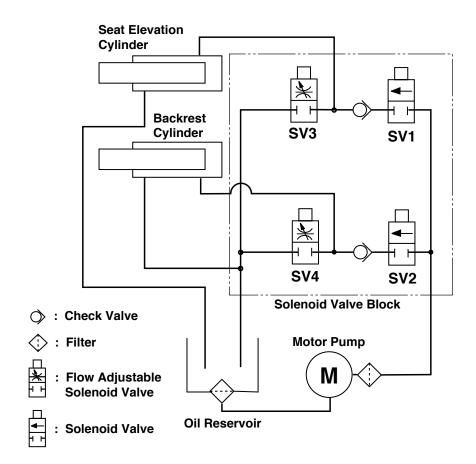


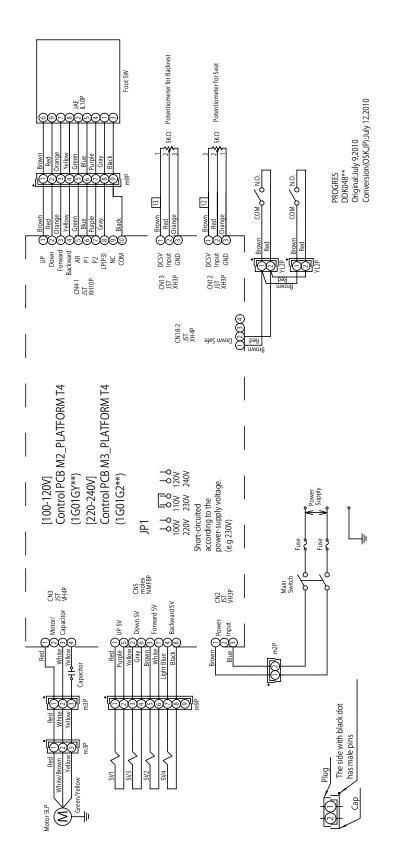
Fig.4-1 Solenoid Valve Numbers and Functions

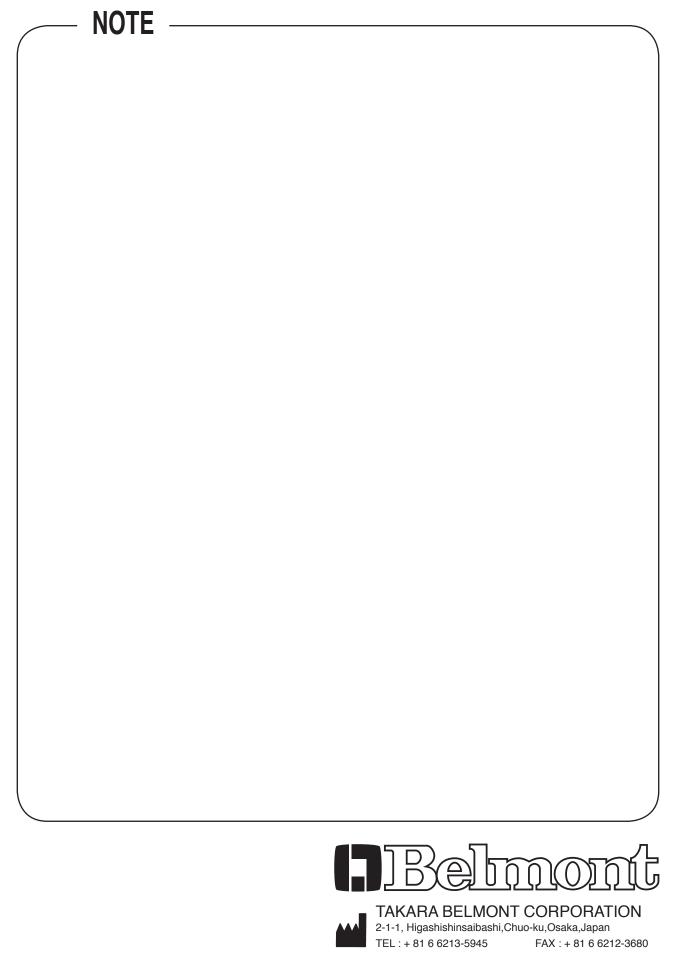


# **5. HYDRAULIC DIAGRAM**



# 6. ELECTRICAL DIAGRAM





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