Specific instructions for use of Bio-Art A7 Plus-E Articulator

Integral part of the "Technical Instructions Manual of the Bio-Art Articulator and Facebow"

1-INTRODUCTION

Before using the A7 Plus-E Articulator, read all the information contained in this material carefully.

The **A7 Plus-E** articulator is exclusively manufactured by Bio-Art and has a special feature that enables accurate adjustments of the Protrusion of the Mandible.

Note: This document is provided solely and exclusively as an integral part of the Bio-Art Articulator Manual and has the sole objective of presenting the different features existing in the **A7 Plus-E** in relation to other Articulator models manufactured by Bio-Art. For more information on the use of other functions of the Articulator, consult the "Technical Instructions Manual of the Bio-Art Articulator and Facebow" supplied with the product.

2-INSTRUCTIONS FOR USE OF THE MANDIBULAR PROTRUSION ADJUSTMENTS

The **A7 Plus-E** Articulator basically has the same features of use as A7 Plus Articulator, except that Condylar Guides and Bennett Angle Adjusting Device with some special resources were used in this model to enable adjustment of Mandibular Protrusion by up to 5 mm in a controlled and accurate manner, as shown in **Figure 1**.

To change the position of the Condylar Guides of the Articulator in relation to their Condylar Elements in order to obtain an accurate adjustment of the Mandibular Protrusion, the Protrusion Knob and its respective lock must be used, as shown in **Figure 1**.

To obtain this adjustment, check first if the Stabilizer Shaft is unlocked. In sequence, release the lock of the Protrusion Knob in the anticlockwise direction and then turn the Protrusion Handle observing the mark on the Pin until the desired measurement is obtained.

Note: each "mark" on the Stabilizer Shaft corresponds to the distance of 1.0 mm of protrusion.

Ensure that the sphere of the Condylar Element remains in contact with the end of the Protrusion Knob screw during adjustments. After obtaining the ideal position of the protrusion adjustment, lock the knob by turning the Lock in the clockwise direction until they are firmly fixed, as shown in Figure 2.

Figure 1

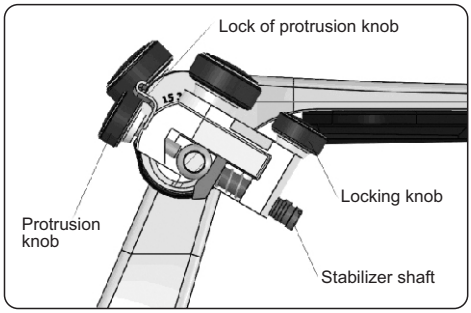
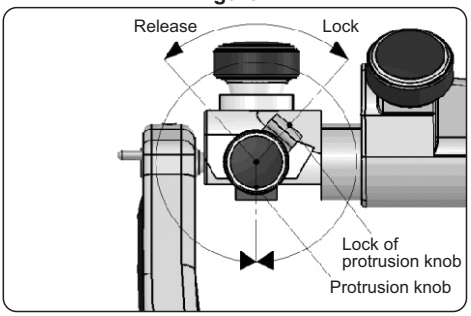


Figure 2



3-COMPARATIVE TABLE BETWEEN THE MAJOR FEATURES OF THE BIO-ART ARTICULATORS

Model / Feature	4000-S	A7 Fix	A7 Plus	A7 Plus-E
Classification	Arcon	Arcon	Arcon	Arcon
Condylar Guide	Adjustable / Curve	Fixed / Curve at 30°	Adjustable / Curve	Adjustable / Flat
Bennett Angle	Adjustable	Fixed at 15º	Adjustable	Adjustable
Intercondylar Distance	Adjustable	Fixed at 110 mm	Fixed at 110 mm	Fixed at 110 mm
Central Lock	No	Yes	Yes	Yes
Stabilization System	Rubber Connection	Magnetic	Rubber Connection	Added to the Protrusion Adjustment System
Immediate Side Shift	No	No	No	No
Protrusion Adjustment	No	No	No	Yes (millimeter adjustment)

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4-LIST OF PARTS (COMPLEMENTARY)

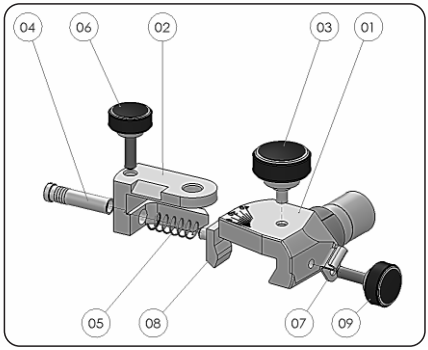

Figure 3

ITEM	QTY	CODE	PART DESCRIPTION	
01	01	FCDL0829	GUIA CONDÍLICA DIREITA	RIGHT CONDYLAR GUIDE
	01	FCDL0828	GUIA CONDÍLICA ESQUERDA	LEFT CONDYLAR GUIDE
02	01	FALH0080	ALHETA DIREITA	RIGHT BENNETT ANGLE ADJUSTING DEVICE
	01	FALH0081	ALHETA ESQUERDA	LEFT BENNETT ANGLE ADJUSTING DEVICE
03	02	SCRE0009	PARAFUSO DE FIXAÇÃO DA ALHETA	FIXATION KNOB OF THE BENNETT ANGLE ADJUSTING DEVICE
04	02	FEIX0086	EIXO DO ESTABILIZADOR	STABILIZER SHAFT
05	02	CMOL0031	MOLA DO ESTABILIZADOR	STABILIZER SPRING
06	02	SCRE0011	MANÍPULO DE BLOQUEIO	LOCKING KNOB
07	02	FTRA0082	TRAVA DO MANÍPULO DE PROTUSÃO	LOCK OF PROTRUSION KNOB
08	02	FEST0084	ESTABILIZADOR	STABILIZER
09	02	SCRE0011	MANÍPULO DE PROTUSÃO	PROTRUSION KNOB

Note: The items described on the list of parts above are specific for A7 Plus-E Articulator. For identifications of other items of the Articulator, consult the Complete Manual of the Bio-Art Articulators supplied with the product.

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Bio-Art Equipamentos Odontológicos Ltda.
Rua Teotônio Vilela, 120 - Jd. Tangará - CEP 13568-000 - São Carlos - SP - Brasil
Tel. +55 (16) 3371-6502 - Fax +55 (16) 3372-5953 - www.bioart.com.br