



LINE OF MANUAL SURVEYORS

MAINTENANCE AND INSTRUCTION MANUAL

GENERAL DESCRIPTION

The surveyor is the ideal manual instrument for use at any planning stage on models in dental laboratories. It allows the Technician to: determine the path of insertion, position the attachments, layout reference points, survey the prosthesis, locate the anchorage position of clasps.

DESCRIPTION AND OPERATION OF THE TWO ARMS

The two surveying arms articulate on the one central column or can be locked in any position. The arm joint moves on self-lubricating ferrules and can be both frictioned and locked by means of the knob (15).

DESCRIPTION AND OPERATION OF THE MODEL-HOLDER BASE

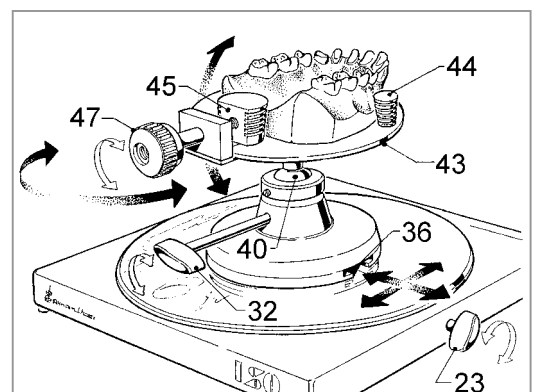
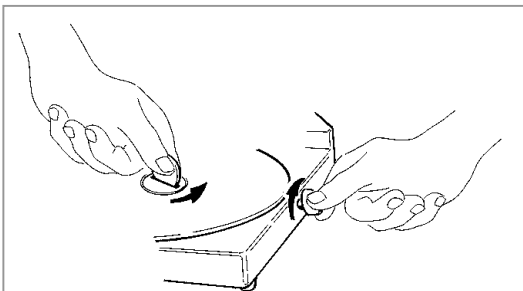
The model-holder can freely slide on the working plane or be locked in place according to different requirements. To lock it firmly, simply let the spring pin (turn the knob - 23) come out from the working plane, then introduce the longitudinal guide (36) of the model-holder and turn the same knob (23) rightwards.

If you are working with the model-holder locked in place, we recommend to tighten it as near as possible to the central axis of the working plane in order to guarantee that even under stress no vibrations are originated.

The model-holder plate (43) is assembled on a ball (40), it can rotate up to 360° and it can be tilted up to a maximum of 30° allowing to restore the chewing conditions; the proper knob (32) must be accurately tightened to lock it firmly in place

The new model positioning system allows a wider stroke and a safer locking. When turning the knob (47) rightwards, the pressure element (46) recedes, whereas it goes forward if the knob is turned leftwards and it locks the model against the fixed push rods (44); for smaller pieces, it is possible to let the complete locking system slide forward along the transverse slots (loosen

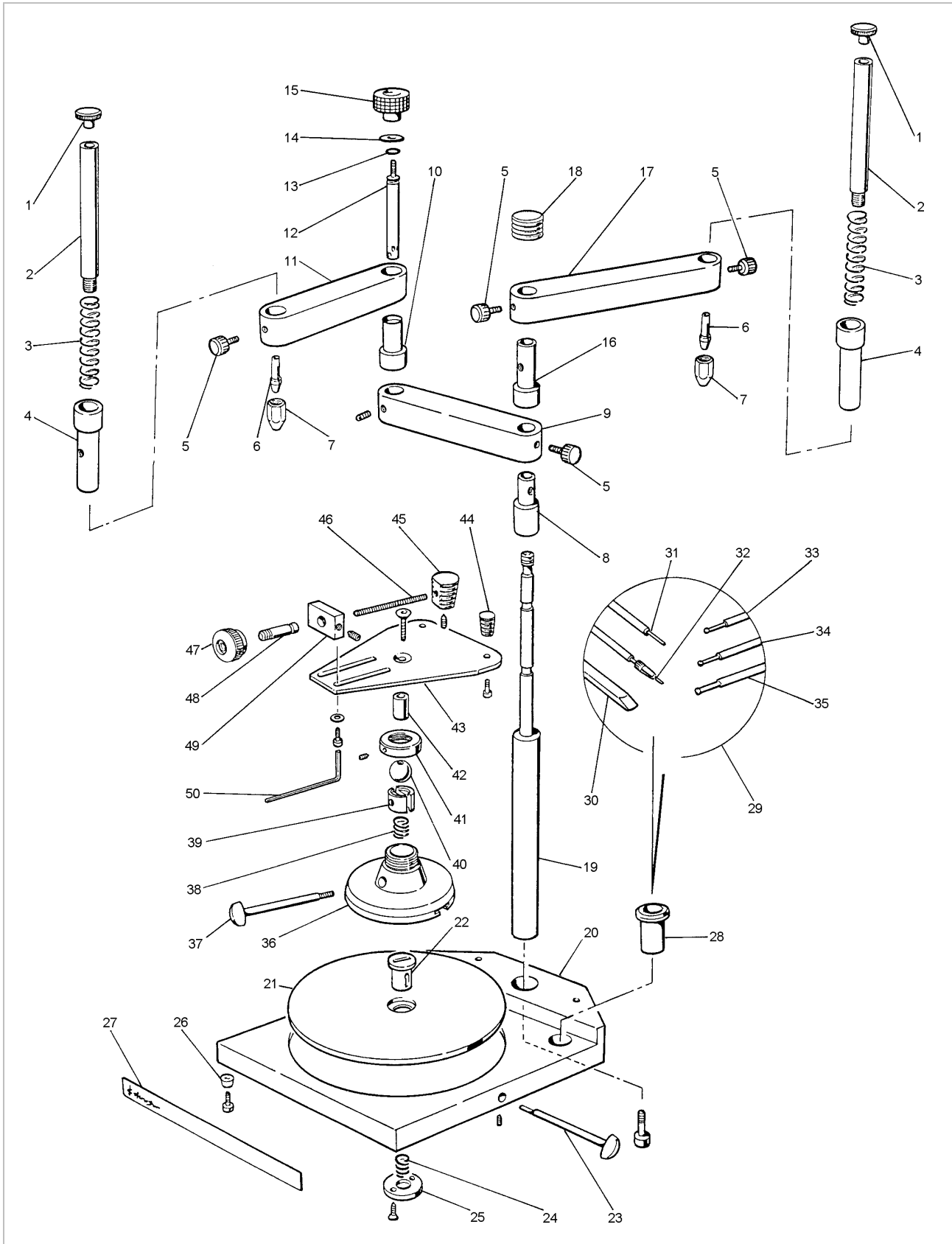
the upper screws and close them in the new position).



Should you need to work with the free model-holder, you will have to tighten the locking pin to the base, utilizing for that purpose a coin to lower the pin, turn it rightwards and fix it with the knob (23).

SPARE-PART LIST

N°	CODE	DESCRIPTION
1	RP009	KNOB
2	RP010	PLIERS HOLDING ROD
3	RP013	STEM SPRING
4	---	BUSHING FOR PLIERS HOLDING ROD
5	NVT151	M 4x10 KNOB
6	RP012	CHUCK PLIERS Ø 3,0
---	RP040	CHUCK PLIERS Ø 2,5
---	RP035	CHUCK PLIERS Ø 2,1 (UPON REQUEST)
7	RP011	PLIERS LOCKING NUT
8	---	BUSHING ON COLUMN (DOUBLE-JOINT ARM)
9	---	REAR HORIZONTAL AXIS
10	---	BUSHING ON JOINT
11	---	FRONT HORIZONTAL AXIS
12	---	ROTATION AXIS
13	NPOR109	OR RING
14	RI009	SHOULDER WASHER
15	NVT147	M6 FEMALE INDENTED KNOB
16	---	BUSHING ON COLUMN (FIXED ARM)
17	---	FIXED ARM
18	RP052	TAP ON COLUMN
19	---	CALIBRATED AND GROUND STAINLESS STEEL COLUMN
20	---	BASE
21	---	WORKING PLANE
22	RP004N	MODEL-HOLDER LOCKING PIN
23	RP510	MODEL-HOLDER LOCKING ROD
24	RC019	SPRING
25	RP054	LOWER CLOSURE
26	NVG051	RUBBER PROTECTION FEET
27	---	A/B/C MARK LABEL
28	RP053	WASHER FOR TOOL SUPPORT
29	RP505	SET OF TOOLS
30	RP030	WAX KNIFE
31	RP034	ANALISING ROD
32	NVV040	CARBON MARKER
33	RP031	GAUGE FOR UNDERCUTS -0,25 mm
34	RP032	GAUGE FOR UNDERCUTS -0,50 mm
35	RP033	GAUGE FOR UNDERCUTS -0,75 mm
36	---	MODEL-HOLDER BASE
37	RP507	ARTICULATED JOINT LOCKING ROD
38	RP017	MODEL-HOLDER SPRING
39	RP016	LOCKING CLAMP
40	RP018	ARTICULATED JOINT SPHERE
41	RP019	ADJUSTMENT RING NUT
42	RP042	SPACER
43	---	MODEL-HOLDER PLATE
44	RI027	PUSH ROD ON PLATE
45	RI021	MODEL LOCKING PIN
46	RI023	SET-SCREW
47	RI042	MODEL-HOLDER KNOB
48	RI022	GUIDE FOR SCREW
49	RI024N	GUIDE SUPPORT
50	NVT201	HEXAGONAL KEY-WRENCH NO. 3
---	RP502N	MODEL-HOLDER COMPLETE
---	RP511	FIXED ARM COMPLETE
---	RP512	DOUBLE-JOINT ARM COMPLETE



DESCRIPTION OF STANDARD ACCESSORIES

The tools are stored in a specific support (28) as follows:

one graphite pencil-holder, one analysing rod, three undercut gauges (0,25 - 0,50 - 0,75), one wax trimming tool which can be heated to remove the wax in excess.

One collet diameter 3,0 mm is assembled on the chuck rod and a second collet diameter 2,5 mm is attached to the manual.

MAINTENANCE

To assure optimum performance of the instrument, it is simply sufficient to clean accurately any sliding components and lubricate them.

It is also possible to dismantle any single component by referring to the enclosed plan.

TECHNICAL REFERENCE REGULATIONS AND TEST PROCEDURES

Every instrument is mass-manufactured by DENTALFARM in compliance with technical and safety rules in force, as provided for by the 2006/42 EEC Community Directive on Machinery.

This unit is not classified as AEE (electric and electronic device, whose correct operation depends on electric currents and electromagnetic fields), so the Directive 2002/96 CE does not apply.

TECHNICAL SPECIFICATIONS


Model	Main features	Height mm	Weight Kg
A	Fitted with one rigid arm for the horizontal rotation (ideal for positioning attachments)	310	3,9 (4,2)
B	Fitted with one jointed arm with pantograph movement (ideal for general surveying)	310	4,1 (4,4)
C	Fitted with two arms to carry out both of the above operations on one model	310	4,4 (4,7)

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