

Technician's instructions

INTRA head L67 - 1.008.1832



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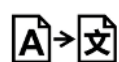


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
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1 User instructions

1.1 Abbreviations

IFU	Instructions for use
CI	Care instructions
AI	Assembly instructions
TI	Technician's instructions
SC	Recurrent test
IEC	International Electrotechnical Commission
EMC	Electromagnetic compatibility

1.2 Symbols

	Important information for users and service technicians
	Original language German

1.3 Target group



NOTE

Have any repair and maintenance work on the device performed by KaVo-trained technicians only.

1.4 Product name

The present TI is valid for INTRA Head L67 (**Mat. no. 1.008.1832**).



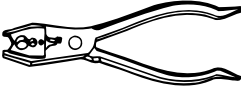



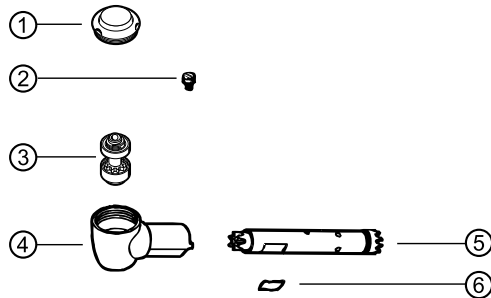
2 Disassembly

NOTE

To undo the screw connections use the keys with SW 6.3 in a standard ¼" bit holder screwdriver.

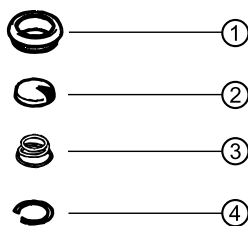
2.1 Disassembly of the head housing

Tool	Description
	Screwdriver (Mat. no. 0.308.0004)
	Screwdriver bit (Mat. no. 0.410.0784)
	Assembly pliers (Mat. no. 0.411.2421)
	Wrench (Mat. no. 0.411.2371)




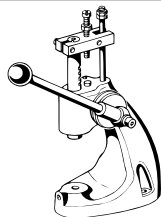



- ▶ Heat screw ② with hot air blower.
- ▶ Use the screwdriver and screwdriver bit to unscrew and remove the screw ② from the head housing ④.
- ▶ Use the assembly pliers to turn the the adapter ⑤ slightly and pull it out; then remove the spring ⑥.
- ▶ Turn the wrench counterclockwise to unscrew the cover ①.
- ▶ Remove the drive insert ③ from the head housing ④.

2.2 Disassembly of the cover



- ▶ Take the spring washer ④ out of the cover ①.
- ▶ Take off the pressure spring ③ and cap ②.

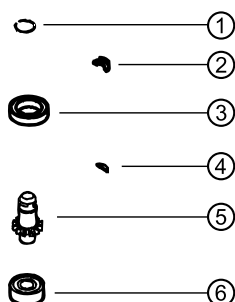
2.3 Disassembly of the drive insert

Dental tool	Description
	Tweezers (Mat. no. 0.308.1410)
	Lever press (Mat. no. 0.362.0000)
	Die (Mat. no. 0.411.2962) for lever press spindle
	Insert (Mat. no. 0.410.0464) for lever press support base
	Plate (Mat. no. 0.410.0724)



NOTE

The lever press (**Mat. no. 0.362.0000**) is used together with the die (**Mat. no. 0.411.2962**) with the thick attachment for the spindle and insert (**Mat. no. 0.410.0464**) for the support base.



- ▶ Use the tweezers to take off the wire ring ① and remove the slide ②.
- ▶ Insert the drive axle ⑤ into the milled edge of the plate and force off the ball bearings ③ from the drive axle ⑤ with the lever press.
- ▶ Remove segment ④.
- ▶ Insert the die with the thick attachment into the spindle on the lever press.
- ▶ Insert the drive axle ⑤ into the milled edge of the plate and force off the ball bearings ⑥ from the drive axle ⑤ with the lever press.

3 Assembly

3.1 Assembly instructions

- ▶ Material numbers for spare parts are listed in the separate spare parts sheet.

See: KaVoTIP - Technical Information Portal

Prerequisites

- ✓ All parts must be cleaned thoroughly.
- ✓ Glued joints must be clean; there must be no traces of grease or adhesive residue.

- ▶ After assembly, spray thoroughly with KaVo Spray.



NOTE

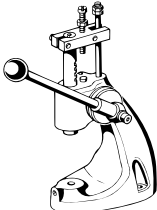



For further information on the bonding procedure, curing times and temperatures, please refer to the respective data sheet of the manufacturer.



NOTE

For screw connections with a torque requirement, use standard ¼" bit torque screwdrivers with a measuring accuracy of at least ± 6% according to the DIN EN ISO 6789 standard.

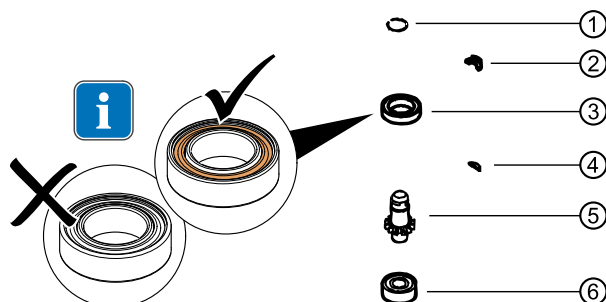
3.2 Assembly of the drive insert

Tool	Description
	Lever press (Mat. no. 0.362.0000)
	Die (Mat. no. 0.411.0352) for lever press spindle
	Plate (Mat. no. 0.410.0724)
	Assembly mandrel (Mat. no. 0.411.0961)



NOTE

The lever press (**Mat. no. 0.362.0000**) is used together with the die (**Mat. no. 0.411.0352**) with the thin attachment.



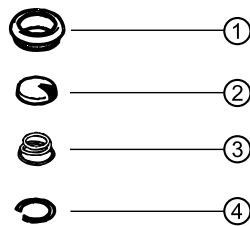


NOTE

Note the installation direction of the ball bearing ③. The coloured cover washer must face outwards (top).



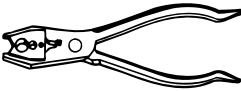



- ▶ Place the ball bearing ⑥ on the drive axle ⑤, insert into the drilled hole on the plate and impress with the lever press.
- ▶ Insert the segment ④ into the drive axle ⑤.
- ▶ Place the ball bearing ③ on the drive axle ⑤, insert into the drilled hole on the plate and impress with the lever press.
- ▶ Insert the assembly mandrel into the drive insert from above, insert the slide ② into the drive axle ⑤ and push the new wire ring ① over the assembly mandrel until the ring ① slots into place in the groove.

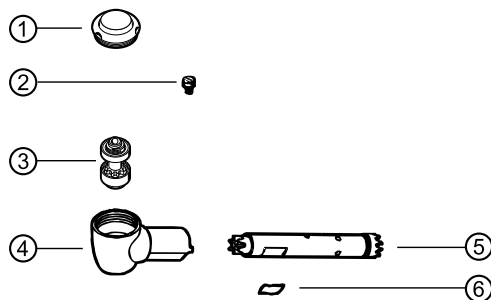
3.3 Assembly of the cover



- ▶ Insert the cap ② into the cover ①.
- ▶ Fit the pressure spring ③ inside the cover ① and secure with a spring washer ④.

3.4 Assembly of the head housing

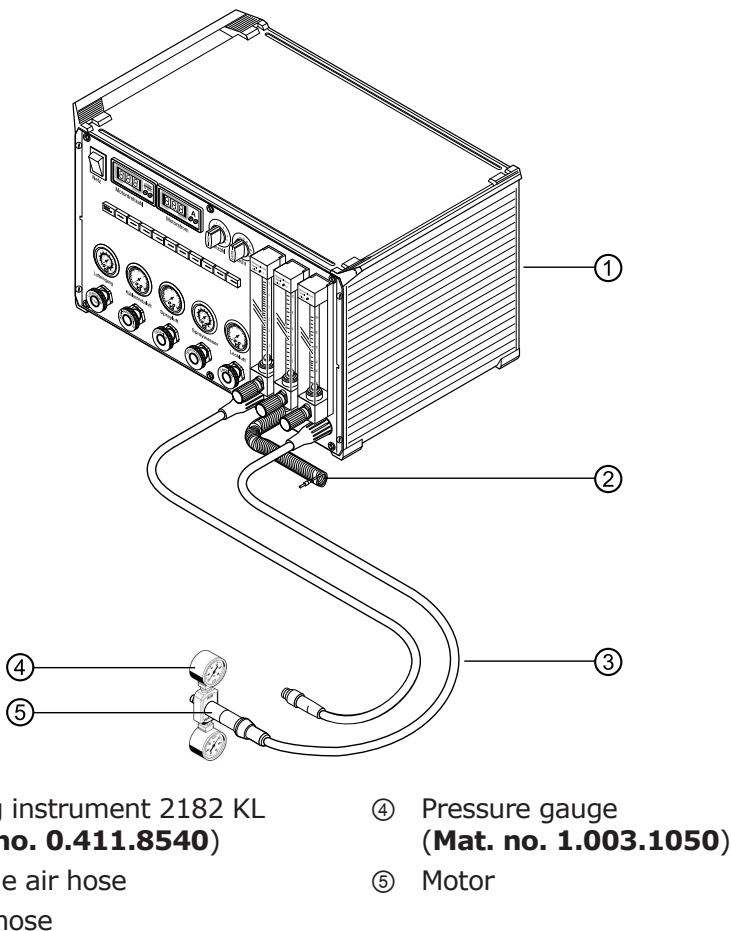
Tool	Description
	Wrench (Mat. no. 0.411.2371)
	Blade holder (Mat. no. 0.411.2271)
	Assembly pliers (Mat. no. 0.411.2421)
	Loctite 603 adhesive 10 ml (Mat. no. 0.359.2009)
	Screwdriver (Mat. no. 0.308.0004)
	Screwdriver bit (Mat. no. 0.410.0784)



- ▶ Insert the drive insert ③ into the head housing ④.
- ▶ Screw the cover ① into the head housing ④ and tighten to 100 Ncm with the wrench.
- ▶ Insert the spring ⑥ (curvature facing out) into the milled edge on the adapter ⑤.
- ▶ Use the assembly pliers to slide the adapter ⑤ into the head housing ④, lining up the threaded bore for the screw ② at the same time.
- ▶ Insert the screwdriver bit in the blade holder and affix it.
- ▶ Insert the blade holder into the torque screwdriver.
- ▶ Moisten the screw ② with adhesive and use the screwdriver to screw it into the head housing ④ with a torque of 5 Ncm.
- ▶ Allow the adhesive to cure for 5 minutes at 120 °C.

4 Test

4.1 Test set-up



4.2 Test instructions



NOTE

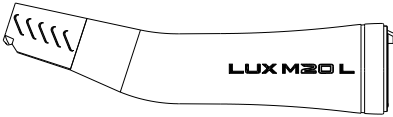

The following evidence must be documented:


- Customer's address and repair dates
- Material number or sales number of the product
- Serial number of the product
- Material number of the spare parts
- Name, date, signature or personnel number of the repair and/or test engineer

Prerequisites

- ✓ Cooling air flow: 5 ± 1 NI/min
- ✓ Drive speed: max. 40,000 min⁻¹

▸ Adjusting the pressures on the test device with the pressure gauge.

Test equipment	Description
	MASTERmatic LUX M20 L (Mat. no. 1.009.3620) Alternative: GENTLEpower LUX 20 LP (Mat. no. 1.001.7453)
	Test bur A (Mat. no. 0.410.1802)

Test equipment	Description
	Test bur B (Mat. no. 0.410.1733)



NOTE

We recommend that you lubricate the instrument after each repair and operate it with the test pin for at least 2 minutes each in clockwise and anti-clockwise direction without load. This procedure assures optimal lubrication.

Test	Test equipment	Procedure
Check repair documents and ID		<ul style="list-style-type: none"> ▶ Check product ID, type, and serial number.
Carry out a visual inspection		<ul style="list-style-type: none"> ▶ Carry out a general visual inspection of external condition. ⇒ There should be no visual evidence of external damage.
Check head clamping ring	<ul style="list-style-type: none"> ▪ MASTERmatic M20 L 	<ul style="list-style-type: none"> ▶ Insert the head into the shank and pull it out. ⇒ It can be inserted and pulled out easily. ⇒ The head fits tightly on the shank.
Check chuck system	<ul style="list-style-type: none"> ▪ Test bur A ▪ Test bur B 	<ul style="list-style-type: none"> ▶ Insert test bur A into the chucking system, run briefly, apply radial and axial load, and then remove it. ⇒ Test bur A should enter the chucking system easily without actuating the pushbutton. ⇒ Test bur A can be removed with ease. ▶ Insert test bur B into the chucking system. ⇒ Test bur B locks securely. ▶ Check the manual snap-in safety by pulling on test drill B.
Check the running performance		<ul style="list-style-type: none"> ▶ Spin the adapter drive manually. ⇒ The drive runs easily.
	<ul style="list-style-type: none"> ▪ MASTERmatic M20 L ▪ Test bur A 	<ul style="list-style-type: none"> ▶ Run the head with reducing shank under test conditions and off-load. ⇒ There should be no noticeable vibrations or running noise. ▶ Test torque transmission under load.
Check power consumption (max. drive speed 40,000 min ⁻¹)	<ul style="list-style-type: none"> ▪ MASTERmatic M20 L 	<ul style="list-style-type: none"> ▶ Check power consumption with no load after a short running time. ⇒ Power consumption: max. 60 mA



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