

Accura Sx, Cx, Pro, Lab, CI Calibration Manual



briot

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Issue: **December 2002**

Reference Number: **FC 00 478**

Evolution in relation to the previous version of the manual

Modification list

The Accura calibration manual # FC 00478 merge the two calibration manuals for Accura Sx,CX,Pro (# FC 00 392) and Accura Lab, CI (# FC 00 384).

It also informs about the Accura programs V3.60 and V3.70 and Scanform 6 program V1.20.

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Accura series at a glance

List

This table explains the differences between the machines of the Accura series.

Type of machine	Serial #	Scanform	Visor	Blocker	Lens Feelers	Safety-Bevel/Groove	Screen	Counter-weight	Translation	Type of wheels	Edging speed
 N&B	0 → 2031	Scanform IV	Automatic	Electrical	Double	Yes	N&B	Mechanical	Rack	Normal	Normal
S	0 → 593	Scanform V	Manual	Manual	Simple	No	N&B	Software	Cable	Normal	Normal
Sx	593 →	Scanform V	Manual	Manual	Simple	No	N&B	Software	Cable	« Cheap »	Normal
C	2031 → 2742	Scanform IV	Automatic	Electrical	Double	Yes	Color	Mechanical	Cable	Normal	Normal
Cx	2742 →	Scanform IV or VI	Automatic	Electrical	Double	Yes	Color	Mechanical	Cable	Normal	Normal
Pro	2529 →	Scanform IV or VI	Automatic	Electrical	Double	Yes	Color	Mechanical	Cable	High Speed	Fast
 Lab	2171 →	N/A	Automatic	N/A	Double	Yes	Color	Mechanical	Cable	High Speed	Fast
CI	4627 →	N/A	Automatic	N/A	Double	Yes	Color	Mechanical	Cable	Normal	Normal

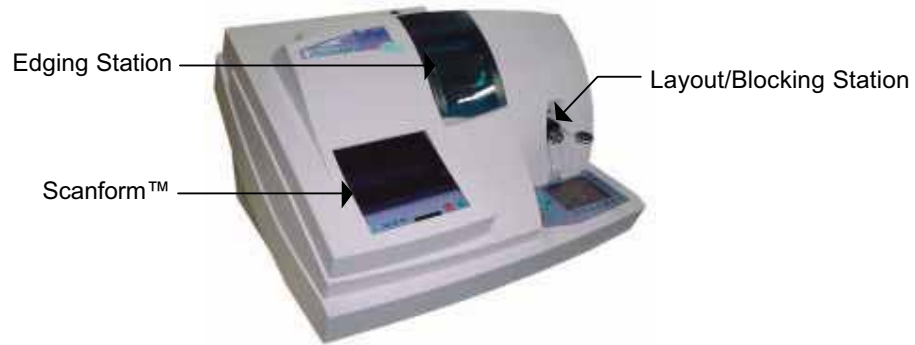
I INSTALLATION

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1 Main Controls and Components

Diagram

The following diagram shows you the main controls and components of your edger.



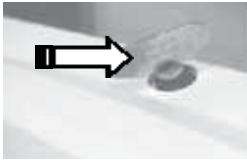
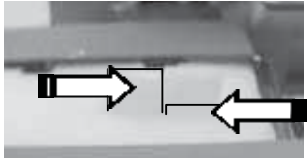

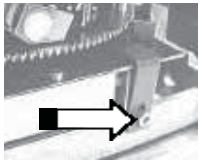
2 Unpacking the Machine

Warning

Please do not discard boxes or any of its packing contents.

Accura Sx, Cx, Pro




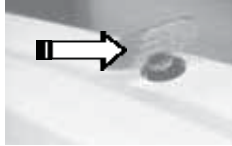
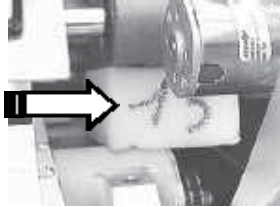
Follow the steps below to unpack your edger unit.

Step	Action	Illustration
Accura Scanform IV	1 Accura Scanform 4: 1. Remove the edger cover guard, by using the key contained in accessory box.	
	2. Remove the wedge (# 4) located at left side of the scanform™ stylus.	
	3. Push back the stylus point from right wedge.	
	4. Remove the wedge (# 6) located at the right side of the stylus.	
	5. Remove the upper wedge from the scanform™ then the lower wedge (# 7).	
	6. Remove the Allen screw from the red flange on the translation carriage.	
	7. Remove the carriage flange.	

2 Unpacking the Machine (continued)

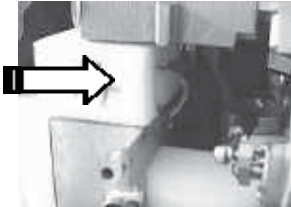

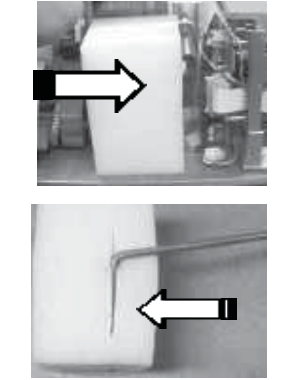
Accura Sx, Cx, Pro (continued)

Follow the steps below to unpack your edger unit.

Step	Action	Diagram
1 (continued)	Accura Scanform 6: 1. Remove the nose piece from the wedge inserted into the scanform.	
	2. Pull up carefully the scanform wedge.	
	3. Insert the centring nose piece into the scanform.	
	4. Remove the edger cover guard, by using the key contained in accessory box.	
2	Remove the wedge located between the chassis and the carriage.	


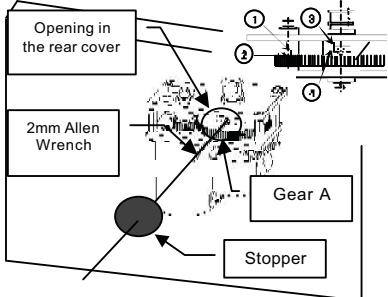
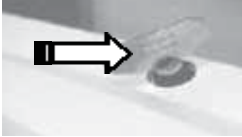
2 Unpacking the Machine (continued)

Accura Sx, Cx, Pro (continued)

Step	Action	Diagram
3	Remove the wedge of the lifting jack head.	
4	Loosen and remove the nut and the two washers of the threaded rod coming from the left of lifting jack.	
5	Remove the lifting jack wedge and its rod inserted in the translation tube.	

2 Unpacking the Machine (continued)



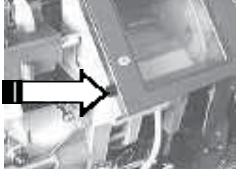

Accura Sx, Cx, Pro (continued)

Step	Action	Diagram
6	Remove the wedge located between the safety-level motor and the edging chamber.	
7	Remove the stopper located at the rear of the machine in order to get access to the concerned screw.	
8	Bring the carriage on the extreme left side (Operator located behind the machine).	
9	Check the set screw of the gear A is lined up with the hole. If not, turn the gear in order to get to this situation. <u>Important:</u> Before tightening the screw, the 1 & 2 marks on the small gear and 3&4 on the large gear must be lined up (make several turns if needed).	
10	Put a 2-mm Allen wrench into the screw.	
11	Tighten the screw strong.	
12	Put back the edger cover guard, by using the key contained in accessory box.	

2 Unpacking the Machine (continued)

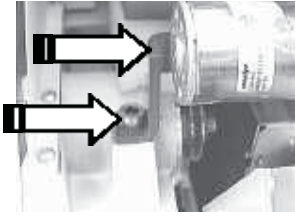
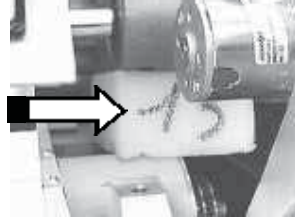
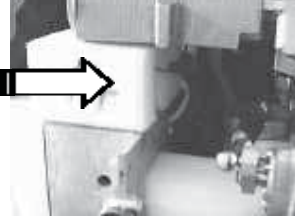

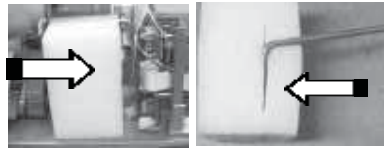
Accura Lab, CI

Follow the steps below to unpack your edger unit.

Step	Action	Illustration
1	Loosen the two Allen screws (4 mm wrench) located under the machine front side.	
2	Open the cover and mount the levers to keep the cover open.	
3	Loosen and remove the two back knurled screws located at left side of the keyboard.	
4	Tip up the keyboard towards the right.	




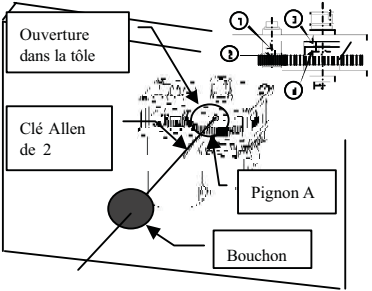
2 Unpacking the Machine (continued)

Accura Lab, CI (continued)

Step	Action	Illustration
5	Loosen and remove the Allen screw of the carriage shipping flange.	
6	Remove the carriage flange.	
7	Remove the wedge located between the chassis and the carriage.	
8	Remove the wedge from the top of the lifting jack.	
9	Loosen and remove the nut and the two washers of the threaded rod coming from the left of lifting jack.	
10	Remove the lifting jack wedge and its rod inserted in the translation tube.	


2 Unpacking the Machine (continued)

Accura Lab, CI (continued)

Step	Action	Illustration
11	Remove the wedge located between the safety-bevel motor and the edging chamber.	
12	Remove the wedge located in the edging chamber between the shafts and wheels.	
13	Close down the keypad and the two screws.	
14	Remove the stopper located at the rear of the machine in order to get access to the concerned screw.	
15	Bring the carriage on the extreme left side (Operator located behind the machine).	
16	Check the set screw of the gear A is lined up with the hole. If not, turn the gear in order to get to this situation. Important: Before tightening the screw, the 1 & 2 marks on the small gear and 3&4 on the large gear must be lined up (make several turns if needed).	
17	Put a 2-mm Allen wrench into the screw.	
18	Tighten the screw strong.	

2 Unpacking the Machine (continued)

Accura Lab, CI (continued)

Step	Action	Illustration
19	Close the main cover of the edger.	 A black and white photograph of a compact, boxy machine with a control panel on top and two legs at the bottom. The machine is shown from a three-quarter perspective, facing slightly to the right. The control panel has a screen and several buttons.

3 Installing the Machine

Safety Precautions Sx, Cx, Pro, Lab, CI

1. Before any operation on the machine (installation or servicing), check that main power switch is off and power plugs are both (Accura and inverter) not inserted in wall socket.
 2. Do not place the edger near or on top of a source of energy (radiator or heater).
 3. Make sure your voltage source corresponds to the voltage specified on edger nameplate, located **on the rear of the machine**.
 4. If the machine is not going to be used for a long period of time you should unplug the power cords from the wall outlet.
- **The external inverter for use with the Accura Pro or Lab must be the Listed Telemecanique Inverter, model ATV18U29M2 or Leroy Somer, model SE 2.5 M/TL BRE.**
 - **The inverter is delivered complete, with cables, plugs, strain relieves, correct configuration and tested by the manufacturer.**
 - **Please note that no field servicing is permitted for this unit.**

Briot does not assume any responsibilities or liabilities for damages caused by negligence or ignoring the safety precautions enlisted in this manual.

3 Installing the Machine (continued)

Installation Conditions

Before installing the machine, make sure the bench is made up of the following components:

1. Bench

The bench receiving the machine must steady and leveled and be made up of a foot print of about **800 x 700 mm (32"x28")**.

2. Electricity

- **Accura Sx, Cx, Cl:** 1 power outlet: **2P+T - 16 A - 220 V or 110 V** protected with differential breaker of **30 mA**. The outlet must be connected to the EARTH.
- **Accura Pro, Lab:** 2 power outlets: **2P+T - 16 A - 200 V–240 V** protected with differential breaker of **30 mA**. The outlets must be connected to the EARTH.

3. Water

- A water supply with a stop faucet equipped of a male connector 20x27 mm. This faucet must be kept for the machine and drilled at **80 cm** maximum from the place excepted for the machine. The access must be easy and the faucet must be turn off when the machine is not used.

For a good function of the machine, the maximum water supply pressure must be between 4 and 7 bar.

- A water drain pipe of \varnothing **80 mm** or higher. For proper drainage slope, angle pitch should be at least 5 %.
- **For machine type Polycarbonate**, provide a place under the machine with a minimum of **600w x 510h x 460d mm (24w" x 20h" x 18d")** to place the water container.

4. Pump

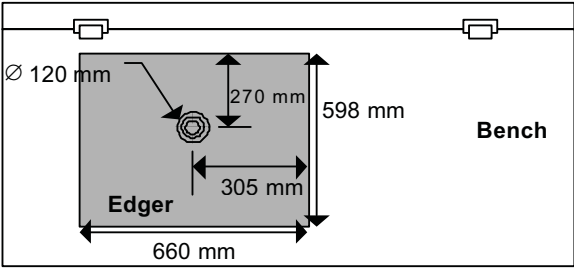
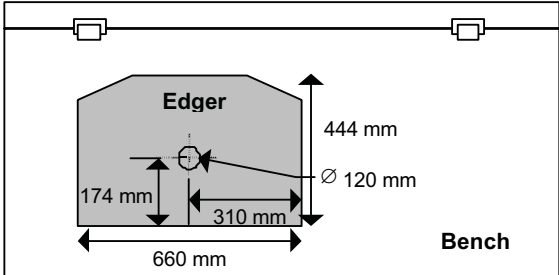
Briot supplies pump system especially made for required water supply to Accura and for filtering of the edging waste. The pump dimensions are as follows:

- Width: 600 mm (24")
- Depth: 400 mm (16")
- Height: 800 mm (32").

3 Installing the Machine (continued)

Bench Preparation

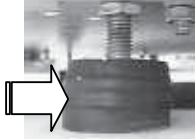



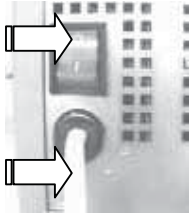
Follow the steps below to prepare the bench.

Step	Action
1	<p>Drill the bench as follows.</p> <ul style="list-style-type: none"> For Accura Sx, Cx, Pro:  For Accura Lab, CI: 
2	Drill the drain water hole(s).
3	For Accura Lab and Pro , fix the inverter on the wall at 1.3 m (at least) from the ground and away from water projection and spill (See <i>Installation of the bench</i> paragraph below).
4	Place the edger on the bench by positioning it in relation to the drilled holes.

3 Installing the Machine (continued)

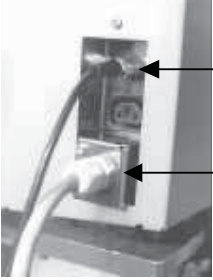

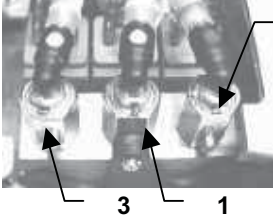
Installation

Follow the steps below to install the machine.

Step	Action	Diagram
1	Level the machine by screwing or unscrewing the four feet.	
2	Plug the drain pipe to the chassis of the machine.	
3	Connect the water hose to the machine and to the faucet or the pump. <u>Note:</u> In case of installation on direct water only , add a filter contained in the accessory box.	
4	Check that the main switch of the machine is on OFF position.	
5	Connect the machine to the power outlet.	

3 Installing the Machine (continued)

Installation (continued)

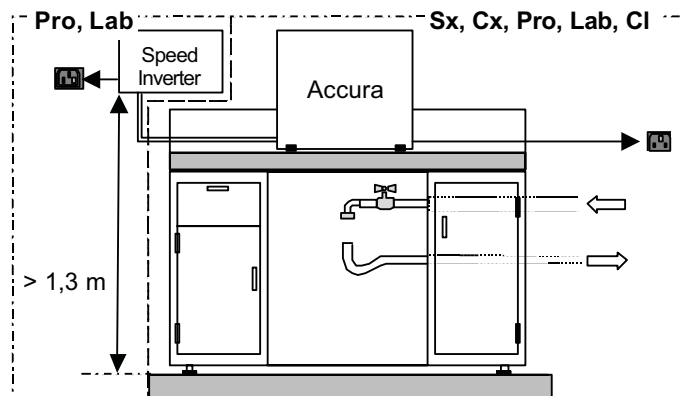
Step	Action	Diagram
6	<p>For Accura Pro & Lab, connect the inverter as follows:</p> <ol style="list-style-type: none"> 1. Connect the inverter control cable to the edger. 2. Connect the inverter power cable to the edger. 3. Fix the plate n° 11 22 165 (2x screws). 4. Fix the cable strain relief to secure the motor cable. 5. Check you are equipped with 2 power outlets 2P+T – 15 A – 200 V – 50/60 Hz. 6. Check the wall sockets are correctly EARTHED. 7. Check if the line is protected with a differential breaker of 30 mA. 8. Make sure that your power source corresponds to the voltage indicated in the edger's nameplate, located on the rear of the machine. 	 <p>Inverter Control Cable</p> <p>Inverter Power Cable</p>
7	<p>For OMA machines, connect the edger to the OMA network <u>and</u> connect the bar code reader.</p>	 <p>Bar Code Reader Connector</p> <p>OMA Network Connector</p>
8	<p>Mount the chucks and the centring nose piece (scanform) contained in the accessory box.</p>	-
9	<p>Remove the cover.</p>	-
10	<p>Adjust the water flow by starting a cycle without lens.</p>	-
11	<p>Adjust each watering by acting on 1-2 and 3 solenoid valves (see paragraph <i>Adjustments</i> below).</p>	 <p>2</p> <p>3</p> <p>1</p>
12	<p>Close the cover and make one or two jobs to check the good function of the machine.</p>	-

3 Installing the Machine (continued)

Adjustments

Types	Description
Main Water Spray (1)	<ul style="list-style-type: none"> Adjustable by operator. Must be sufficient to correctly lubricate the edging point.
Visor (2)	<ul style="list-style-type: none"> Not accessible by operator. Must be adjusted while installation.
Cleaning of the back of the edging station (Polycarbonate) (3)	<p>Must be adjusted as follows:</p> <ul style="list-style-type: none"> Water spray must be enough to remove the polycarbonate dust that hit the back of edging station (near the feelers). Water spray must not be too high to avoid a mist creation that can moisten the TP roughing wheel and create an undesired edging "in ribbon" of polycarbonate.

Installation of the bench

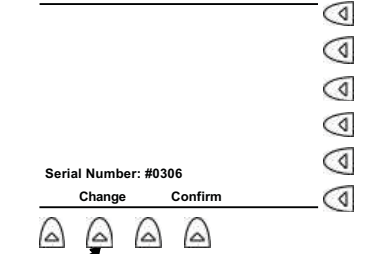
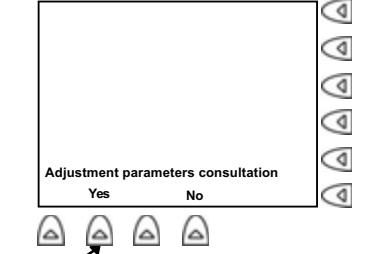
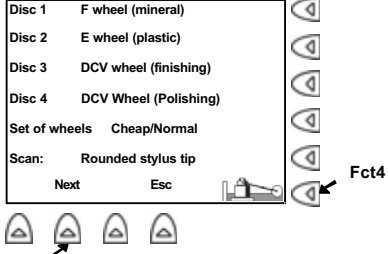


3 Installing the Machine (continued)

Pump Absence/Presence Setting Sx



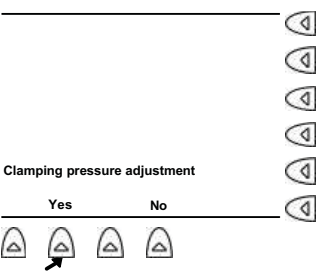
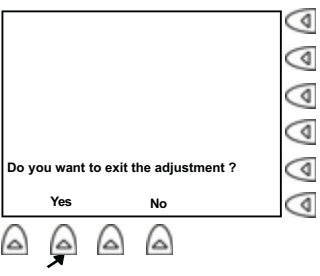
Accura Sx must be informed about water supply method (direct or pump supply) for optimum working of the wheels motor (power management).

Follow the steps below to set the pump.

Step	Action	Diagram
1	Switch off the machine.	-
2	Press the 1 key while you switch on the edger until the initialisation screen comes up. <u>Result:</u> The machine is initialising and the following screen comes up.	
3	Access to the following adjustment dialogue.	
4	Press the Yes key. <u>Result:</u> The following screen comes up.	

3 Installing the Machine (continued)

Pump Absence/Presence Setting Sx (continued)

Step	Action	Diagram
5	Press the FCT4 to set the water supply mode. <ul style="list-style-type: none"> •  Water Supply by Pump •  Direct Water Supply 	-
6	Press the Next key until the following screen comes up.	
7	Press the No key until the following screen comes up.	
8	Press the Yes key to quit the Technician adjustment dialog box.	-

II SETTING

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






















































1 Frame Correction Adjustment

Condition

To adjust the frame correction, the machine must be in rest position (not in scanning or edging process).

Procedure

Follow the steps below to adjust the frame correction.

Step	Action																																																												
1	Press simultaneously the  and  keys. (For the Accura Sx, Cx, Pro, make sure you have selected the tracing menu (blue).)																																																												
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7	Press the  key to get back to the working mode.																																																												







2 Edging Wheel Differential Adjustment

Condition

To adjust the wheel differentials, the system must be in rest position (not in scanning or edging process).

Procedure

Follow the steps below to adjust edging wheel differentials.

Step	Action																																						
1	Press simultaneously the  and  keys. (For the Accura Sx, Cx, Pro, make sure you have selected the tracing menu (blue).)																																						
2	<p>Press the  key twice.</p> <p><u>Result:</u> According to the type of machine, the following screen comes up.</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="386 856 768 1161" style="border: 1px solid black; padding: 5px;"> <p>Cx, Pro, Lab, CI</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Metal frame correction</td><td style="text-align: right;">+00.00</td></tr> <tr><td>Plastic frame correction</td><td style="text-align: right;">+00.30</td></tr> <tr><td>Optyl frame correction</td><td style="text-align: right;">+00.50</td></tr> <tr><td colspan="2"> </td></tr> <tr><td>Roughing differential before Bv</td><td style="text-align: right; background-color: #e0e0e0;">+01.20</td></tr> <tr><td>Roughing differential before Rim</td><td style="text-align: right;">+02.00</td></tr> <tr><td>Roughing differential before Pol.</td><td style="text-align: right;">+00.20</td></tr> <tr><td colspan="2"> </td></tr> <tr><td>Final size correction</td><td style="text-align: right;">- 00.10</td></tr> <tr><td>Plastic correction</td><td style="text-align: right;">+00.00</td></tr> <tr><td>Polycarbonate correction</td><td style="text-align: right;">- 00.10</td></tr> <tr><td>Pattern correction</td><td style="text-align: right;">+00.00</td></tr> </table> </div> <div data-bbox="922 856 1320 1161" style="border: 1px solid black; padding: 5px;"> <p>Sx</p> <p style="text-align: center;">SCANFORM ACCURA # 0108 V01.00</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Roughing differential before BVL</td><td style="text-align: right;">+01.20</td></tr> <tr><td>Roughing differential before RIM</td><td style="text-align: right;">+02.00</td></tr> <tr><td>Roughing differential before POL</td><td style="text-align: right;">+00.20</td></tr> <tr><td colspan="2"> </td></tr> <tr><td>User's language : English</td><td></td></tr> <tr><td colspan="2"> </td></tr> <tr><td>Aesthetism control : Enable</td><td></td></tr> </table> </div> </div>	Metal frame correction	+00.00	Plastic frame correction	+00.30	Optyl frame correction	+00.50			Roughing differential before Bv	+01.20	Roughing differential before Rim	+02.00	Roughing differential before Pol.	+00.20			Final size correction	- 00.10	Plastic correction	+00.00	Polycarbonate correction	- 00.10	Pattern correction	+00.00	Roughing differential before BVL	+01.20	Roughing differential before RIM	+02.00	Roughing differential before POL	+00.20			User's language : English				Aesthetism control : Enable	
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3	Press the  key until the appropriate value is highlighted.																																						
4	Enter the value of the desired wheel differential aid of the keypad.																																						
5	Press the  key to validate your entry.																																						
6	Go to the step 3 of this procedure until you adjust all the necessary wheel differentials.																																						
7	Press the  key to get back to the working mode.																																						

































































3 General Size Correction Adjustment

Condition

To adjust general sizes, the machine must be at rest neither in tracing nor edging process).


Procedure

Follow the steps below to adjust general size correction

Step	Action																																																												
1	Press simultaneously the  and  keys. (For the Accura Sx, Cx, Pro, make sure you have selected the tracing menu (blue).)																																																												
2	<p>Press the  key twice.</p> <p><u>Result:</u> According to the type of machine, the following screen comes up.</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>Cx, Pro, Lab, CI</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Metal frame correction</td><td style="text-align: right;">+00.00</td><td style="text-align: center;"></td></tr> <tr><td>Plastic frame correction</td><td style="text-align: right;">+00.30</td><td style="text-align: center;"></td></tr> <tr><td>Optyl frame correction</td><td style="text-align: right;">+00.50</td><td style="text-align: center;"></td></tr> <tr><td colspan="3"> </td></tr> <tr><td>Roughing differential before Bvl</td><td style="text-align: right;">+01.20</td><td style="text-align: center;"></td></tr> <tr><td>Roughing differential before Rim</td><td style="text-align: right;">+02.00</td><td style="text-align: center;"></td></tr> <tr><td>Roughing differential before Pol.</td><td style="text-align: right;">+00.20</td><td style="text-align: center;"></td></tr> <tr><td colspan="3"> </td></tr> <tr><td>Final size correction</td><td style="text-align: right; background-color: #cccccc;">-00.10</td><td style="text-align: center;"></td></tr> <tr><td>Plastic correction</td><td style="text-align: right;">+00.00</td><td style="text-align: center;"></td></tr> <tr><td>Polycarbonate correction</td><td style="text-align: right;">- 00.10</td><td style="text-align: center;"></td></tr> <tr><td>Pattern correction</td><td style="text-align: right;">+00.00</td><td style="text-align: center;"></td></tr> </table> <p style="text-align: center;">   </p> </div> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>Sx</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Metal frame correction</td><td style="text-align: right;">+00.00</td><td style="text-align: center;"></td></tr> <tr><td>Plastic frame correction</td><td style="text-align: right;">+00.30</td><td style="text-align: center;"></td></tr> <tr><td>Optyl frame correction</td><td style="text-align: right;">+00.50</td><td style="text-align: center;"></td></tr> <tr><td colspan="3"> </td></tr> <tr><td>Final size correction</td><td style="text-align: right; background-color: #cccccc;">-00.10</td><td style="text-align: center;"></td></tr> <tr><td>Plastic correction</td><td style="text-align: right;">+00.00</td><td style="text-align: center;"></td></tr> <tr><td>Polycarbonate correction</td><td style="text-align: right;">-00.05</td><td style="text-align: center;"></td></tr> <tr><td>Pattern correction</td><td style="text-align: right;">-00.10</td><td style="text-align: center;"></td></tr> </table> <p style="text-align: center;">   </p> </div> </div>	Metal frame correction	+00.00		Plastic frame correction	+00.30		Optyl frame correction	+00.50					Roughing differential before Bvl	+01.20		Roughing differential before Rim	+02.00		Roughing differential before Pol.	+00.20					Final size correction	-00.10		Plastic correction	+00.00		Polycarbonate correction	- 00.10		Pattern correction	+00.00		Metal frame correction	+00.00		Plastic frame correction	+00.30		Optyl frame correction	+00.50					Final size correction	-00.10		Plastic correction	+00.00		Polycarbonate correction	-00.05		Pattern correction	-00.10	
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6	Use the size table below go to the step 3 of this procedure until you completed the size adjustment.																																																												

3 General Size Correction Adjustment (continued)



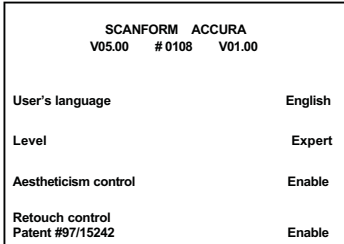
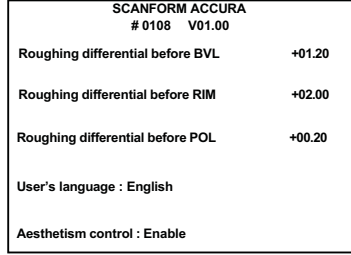


Procedure (continued)

Step	Action	
6 (continued)	Correction	Description
	<i>Final size correction</i>	Final lens size correction for frame scanning. <u>Note</u> : This correction affects all finishing programs for all materials but polycarbonate Differences between finishing wheels due to wear are set in the adjustment <i>Sizes and lifting jack offset</i>.
	<i>Plastic correction</i>	Final size correction <u>added</u> to "FINAL SIZE CORRECTION" for plastic lenses (but Polycarbonate). This correction is between 0 and 0.2 mm . Reminder: Accura edges lenses on size without distinction of material (plastic or glass, but Polycarbonate). This line: <ul style="list-style-type: none"> • Must be equal to 0 when the machine is normally adjusted. • Is used for compensating the shrinking of plastic lenses <u>in time</u>. • Must not be used to correct a glass/plastic size difference. If yes you must redo the sizes.
	<i>Polycarbonate correction</i>	Final size correction added to "FINAL SIZE CORRECTION" for Polycarbonate lenses only. The polycarbonate correction may be different to zero. It's because of the special behaviour of Polycarbonate material during edging. It does not react same as Glass or Plastic material that's why we have to do this correction.
	<i>Pattern correction</i>	Final lens size correction for pattern scanning. <u>Note</u> : This correction affects all finishing programs for all materials. Differences between finishing wheels due to wear are set in the adjustment <i>Sizes and lifting jack offset</i> .
7	Press the  key until you get back to normal operation mode.	

4 User's Language Selection

Procedure

Follow the steps below to select the language.

Step	Action																				
1	<p>Press simultaneously the  and  keys. (For the Accura Sx, Cx, Pro, make sure you have selected the tracing menu (blue).)</p> <p><u>Result:</u> According to the type of machine, the following screen comes up.</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="397 609 738 955"> <p>Cx, Pro, Lab, CI</p>  </div> <div data-bbox="885 609 1234 955"> <p>Sx</p>  </div> </div>																				
2	<p>Press the  key facing the line <i>User's language: English</i> until you display the desired language (18 languages possible).</p> <p>Level of translation according to the selected language.</p> <table border="1" data-bbox="381 1123 1339 1470"> <thead> <tr> <th>Language</th> <th>Operation</th> <th>Warning & messages</th> <th>Claibration menu</th> </tr> </thead> <tbody> <tr> <td>French</td> <td>French</td> <td>French</td> <td>French</td> </tr> <tr> <td>English</td> <td>English</td> <td>English</td> <td>English</td> </tr> <tr> <td>German, Italian, Spanish</td> <td>German, Italian, Spanish</td> <td>German, Italian, Spanish</td> <td>English</td> </tr> <tr> <td>Other languages</td> <td>Selected language</td> <td>English</td> <td>English</td> </tr> </tbody> </table>	Language	Operation	Warning & messages	Claibration menu	French	French	French	French	English	English	English	English	German, Italian, Spanish	German, Italian, Spanish	German, Italian, Spanish	English	Other languages	Selected language	English	English
Language	Operation	Warning & messages	Claibration menu																		
French	French	French	French																		
English	English	English	English																		
German, Italian, Spanish	German, Italian, Spanish	German, Italian, Spanish	English																		
Other languages	Selected language	English	English																		
3	<p>Press twice the  key to get back to the working mode.</p>																				
4	<p>Switch the machine off then on to confirm the language change.</p>																				

5 Use Level Selection Cx, Pro, Lab, CI



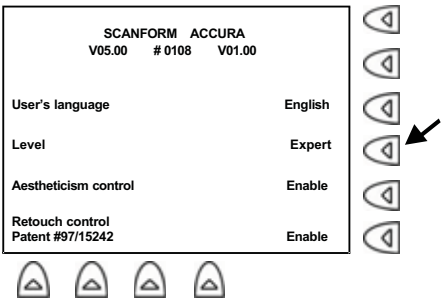


2 Levels

Accura Cx, Pro is equipped with two use levels.

Level	Using Type
Expert (Default)	Will activate all functions of the machine.
Novice	Will deactivate some functions of the machine for a simpler use by beginner.

Procedure

Follow the steps below to select using level.

Step	Action
1	<p>Press simultaneously the  and  keys. (For the Accura Sx, Cx, Pro, make sure you have selected the tracing menu (blue).)</p> <p><u>Result:</u> The following screen comes up.</p> <div style="text-align: center;">  </div>
2	Press the  key facing the line <i>Level</i> until you display <i>Expert</i> or <i>Novice</i> .
3	Press twice the  key to get back to the working mode.



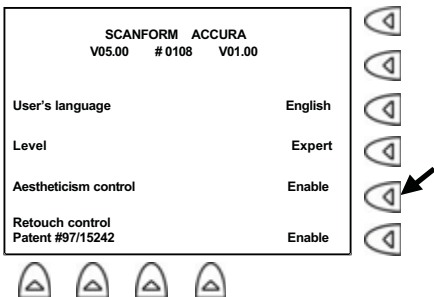
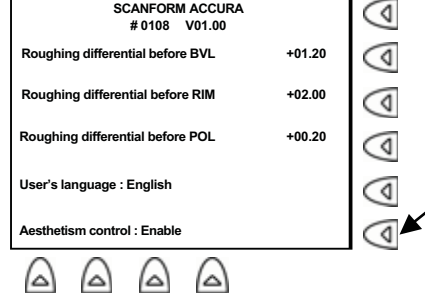


6 Enable/Disable the Aestheticism Control

Description

- If *expert bevel* has been selected, the machine performs a control of the bevel placement and alerts if the calculated bevel may result as a non-aesthetic glazing.
- In that case, the edger displays the warning message "Aestheticism" and switch to the bevel control screen for an eventual modification of the base curve and/or the bevel position by the operator.
- For Accura **Cx, Pro, Lab or CI**, this control is also performed in case of *expert grooving* selection.
- It is possible to enable or disable the automatic control with the following procedure.

Procedure

Follow the steps below to enable/disable the Aestheticism test.

Step	Action
1	<p>Press simultaneously the  and  keys. (For the Accura Sx, Cx, Pro, make sure you have selected the tracing menu (blue).)</p> <p><u>Result:</u> According to the type of machine, the following screen comes up.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Cx, Pro, Lab, CI</p>  </div> <div style="text-align: center;"> <p>Sx</p>  </div> </div>
2	<p>Press the  key facing the line <i>Aestheticism control</i> until you display <i>Enable</i> or <i>Disable</i>.</p>
3	<p>Press twice the  key to get back to the working mode.</p>



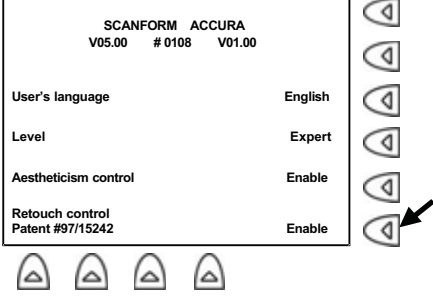


7 Enable/Disable the Retouch Control Cx, Pro, Lab, CI

Introduction

- The retouch control is a test procedure patented by Briot. When this system is activated, and when a lens retouch is programmed, the machine tests the lens in the machine is effectively the lens to retouch.
- This procedure increases the security control on the lens but also the process time. You can enable or disable this test.

Procedure



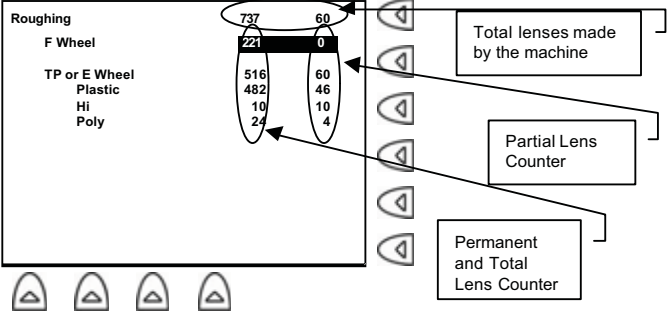



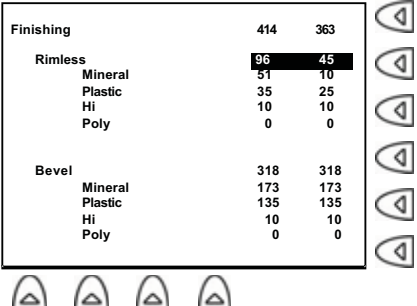
Follow the steps below to enable/disable the retouch control test.

Step	Action
1	<p>Press simultaneously the  and  keys. (For the Accura Sx, Cx, Pro, make sure you have selected the tracing menu (blue).)</p> <p><u>Result:</u> According to the type of machine, the following screen comes up.</p> <div style="text-align: center;">  </div>
2	<p>Press the  key facing the line <i>Retouch control</i> until you display <i>Enable</i> or <i>Disable</i>.</p>
3	<p>Press twice the  key to get back to the working mode.</p>

8 Wheel Counters Consultation









Procedure

Follow the steps below to consult the wheel counters.

Step	Action
<p>1</p>	<p>Press simultaneously the  and  keys. (For the Accura Sx, Cx, Pro, make sure you have selected the tracing menu (blue).)</p> <p><u>Result:</u> The following screen comes up.</p> 
<p>2</p>	<p>To reset select the lens counter, with the  key and press the  key.</p> <p><u>Result:</u> The partial counter is resetting. The total counter does not change.</p>
<p>3</p>	<p>Press the  key.</p> <p><u>Result:</u> The following screen comes up.</p> 


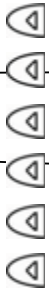




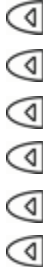


8 Wheel Counters Consultation (continued)

Procedure (continued)

Step	Action																																												
4	<p>To reset select the lens counter, with the  key and press the  key.</p>																																												
5	<p>Press the  key.</p> <p><u>Result:</u> The following screen comes up.</p> <div data-bbox="509 617 922 928" style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Polishing</td> <td style="width: 15%; text-align: right;">190</td> <td style="width: 15%; text-align: right;">180</td> <td style="width: 30%;"></td> </tr> <tr> <td> Rimless</td> <td style="text-align: right;">45</td> <td style="text-align: right;">35</td> <td></td> </tr> <tr> <td> Plastic</td> <td style="text-align: right;">35</td> <td style="text-align: right;">25</td> <td></td> </tr> <tr> <td> Hi</td> <td style="text-align: right;">10</td> <td style="text-align: right;">10</td> <td></td> </tr> <tr> <td> Poly</td> <td style="text-align: right;">0</td> <td style="text-align: right;">0</td> <td></td> </tr> <tr> <td> Bevel</td> <td style="text-align: right;">145</td> <td style="text-align: right;">145</td> <td></td> </tr> <tr> <td> Plastic</td> <td style="text-align: right;">135</td> <td style="text-align: right;">135</td> <td></td> </tr> <tr> <td> Hi</td> <td style="text-align: right;">10</td> <td style="text-align: right;">10</td> <td></td> </tr> <tr> <td> Poly</td> <td style="text-align: right;">0</td> <td style="text-align: right;">0</td> <td></td> </tr> </table> </div>	Polishing	190	180		Rimless	45	35		Plastic	35	25		Hi	10	10		Poly	0	0		Bevel	145	145		Plastic	135	135		Hi	10	10		Poly	0	0									
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8	<p>To reset select the lens counter, with the  key and press the  key.</p>																																												

8 Wheel Counters Consultation (continued)

Procedure (continued)

Step	Action																																				
9	<p>Press the  key.</p> <p><u>Result:</u> The following screen comes up for Accura Cx, Pro, Lab or Cl.</p> <div style="display: flex; align-items: center;"> <table border="1" data-bbox="509 583 899 869" style="margin-right: 20px;"> <thead> <tr> <th>Groove</th> <th>64</th> <th>20</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>60</td> <td>19</td> </tr> <tr> <td>Plastic</td> <td>43</td> <td>9</td> </tr> <tr> <td>Hi</td> <td>10</td> <td>10</td> </tr> <tr> <td>Poly</td> <td>7</td> <td>0</td> </tr> <tr> <td>Double</td> <td>4</td> <td>1</td> </tr> </tbody> </table> <div style="margin-left: 20px;">  <div style="border: 1px solid black; padding: 5px; margin-top: 10px; width: fit-content;">Groove Number in simple width (Nylon wire)</div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; width: fit-content;">Groove Number in double width (Air-Titanium Type)</div> </div> </div> <div style="margin-top: 10px; display: flex; justify-content: center; gap: 10px;">  </div>	Groove	64	20	Total	60	19	Plastic	43	9	Hi	10	10	Poly	7	0	Double	4	1																		
Groove	64	20																																			
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10	<p>To reset select the lens counter, with the  key and press the  key.</p>																																				
11	<p>Press the  key.</p> <p><u>Result:</u> The following screen comes up.</p> <div style="display: flex; align-items: center;"> <table border="1" data-bbox="509 1134 873 1398" style="margin-right: 20px;"> <tbody> <tr> <td>Retouch</td> <td>7</td> <td>7</td> </tr> <tr> <td>Rimless</td> <td>0</td> <td>0</td> </tr> <tr> <td> Mineral</td> <td>0</td> <td>0</td> </tr> <tr> <td> Plastic</td> <td>0</td> <td>0</td> </tr> <tr> <td> Hi</td> <td>0</td> <td>0</td> </tr> <tr> <td> Poly</td> <td>0</td> <td>0</td> </tr> <tr> <td>Bevel</td> <td>7</td> <td>7</td> </tr> <tr> <td> Mineral</td> <td>3</td> <td>3</td> </tr> <tr> <td> Plastic</td> <td>3</td> <td>3</td> </tr> <tr> <td> Hi</td> <td>1</td> <td>1</td> </tr> <tr> <td> Poly</td> <td>0</td> <td>0</td> </tr> <tr> <td>Retouch rate</td> <td>0 %</td> <td>0 %</td> </tr> </tbody> </table> <div style="margin-left: 20px;">  </div> </div> <div style="margin-top: 10px; display: flex; justify-content: center; gap: 10px;">  </div>	Retouch	7	7	Rimless	0	0	Mineral	0	0	Plastic	0	0	Hi	0	0	Poly	0	0	Bevel	7	7	Mineral	3	3	Plastic	3	3	Hi	1	1	Poly	0	0	Retouch rate	0 %	0 %
Retouch	7	7																																			
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Plastic	3	3																																			
Hi	1	1																																			
Poly	0	0																																			
Retouch rate	0 %	0 %																																			
12	<p>Press the  key to come back to the working mode.</p>																																				

9 Scanform VI Configuration Cx, Pro

Introduction

If the Accurat Cx, Pro (Serial number ≥ 6250) is equipped with a scanform VI, this unit must also be configured.

Please refer to Chapter IV *Scanform™ Station Calibration* for the scanform VI set-up.

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1 Encoders Adjustment

Goal

The goal of encoder's adjustment is to put each encoder reference (top 0) in optimum position in order to be used in optimum conditions by the machine.

Warning: The encoders adjustment must be done if this one has been changed or if its position moved.
A main circuit board replacement does not need any encoder adjustment.

Encoder Types

The following table describes the different encoders to adjust.

Encoder	Description
<i>Translation</i>	Translation left/right sensor (landing points)
<i>Lens Rotation</i>	Lens angular position sensor (axis)
<i>Lifting Jack</i>	Lifting jack movement sensor (sizes and shape)

Adjustment Access

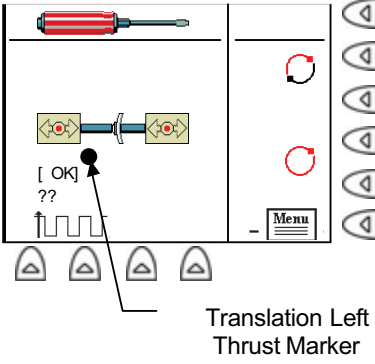
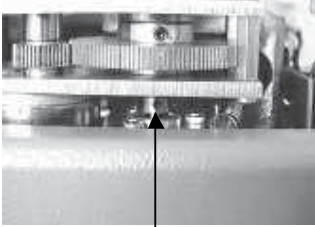
Follow the steps below to access to coder adjustment.

Step	Action
1	Switch off the edger.
2	Hold the 2 key while you switch on the edger. <u>Result:</u> The translation encoder adjustment screen comes up.
3	See one of the following paragraphs according to the encoder to adjust. <ul style="list-style-type: none"> • Translation Encoder Adjustment. • Rotation Encoder Adjustment • Lifting Jack Encoder Adjustment.

1 Encoders Adjustment (continued)



Translation Encoder Adjustment Sx, Cx, Pro, Lab, CI

Follow the steps below to adjust the translation encoder of Accura Sx, Cx, Pro, Lab or CI.

Step	Action	Diagram
1	Hold the 2 key while you switch on the edger. <u>Result:</u> The following screen comes up.	 <p>Translation Left Thrust Marker</p>
2	Push the carriage completely to the left side position.	-
3	Push the carriage completely to the right side position.	-
4	Loosen the translation encoder screw with an Allen key.	 <p>Translation Encoder Screw</p>
5	Make a complete rotation of the encoder shaft to initialise it. <u>Result:</u> The question marks ?? disappear from the screen.	-


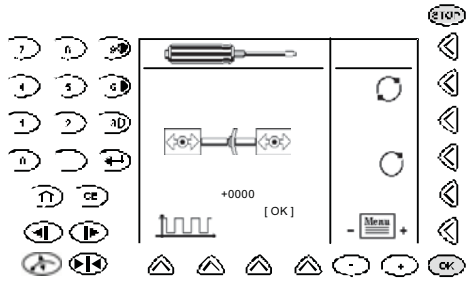
1 Encoders Adjustment (continued)

Translation Encoder Adjustment Sx, Cx, Pro, Lab, CI (continued)

Step	Action	Diagram
6	Turn the translation encoder shaft until a value between - 3700 and - 3750 reads on the screen.	 <p>Screwdriver</p>
7	Tighten the encoder shaft. <u>Result:</u> The translation encoder adjustment is finished.	-
8	IF you wish to...	THEN...
	Go to the next encoder adjustment	Press the  key.
	Stop the adjustment	Switch off the machine.

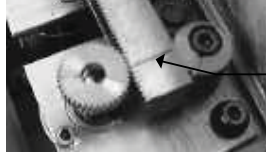
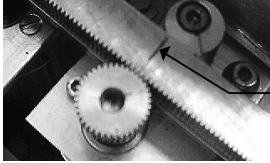
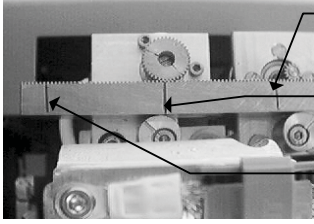

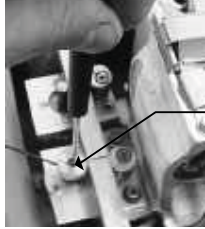
Translation Encoder Adjustment for B&W (machine # 001 to 2031)

Follow the steps below to adjust the translation encoder of Accura B&W.

Step	Action	Diagram
1	Hold the  key while you switch on the edger. <u>Result:</u> The following screen comes up.	
2	Push the carriage completely to the left side position.	-
3	Draw a line on the rack gear.	-


1 Encoders Adjustment (continued)

Translation Encoder Adjustment for B&W (machine # 001 to 2031) (continued)

Step	Action	Diagram
4	Push the carriage completely to the right side position.	-
5	Draw a line on the rack.	 Line on the rack
6	Measure the distance between the two lines.	-
7	Divide the distance value by 2.	-
8	Draw a line on the rack to define the middle position.	 Line on the rack
9	Place the encoder gear facing the middle line.	 Right Line Middle Line Left Line
10	Loosen the translation encoder gear set screw.	 Translation Gear Middle Line
11	Turn the encoder shaft (a complete rotation), with a screwdriver until displaying 0000 ± 4 points (beep sound).	 Encoder Shaft



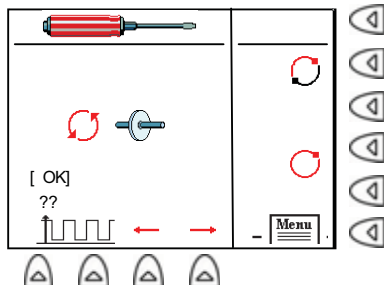
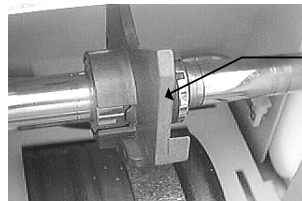

1 Encoders Adjustment (continued)

Translation Encoder Adjustment for B&W (machine # 001 to 2031) (continued)

Step	Action	Diagram
12	Tighten the gear set screw.	-
13	IF you wish to...	THEN...
	Go to the next encoder adjustment	Press the  key.
	Stop the adjustment	Switch off the machine.










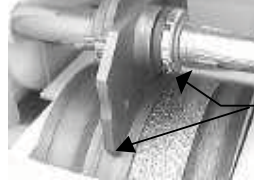
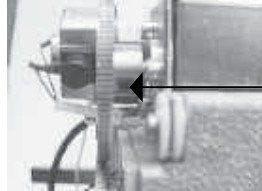
Rotation Encoder Adjustment Sx, Cx, Pro, Lab, CI

Follow the steps below to adjust the rotation encoder of Accura Sx, Cx, Pro, Lab or CI.

Step	Action	Diagram
1	Hold the  key while you switch on the edger.	-
2	Press on the  key until the following screen comes up.	
3	Put the adjustment tool # 14 04 199 on left side adapter.	 <p>Tool 14 04 199</p>
4	Press the  key to close the lens chuck.	-

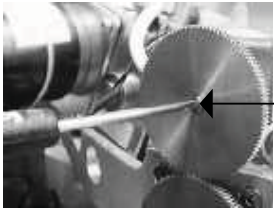

1 Encoders Adjustment (continued)

Rotation Encoder Adjustment Sx, Cx, Pro, Lab, CI (continued)

Step	Action	Diagram
5	Press simultaneously the  +  keys to make a complete revolution to initialize the <i>Rotation</i> encoder (beep sound).	-
6	Press the  +  and/or  +  keys to adjust the tool points down to the wheels.	-
7	Turn manually the lifting jack gear to position the tool onto the wheels.	 Gear
8	Press the  and/or  keys to adjust the tool position in order that the tool points are simultaneously sitting on the rimless wheel.	-
9	Make sure you hold the carriage by hand to prevent shaft twisting by its weight.	 Tool Points
10	Loosen the set screw of the <i>Rotation</i> encoder gear.	 Screw



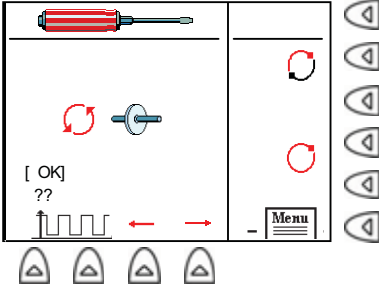
1 Encoders Adjustment (continued)

Rotation Encoder Adjustment Sx, Cx, Pro, Lab, CI (continued)

Step	Action	Diagram
11	Turn the encoder shaft (complete rotation), with an optician's screwdriver, until displaying 0000 ± 4 points (beep sound).	
12	Tighten the gear set screw.	-
13	IF you wish to...	THEN...
	Go to the next encoder adjustment	Press the  key.
	Stop the adjustment	Switch off the machine.

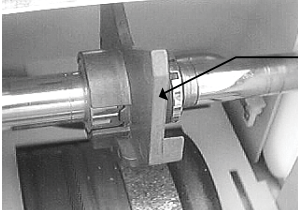








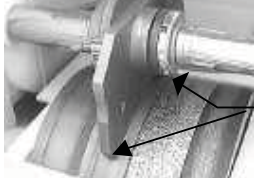

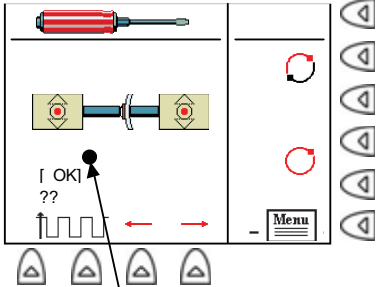
Lifting Jack Encoder Adjustment Sx, Cx, Pro, Lab, CI

Follow the steps below to adjust the lifting jack encoder of Accura Sx, Cx, Pro, Lab or CI.

Step	Action	Diagram
1	Hold the  key while you switch on the edger.	-
2	Press on the  key until the following screen comes up.	


1 Encoders Adjustment (continued)

Lifting Jack Encoder Adjustment Sx, Cx, Pro, Lab, CI (continued)

Step	Action	Diagram
3	Put the adjustment tool # 14 04 199 on left side adapter.	 <p>Tool 14 04 199</p>
4	Press the  key to close the lens chuck.	-
5	Press the  +  and/or  +  keys to adjust the tool points down to the wheels.	 <p>Gear</p>
6	Turn manually the lifting jack gear to position the tool onto the wheels.	
7	Press the  and/or  keys to adjust the tool position in order that the tool points are simultaneously sitting on the rimless wheel.	 <p>Tool Points</p>
8	Press the  key.	 <p>Lifting jack contact plate</p>

1 Encoders Adjustment (continued)

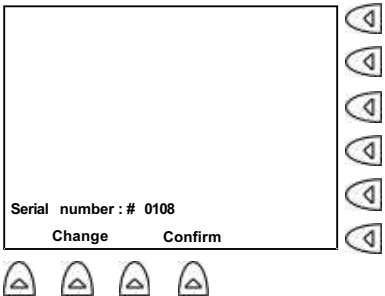
Lifting Jack Encoder Adjustment Sx, Cx, Pro, Lab, CI (continued)

Step	Action	Diagram
9	Turn manually the lifting jack gear to bring the lifting jack at the limit of the carriage/lifting jack contact. <u>Note:</u> The contact can be checked thanks to the symbol indicated above.	-
10	Remove the lifting jack cover guard.	-
11	Loosen the set screw of the lifting jack encoder gear.	-
12	Turn the encoder shaft (a complete rotation), with an optician's screwdriver, in order to initialize the encoder.	-
13	Keep on turning the encoder shaft until displaying 0000 ± 4 points (beep sounds).	-
14	Tighten the lifting jack gear set screw.	-
15	Press the  key to open the lens clamping.	-
16	Remove the tool adjustment n° 14 04 199 (making the carriage lighter).	-
17	Put the lifting jack cover guard.	-

2 Edger Adjustments

Access/Working

Follow the steps below to access to the edger adjustment dialogue.

Step	Action
1	Switch the edger off.
2	<p>Hold the 1 key while you switch on the edger until the initialisation screen comes up.</p> <p><u>Result:</u> The machine is initialising and the following screen comes up:</p> 

Structure/Progress

The adjustment structure of the edger structures according to the following sequence:

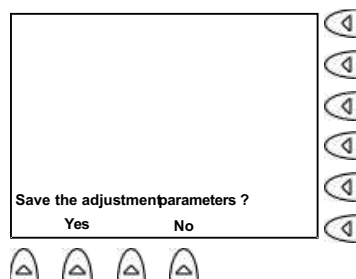
Order	Adjustment	Machines
1	Machine serial number update	Sx, Cx, Pro, Lab, Cl
2	Enable/disable the upload function (OMA configuration only)	Sx, Cx, Pro, Lab, Cl
3	Machine type configuration	Cx
4	Stylus tip configuration	Cx, Pro
5	Stylus tip configuration	Sx
6	Frame axis rectification configuration	Cx, Pro
7	Enable/disable the temperature compensation	Cx, Pro, Lab, Cl

2 Edger Adjustments (continued)

Structure/Progress (continued)

Order	Adjustment	Machines
8	Disable/enable temperature compensation	Pro, Lab
9	Adjustment parameters consultation	Sx, Cx, Pro, Lab, Cl
10	Clamping pressure Adjustment	Sx, Cx, Pro, Lab, Cl
11	Carriage landing position	Sx, Cx, Pro, Lab, Cl
12	Lens feelers adjustment	Sx, Cx, Pro, Lab, Cl
13	Lifting jack gain adjustment	Sx, Cx, Pro, Lab, Cl
14	Lens sizes adjustment	Sx, Cx, Pro, Lab, Cl
15	Blocker center and axis adjustment	Sx, Cx, Pro, Lab, Cl
16	Axis adjustment	Sx, Cx, Pro, Lab, Cl
17	Safety bevel landing points	Cx, Pro, Lab, Cl
18	Groove landing points	Cx, Pro, Lab, Cl
19	Safety bevel and groove adjustment	Cx, Pro, Lab, Cl

- A complete calibration of the machine means doing all these calibrations in this order.
- Each calibration can be performed independently to calibrate only one component of the machine (Ex: lens feelers adjustment to calibrate only the lens feelers system).
- After each calibration ,the machine asks whether the operator wants to save the calibration with the following screen:

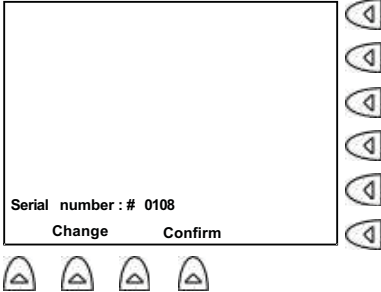


Press on **Yes** to save the calibration parameters or **No** to go to the next calibration, without changing the parameters of the performed calibration.

3 Machine Serial Number Update

Procedure

Follow the steps below to update the machine serial number.

Step	Action
1	<p>Access to the adjustment dialogue.</p> <p><u>Result:</u> The initialisation is in progress then the following screen comes up.</p> 
2	<p>Press the Change key.</p> <p><u>Result:</u> The serial number of the machine displays in reversed colours.</p>
3	<p>Enter the serial number aid of the keypad (see the firm plate located at the rear of the machine).</p>
4	<p>Press the Confirm key to validate the serial number and/or access to the following adjustment.</p>

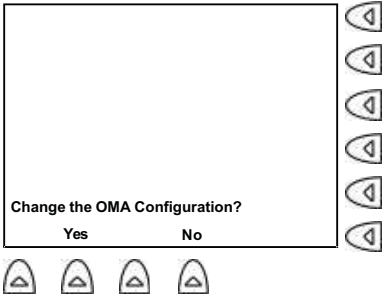
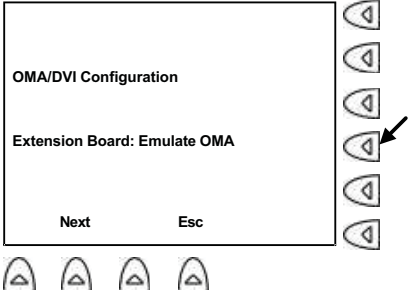
4 Network Emulation Configuration (OMA/DVI)

Restriction

This function exists only in the case the machine is equipped with an extension circuit board including an OMA Eprom.

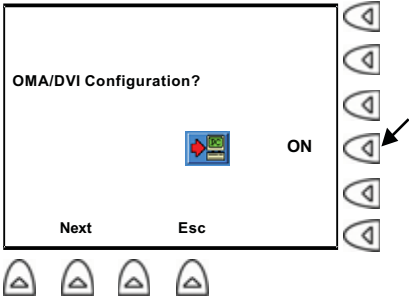
Procedure

Follow the steps below to configure the network (OMA/DVI).

Step	Action
1	<p>Access to the following screen of the adjustment menu.</p> 
2	<p>Press on the Yes key to configure the emulation.</p> <p><u>Result:</u> The following screen comes up.</p> 
3	<p>Press on the indicated key to display OMA or DVI according to the configuration you wish.</p>

4 Network Emulation Configuration (OMA/DVI) (continued)











Procedure (continued)

Step	Action						
4	<p>Press on the Next key to confirm the selection and/or go to the Upload configuration in case of OMA emulation.</p> <p><u>Result:</u> The following screen comes up.</p> 						
5	<p>Press on the indicated key to display OMA or DVI according to the configuration you wish.</p> <table border="1" data-bbox="375 951 1344 1125"> <thead> <tr> <th data-bbox="375 951 500 1014">Key</th> <th data-bbox="500 951 1344 1014">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="375 1014 500 1066">ON</td> <td data-bbox="500 1014 1344 1066">Allows to upload the job to the Server</td> </tr> <tr> <td data-bbox="375 1066 500 1125">OFF</td> <td data-bbox="500 1066 1344 1125">Disable the possibility to upload the job to the server.</td> </tr> </tbody> </table>	Key	Description	ON	Allows to upload the job to the Server	OFF	Disable the possibility to upload the job to the server.
Key	Description						
ON	Allows to upload the job to the Server						
OFF	Disable the possibility to upload the job to the server.						
6	Press on the Next key to confirm the selection and go to the next calibration step.						

5 Machine Type Configuration Cx

Procedure

Follow the steps below to configure the machine type.

Step	Action
1	Access to the following screen of the adjustment menu. <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <div style="text-align: center;">Edger configuration</div> <div style="display: flex; justify-content: space-between;"> <div style="width: 80%;"> <p>Machine : Accura</p> <p>Scan : rounded stylus tip</p> <p>Finish. wheel loading compens. : ON</p> <p>Temperature compensation: ON</p> <p style="text-align: center;">Next Esc</p> </div> <div style="width: 15%; text-align: center;">       </div> </div> <div style="display: flex; justify-content: center; margin-top: 10px;">     </div> </div>
2	Select the <i>Machine: Accura</i> line.
3	Select Accura or Edge + according to the installed machine.
4	Press the Next key to confirm and/or go to the next calibration step.

6 Stylus Tip Configuration Cx, Pro

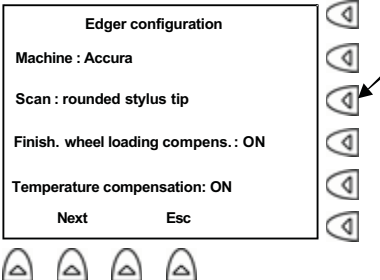
Description

New stylus tips (rounded) are available on Accuras Cx, Pro. Stylus shapes are different so the software has to process the data in two different ways. Stylus tip type has to be set up as follows.

If the stylus tip selection does not match what is effectively in the scanner, the frame tracing can give strange and unpredictable not wished results.

Procedure

Follow the steps below to configure the stylus tip.

Step	Action
1	Access to the following adjustment dialogue. <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">  </div>
2	Select the <i>Scan: rounded stylus tip</i> line.
3	Select Rounded stylus tip or Old stylus tip according to the installed machine.
4	Press the Next key to confirm and/or go to the next calibration step.

7 Stylus Tip Configuration Sx

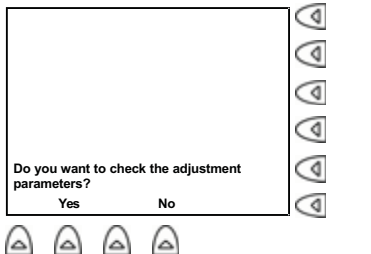
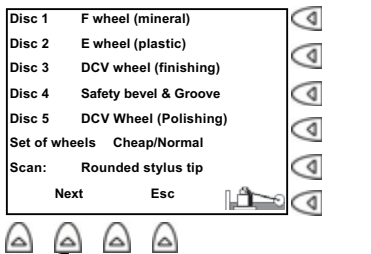
Description

New stylus tips (rounded) are available on Accuras Sx. Stylus shapes are different so the software has to process the data in two different ways. Stylus tip type has to be set up as follows.

If the stylus tip selection does not match what is effectively in the scanner, the frame tracing can give strange and unpredictable not wished results.

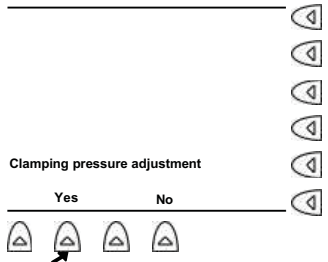
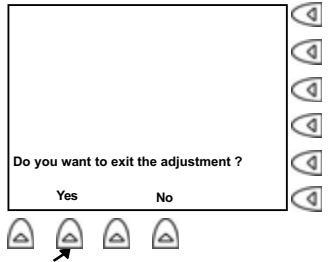
Procedure

Follow the steps below to configure the stylus tip.

Step	Action	Illustration
1	Access to the following adjustment dialogue.	
2	Press the Yes key. <u>Result:</u> The following screen comes up.	
3	Press on the key Fct4 (scan) until you display the stylus tip corresponding to the one in the scanner : <ul style="list-style-type: none"> • “<i>Old stylus tip</i>”: Triangled stylus tip (point) • “<i>Rounded stylus tip</i>”: Rounded stylus tip (new type) 	-

7 Stylus Tip Configuration (continued)

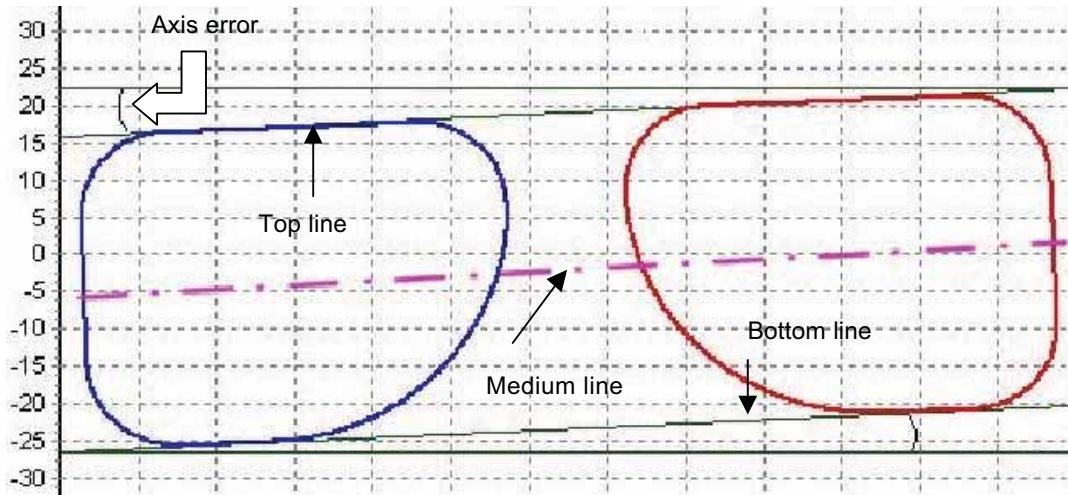
Procedure (continued)

Step	Action	Illustration
4	Press the Next key until the following screen comes up.	
5	Press the No key until the following screen comes up.	
6	Press the Yes key to quit the Technician adjustment dialog box.	-

8 Set the Frame Axis rectification

Principe

If the trace of the frame presents an axis default, the Accura can proceed to an axis correction called « *Frame axis rectification* » that tilts the traced shape according to the frame axis reference (Top line, bottom line, medium line).

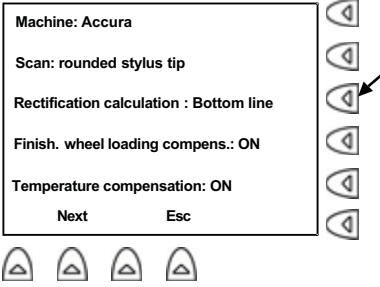


The frame axis rectification can be disabled by selecting the option « *Off* ».

8 Set the Frame Axis rectification (continued)

Procedure

To configure the frame axis rectification, proceeds as follows.

Step	Action
1	Access to the screen « <i>Edger configuration</i> » of the adjustment dialogue. 
2	Select the line « <i>Frame axis rectification</i> ».
3	Select the reference line for the frame axis rectification calculation: <ul style="list-style-type: none"> • Bottom line (by default) • Top line • Medium line (average of the top and bottom axis error) • A Off (to disable the function).
4	Press the Confirm key to validate the serial number and/or access to the following adjustment.

9 Change a finishing wheel - Finishing wheel loading compensation Cx, Pro, Lab, CI

Principle

After dressing a grinding wheel gets aggressive. This causes an instability of the size for the lenses cut after dressing.

The finishing wheel loading compensation takes this phenomenon into account to compensate the size of the lens after the wheel has been dressed.

Procedure

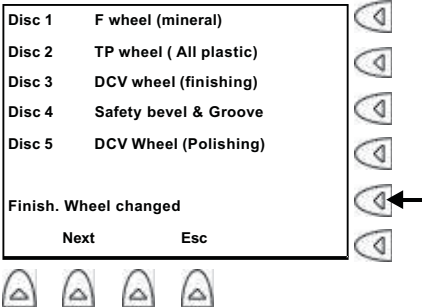

Follow the steps below to compensate the finishing wheel loading.

Step	Action
1	Access to the following adjustment dialogue. <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <div style="display: flex; justify-content: space-between;"> Edger configuration ◀ </div> <div style="display: flex; justify-content: space-between;"> Machine : Accura ◀ </div> <div style="display: flex; justify-content: space-between;"> Scan : rounded stylus tip ◀ </div> <div style="display: flex; justify-content: space-between;"> Finish. wheel loading compens. : ON ◀ </div> <div style="display: flex; justify-content: space-between;"> Temperature compensation: ON ◀ </div> <div style="display: flex; justify-content: space-between;"> Next Esc </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> ▲ ▲ ▲ ▲ </div>
2	Select the <i>Finish. Wheel loading compens.</i> line.
3	Select ON or OFF to activate or deactivate the finishing wheel loading compensation .
4	Press the Next key to confirm and/or go to the next calibration step.

9 Change a finishing wheel - Finishing wheel loading compensation Cx, Pro, Lab, CI (continued)

Changing a finishing wheel

In this case, the machine has to be informed about the wheel change. To do so, you have to press on the key facing the line « *Finish. wheel change* » in this menu.

Step	Action
1	<p>Access to the screen « <i>Do you want to check the adjustment parameters ?</i> » of the adjustment dialogue.</p> 
2	<p>Press on the key facing the line « <i>Finish. Wheel changed</i> ».</p> <p> DO NOT press this key if no wheel has been changed or you may alter the Accura sizing.</p>
3	<p>Press the Next key to confirm and/or go to the next calibration step.</p>

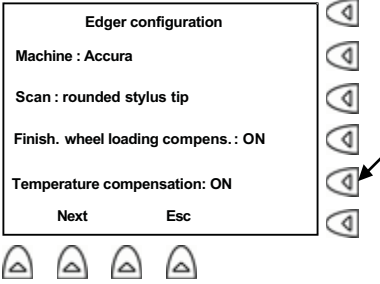
10 Disable/Enable Temperature Compensation Pro, Lab, CI

Description

- The temperature compensation enable has the effect of compensating automatically wheels expansion because of the water temperature.
- The temperature compensation enable is strongly advised for Accura connected to a pump system. It is useless in the case of a direct water supply installation. It is advised to deactivate it.

Procedure

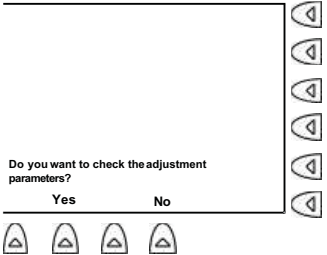
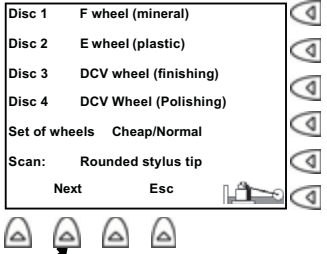
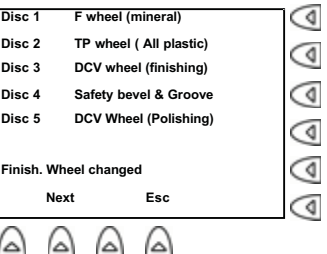
Follow the steps below to disable/enable temperature compensation.

Step	Action
1	Access to the following screen of the adjustment menu. 
2	Select the <i>Temperature compensation</i> line.
3	Press the ON or OFF key to enable (ON) or disable (OFF) the temperature compensation.
4	Press the Next key to confirm and/or go to the next calibration step.

11 Adjustment Parameters Consultation

Procedure

Follow the steps below to consult adjustment parameters

Step	Action	
1	Access to the following adjustment dialogue. 	
2	IF you are equipped with...	THEN...
	Accura Sx	Press the Yes key. <u>Result:</u> The following screen comes up. 
	Accura Cx, Pro, Lab, CI	Press the Yes key. <u>Result:</u> The following screen comes up. 

11 Adjustment Parameters Consultation (continued)

Procedure (continued)

Step	Action																																																												
3	IF you are equipped with...	THEN...																																																											
	Accura Sx, Cx, Pro, Lab, CI	<p>Press the Next key to carry on the consultation.</p> <p><u>Result:</u> The following screen comes up.</p> <div data-bbox="743 604 1101 890" style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Landing Pos. Polish.</td><td>BVL</td><td>-05.00 mm</td><td>◀</td></tr> <tr><td>Landing Pos. Polish</td><td>RIM</td><td>-11.50 mm</td><td>◀</td></tr> <tr><td>Landing Pos. Finish</td><td>BVL</td><td>-27.30 mm</td><td>◀</td></tr> <tr><td>Landing Pos. Finish</td><td>RIM</td><td>-34.10 mm</td><td>◀</td></tr> <tr><td>Landing Pos. Plastic</td><td>RG</td><td>-42.00 mm</td><td>◀</td></tr> <tr><td>Landing Pos. Mineral</td><td>RG</td><td>-62.00 mm</td><td>◀</td></tr> <tr><td colspan="4"> </td></tr> <tr><td>Wheel Radius Polish.</td><td>BVL</td><td>+54.20 mm</td><td>◀</td></tr> <tr><td>Wheel Radius Polish.</td><td>RIM</td><td>+55.00 mm</td><td>◀</td></tr> <tr><td>Wheel Radius Finish.</td><td>BVL</td><td>+54.20 mm</td><td>◀</td></tr> <tr><td>Wheel Radius Finish.</td><td>RIM</td><td>+55.00 mm</td><td>◀</td></tr> <tr><td>Plastic Rougher Radius</td><td></td><td>+55.00 mm</td><td>◀</td></tr> <tr><td>Plastic Rougher Radius</td><td></td><td>+55.00 mm</td><td>◀</td></tr> <tr><td colspan="4"> </td></tr> <tr><td colspan="2">Next</td><td>Esc</td><td>◀</td></tr> </table> <div style="display: flex; justify-content: center; gap: 10px; margin-top: 5px;"> ◀ ◀ ◀ ◀ </div> </div>	Landing Pos. Polish.	BVL	-05.00 mm	◀	Landing Pos. Polish	RIM	-11.50 mm	◀	Landing Pos. Finish	BVL	-27.30 mm	◀	Landing Pos. Finish	RIM	-34.10 mm	◀	Landing Pos. Plastic	RG	-42.00 mm	◀	Landing Pos. Mineral	RG	-62.00 mm	◀					Wheel Radius Polish.	BVL	+54.20 mm	◀	Wheel Radius Polish.	RIM	+55.00 mm	◀	Wheel Radius Finish.	BVL	+54.20 mm	◀	Wheel Radius Finish.	RIM	+55.00 mm	◀	Plastic Rougher Radius		+55.00 mm	◀	Plastic Rougher Radius		+55.00 mm	◀					Next		Esc
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Next		Esc	◀																																																										



11 Adjustment Parameters Consultation (continued)

Procedure (continued)

Step	Action																																										
5	IF you are equipped with...	THEN...																																									
	<p>Accura Sx</p> <p>Accura Cx, Pro, Lab, CI</p>	<p>Go directly to the next step.</p> <p>Press the Next key to carry on the consultation.</p> <p><u>Result:</u> The following screen comes up.</p> <div data-bbox="727 653 1084 947" style="border: 1px solid black; padding: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Safety Bevel</td><td></td><td></td></tr> <tr><td>Friction Wheel Adjust</td><td style="text-align: right;">+00.00</td><td style="text-align: center;">◀▶</td></tr> <tr><td>Angle</td><td style="text-align: right;">+00.00</td><td></td></tr> <tr><td>External Side</td><td></td><td style="text-align: center;">◀▶</td></tr> <tr><td>Height</td><td style="text-align: right;">+16.75</td><td></td></tr> <tr><td>Landing</td><td style="text-align: right;">- 22.00</td><td style="text-align: center;">◀▶</td></tr> <tr><td>Depth for Mineral Lens</td><td style="text-align: right;">+00.00</td><td></td></tr> <tr><td>Depth for Plastic Lens</td><td style="text-align: right;">+00.00</td><td style="text-align: center;">◀▶</td></tr> <tr><td>Internal Side</td><td></td><td style="text-align: center;">◀▶</td></tr> <tr><td>Height</td><td style="text-align: right;">+16.75</td><td></td></tr> <tr><td>Landing</td><td style="text-align: right;">- 18.00</td><td style="text-align: center;">◀▶</td></tr> <tr><td>Depth for Mineral Lens</td><td style="text-align: right;">+00.00</td><td></td></tr> <tr><td>Depth for Plastic Lens</td><td style="text-align: right;">+00.00</td><td style="text-align: center;">◀▶</td></tr> <tr><td colspan="2" style="text-align: center;">Next Esc</td><td style="text-align: center;">◀▶</td></tr> </table> <div style="display: flex; justify-content: center; gap: 10px; margin-top: 5px;"> ◀▶ ◀▶ ◀▶ ◀▶ </div> </div>	Safety Bevel			Friction Wheel Adjust	+00.00	◀▶	Angle	+00.00		External Side		◀▶	Height	+16.75		Landing	- 22.00	◀▶	Depth for Mineral Lens	+00.00		Depth for Plastic Lens	+00.00	◀▶	Internal Side		◀▶	Height	+16.75		Landing	- 18.00	◀▶	Depth for Mineral Lens	+00.00		Depth for Plastic Lens	+00.00	◀▶	Next Esc	
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Angle	+00.00																																										
External Side		◀▶																																									
Height	+16.75																																										
Landing	- 22.00	◀▶																																									
Depth for Mineral Lens	+00.00																																										
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11 Adjustment Parameters Consultation (continued)

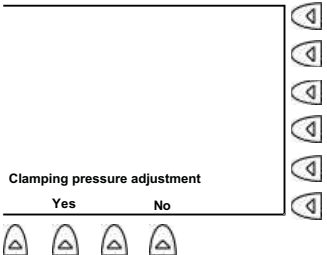
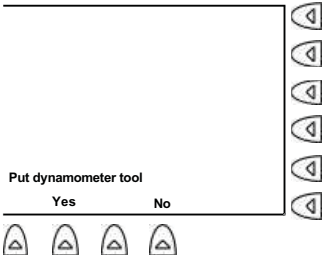
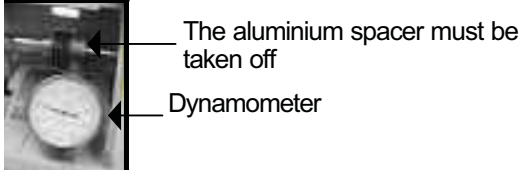
Procedure (continued)

Step	Action																																														
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12 Clamping Pressure Adjustment

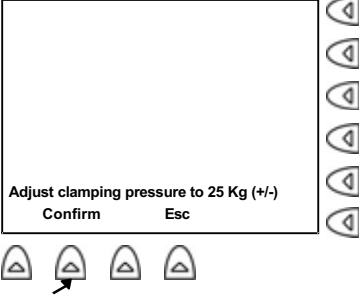


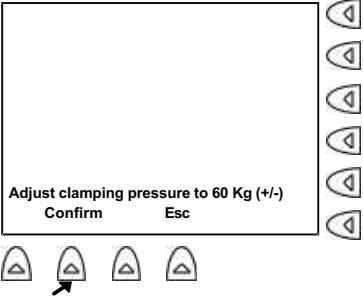
Procedure

Follow the steps below to adjust clamping pressure.

Step	Action
1	<p>Access to the following adjustment dialogue.</p> 
2	<p>Press the Yes key to start the lens clamping adjustment procedure.</p> <p><u>Result:</u> The following screen comes up.</p> 
3	Mount the lens adaptor (left side).
4	Remove the lens-clamping adaptor (right side).
5	<p>Mount the dynamometer (N° 14 04 056) making sure you took off the aluminium spacer.</p> 



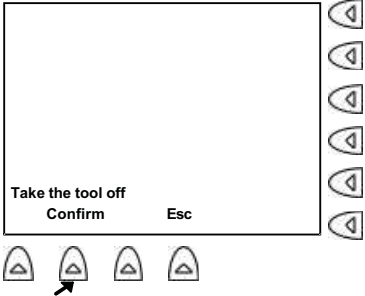
12 Clamping Pressure Adjustment (continued)

Procedure (continued)

Step	Action
6	<p>Press the Confirm key.</p> <p><u>Result:</u> The following screen comes up.</p>  <p>The screenshot shows a rectangular display area with the text "Adjust clamping pressure to 25 Kg (+/-)" and two buttons labeled "Confirm" and "Esc" below it. To the right of the display are five vertical arrow keys (up, down, up, down, up). Below the display are four horizontal arrow keys (left, up, right, down), with a mouse cursor pointing to the "up" key.</p>
7	<p>Adjust the clamping pressure to 25 kg with the  and/or  keys and press the Confirm key.</p> <p><u>Result:</u> The following screen comes up.</p>  <p>The screenshot shows a rectangular display area with the text "Adjust clamping pressure to 60 Kg (+/-)" and two buttons labeled "Confirm" and "Esc" below it. To the right of the display are five vertical arrow keys (up, down, up, down, up). Below the display are four horizontal arrow keys (left, up, right, down), with a mouse cursor pointing to the "up" key.</p>

12 Clamping Pressure Adjustment (continued)

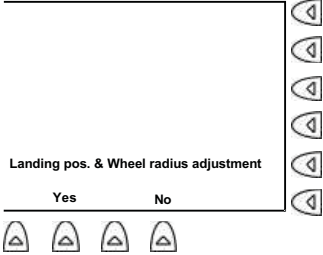
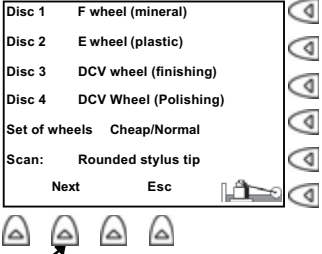
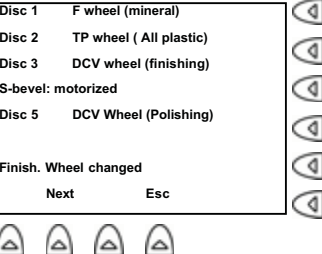
Procedure (continued)

Step	Action
8	<p>Adjust the clamping pressure to 60 kg with the  and/or  keys and press the Confirm key.</p> <p><u>Result:</u> The following screen comes up.</p> <div data-bbox="511 583 873 877" style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;">  <p style="text-align: center;">Take the tool off Confirm Esc</p> </div>
9	Press the Confirm key.
10	Take the dynamometer off.
11	Put the right adaptor on the shaft.

13 Carriage Landing Position Adjustment



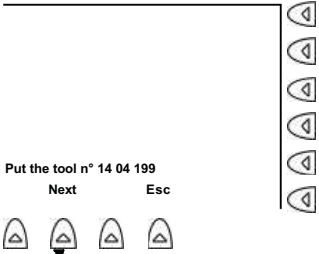
Procedure

Follow the steps below to adjust carriage landing position.

Step	Action	
1	Access to the following adjustment dialogue. 	
2	IF you are equipped with... Accura Sx Accura Cx, Pro, Lab, CI	THEN... Press the Yes key. <u>Result:</u> The following screen comes up.  Press the Yes key. <u>Result:</u> The following screen comes up. 

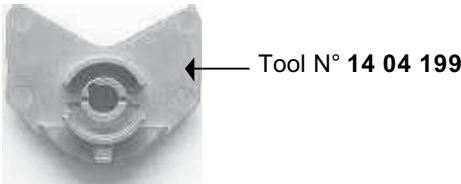
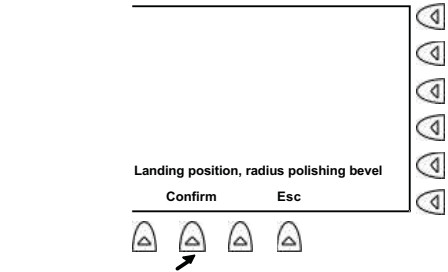
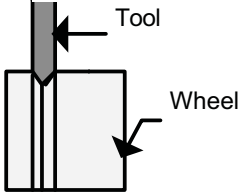
13 Carriage Landing Position Adjustment (continued)

Procedure (continued)

Step	Action	
3	Press the corresponding keys to set up the wheel set configuration of the machine. <u>Note on the Safety bevel function:</u> <ul style="list-style-type: none"> <input type="checkbox"/> If the machine is not equipped with the option, select « Absent » <input type="checkbox"/> If the machine is equipped with a driving disc # 11 29 022 (Blue disc), select the option « 50/50 » or « 30/45 » (Case of some Accura B&W equipped with a SB wheel with angles of 30° and 45°) <input type="checkbox"/> If the machine is equipped with a motorized safety bevel, select « motorized ». 	
4	IF you are equipped with...	THEN...
	Accura Sx	1. Select the set of wheels installed on the Accura Sx : <ul style="list-style-type: none"> • Cheap: Set of wheels specially design for Accura S, Sx • Normal: Set of wheels common with Accura Cx. 2. Check if Pump () / No pump () configuration is correct.
	Accura Cx, Pro, Lab, Cl	Go directly to the next step.
<u>Note:</u> You can also check or set the type of stylus tip in this menu.		
5	Go to the step 3 until you set the entire whole wheels configuration.	
6	Press the Next key to validate the wheel setting. <u>Result:</u> The following screen comes up. <div style="border: 1px solid black; padding: 10px; margin-top: 10px;">  </div>	

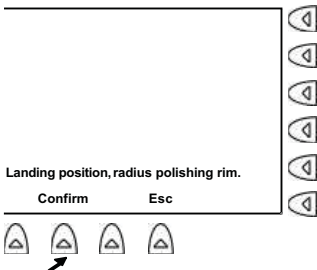
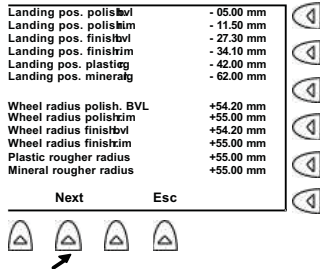
13 Carriage Landing Position Adjustment (continued)

Procedure (continued)

Step	Action
7	<p>Put the adjustment tool N° 14 04 199 on the lens adaptor shaft (left side).</p> 
8	<p>Press the Confirm key.</p> <p><u>Result:</u> The initialisation is in progress and the following screen comes up.</p> 
9	<p>Check if the tool is positioned in the bevel of the polishing wheel.</p> 

13 Carriage Landing Position Adjustment (continued)



Procedure (continued)

Step	Action																								
10	<p>Press the Confirm key.</p> <p><u>Result:</u></p> <ul style="list-style-type: none"> The adjustment of the carriage landing position and radius polishing rimless performs automatically. The tool positions automatically on the rimless polishing wheel and the following screen comes up. 																								
11	<p>Adjust the following carriage landing position:</p> <ol style="list-style-type: none"> Polishing Rimless (Check if the tool is well landing in the bottom of the bevel.) Finishing Bevel Plastic Roughing Mineral Roughing. <p>For each landing position, confirm the position with Confirm key until the next screen comes up.</p> <p><u>Result:</u> The landing position values come up as follows.</p>  <table border="1" data-bbox="506 1222 787 1402"> <tbody> <tr> <td>Landing pos. polishlwl</td> <td>-05.00 mm</td> </tr> <tr> <td>Landing pos. polishlm</td> <td>-11.50 mm</td> </tr> <tr> <td>Landing pos. finishlwl</td> <td>-27.30 mm</td> </tr> <tr> <td>Landing pos. finishlm</td> <td>-34.10 mm</td> </tr> <tr> <td>Landing pos. plasticg</td> <td>-42.00 mm</td> </tr> <tr> <td>Landing pos. mineralg</td> <td>-62.00 mm</td> </tr> <tr> <td>Wheel radius polish_BVL</td> <td>+54.20 mm</td> </tr> <tr> <td>Wheel radius polishrim</td> <td>+55.00 mm</td> </tr> <tr> <td>Wheel radius finishlwl</td> <td>+54.20 mm</td> </tr> <tr> <td>Wheel radius finishlm</td> <td>+55.00 mm</td> </tr> <tr> <td>Plastic rougher radius</td> <td>+55.00 mm</td> </tr> <tr> <td>Mineral rougher radius</td> <td>+55.00 mm</td> </tr> </tbody> </table>	Landing pos. polishlwl	-05.00 mm	Landing pos. polishlm	-11.50 mm	Landing pos. finishlwl	-27.30 mm	Landing pos. finishlm	-34.10 mm	Landing pos. plasticg	-42.00 mm	Landing pos. mineralg	-62.00 mm	Wheel radius polish_BVL	+54.20 mm	Wheel radius polishrim	+55.00 mm	Wheel radius finishlwl	+54.20 mm	Wheel radius finishlm	+55.00 mm	Plastic rougher radius	+55.00 mm	Mineral rougher radius	+55.00 mm
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12	Press the Next key to confirm the carriage landing position.																								
13	Save the adjustment.																								

14 Lens Feelers Adjustment

Procedure

Follow the steps below to adjust the lens feeler system.

Step	Action	Diagram
1	Access to the following adjustment dialogue.	
2	Put the adjustment tool # 14 04 199 on the lens shaft (left side).	
3	Press the Yes key to start the adjustment. <u>Result:</u> The lens feelers calibration performs automatically if the machine program allows it. If not, the following screen comes up.	
4	For machines with Eprom version < V2.00 , press the  and/or  keys to bring the left feeler tip middle, facing the adjustment tool notch.	
5	Press the Confirm key to continue the adjustment. <u>Result:</u> The lens feelers adjustment performs automatically.	-
6	Save the performed calibration.	-

15 Lifting Jack Gain Adjustment

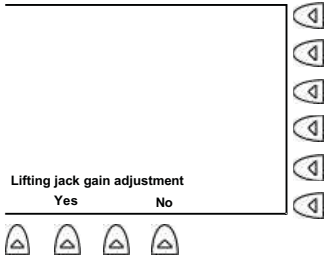
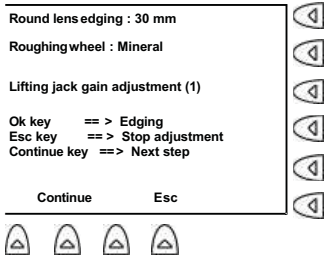

Restriction

The lifting jack gain adjustment must be performed only in the following cases:

- Size mismatch between large and small frames
- Lifting jack encoder replacement
- Main circuit board replacement of the Accura.


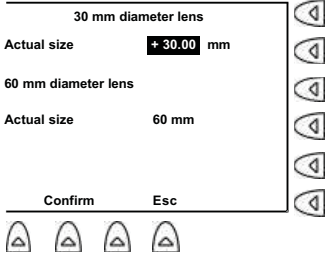







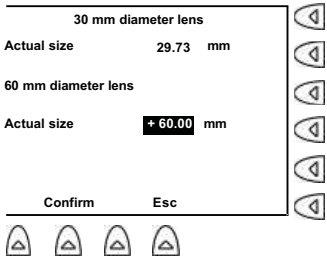
Procedure

Follow the steps below to adjust the lifting jack gain.

Step	Action
1	<p>Access to the following screen of the adjustment dialogue.</p> 
2	<p>Press the Yes key to start the adjustment.</p> <p><u>Result:</u> The following screen comes up.</p> 
3	<p>Edge a flat lens until \varnothing 30 mm by pressing the  key.</p>
4	<p>Take the lens \varnothing 30 mm out.</p>

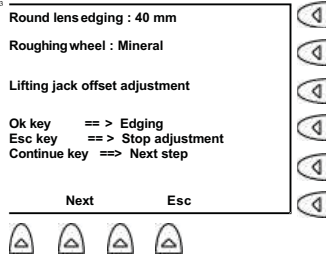
15 Lifting Jack Gain Adjustment (continued)

Procedure (continued)

Step	Action
5	<p>Press the Continue key and edge a flat lens of a \varnothing 60 mm by pressing the  key.</p> <p><u>Result:</u> The following screen comes up.</p> 
6	Measure the first edged lens diameter using a digital calliper.
7	Display the measured size with the  and/or  keys <u>or</u> enter the value on keypad.
8	Validate by the  key.
9	Measure the second edged lens diameter using a digital calliper.
10	Display the measured size with the  and/or  keys <u>or</u> enter the value on keypad.
11	<p>Display the measured size with the  and/or  keys <u>or</u> enter the value on keypad.</p> 

15 Lifting Jack Gain Adjustment (continued)

Procedure (continued)

Step	Action
12	<p>Press the Confirm key to validate the sizes.</p> <p><u>Result:</u> The lifting jack gain adjustment is finished; the machine goes automatically to offset and size adjustment and the following screen comes up.</p> 
13	<p>Go to the following 16 <i>Sizes Adjustment</i> to finish and save the lifting jack gain adjustment.</p>

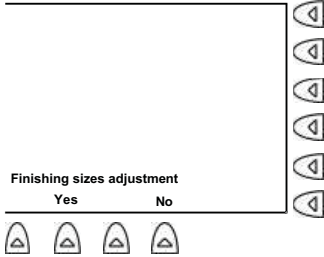
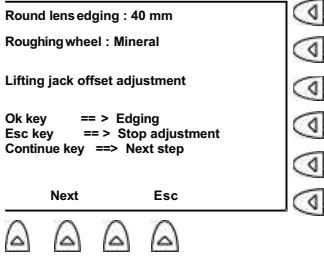

16 Sizes Adjustment

Advise

- It is mandatory to use flat lenses for sizes adjustments. Use organic lenses for the polishing sizes adjustment.
- During the measurement of the edged lens, we advise you to take two measures at 90° angle and to enter the average.


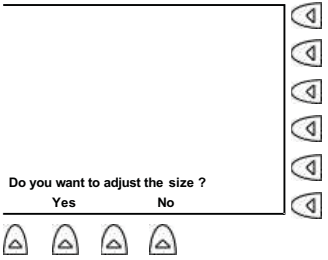

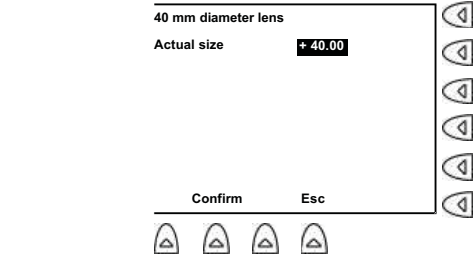


Procedure

Follow the steps below to adjust sizes.

Step	Action
1	<p>Access to the following screen of the adjustment dialogue.</p> 
2	<p>Press the Yes key to start the adjustment.</p> <p><u>Result:</u> The following screen comes up.</p> 
3	<p>Load the machine with a flat lens and press the  key.</p>

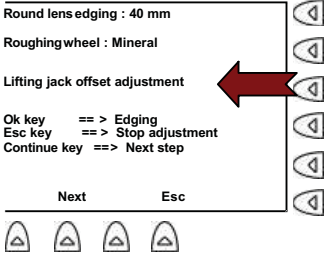

16 Sizes Adjustment (continued)

Procedure (continued)

Step	Action
4	<p>Press the  key to start edging.</p> <p><u>Results:</u></p> <ul style="list-style-type: none"> The lens is edged in rimless. The following screen comes up. 
5	<p>Measure the 40 mm lens size thanks to a digital calliper.</p> 
6	<p>IF the size is equal to...</p> <p>THEN...</p> <p>≠ 40 mm</p> <p>1. Press the Yes key.</p> <p><u>Result:</u> The following screen comes up.</p>  <p>2. Display the measured size with the  and/or  keys.</p> <p>3. Press the Confirm key to confirm the size.</p>

16 Sizes Adjustment (continued)

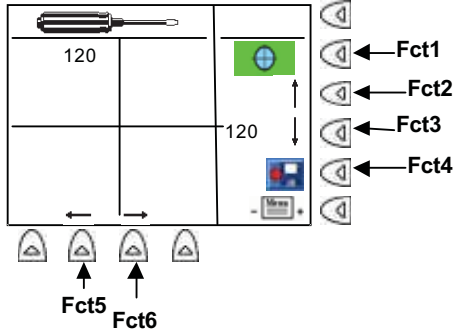
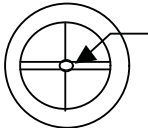

Procedure (continued)

Step	Action	
6 (continued)	= to 40 mm	1. Press the No key. 2. Go to the following step.
	<p><u>Result:</u> The following screen comes up.</p> 	
7	IF the size is equal to...	THEN...
	≠ 40 mm	Edge another flat lens with the  key in order to check the size is now 40 mm .
	= to 40 mm	Press the Continue key.
8	Repeat the previous operation for the following sizes adjustments: <ul style="list-style-type: none"> • Finishing Bevel • Polishing Rimless • Polishing Bevel. 	
9	When all lenses have been edged at right size , press the Continue key <u>then</u> save the performed calibration.	

17 Blocker/Center and Axis Adjustment Sx, Cx, Pro

Procedure

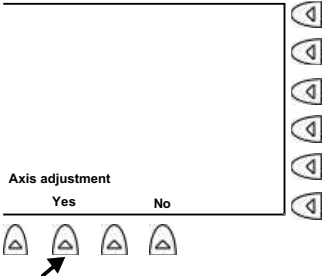
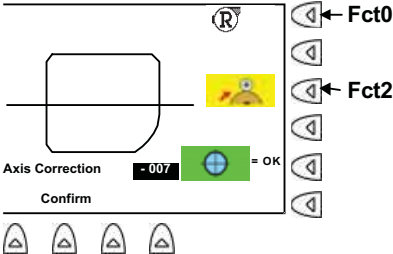

Follow the steps below to adjust blocker/center and axis.

Step	Action
1	<p>Access to the following screen of the adjustment dialogue.</p>  <p>The screenshot shows a 2x2 grid. The top-left cell contains a screwdriver icon and the number '120'. The top-right cell contains a green square with a white crosshair and the number '120'. The bottom-right cell contains a blue square with a white crosshair and the number '120'. To the right of the grid are four function keys labeled Fct1, Fct2, Fct3, and Fct4. Below the grid are four function keys labeled Fct5 and Fct6. Arrows indicate the direction of adjustment for each key.</p>
2	<p>Take of an adhesive holder (block) that you would drilled previously 2 mm from the center.</p>  <p>Drill a \varnothing 2mm hole in the center of the adhesive holder</p>
3	<p>Place an adhesive on the holder and block directly on the screen aid of the Fct1 key.</p>
4	<p>Adjust the screen position aid of the Fct2, Fct3, Fct5 and Fct6 keys to see the cross at the center of the hole that you drilled.</p>
5	<p>Save the adjustment aid of the Fct4 key.</p>
6	<p>Press the  key to go to the following adjustment.</p>

18 Axis Adjustment

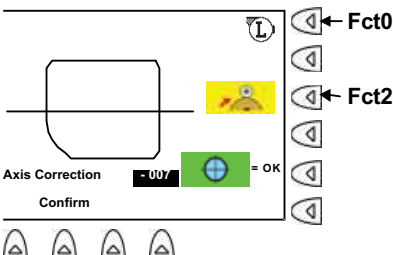
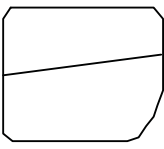

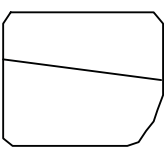

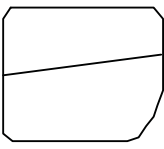

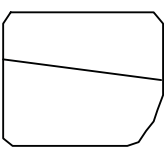

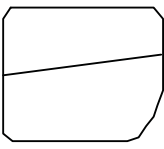

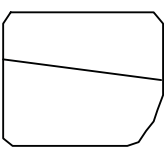

Procedure

Follow the steps below to adjust the axis.

Step	Action
1	Access to the following screen of the adjustment dialogue. 
2	Press the Yes key. <u>Result:</u> The following screen comes up. 
3	Press the Fct0 key to select the side lens to edge.
4	Mark a line on a window lens and center it.
5	Press the  key to block the lens (Cx, Pro).
6	Press the Fct2 key to edge the lens.
7	When the edging is finished , remove the lens from the edger.

18 Axis Adjustment (continued)

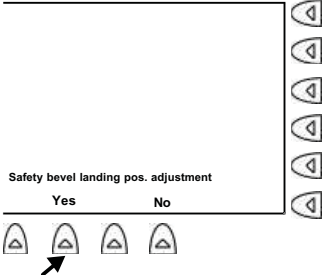
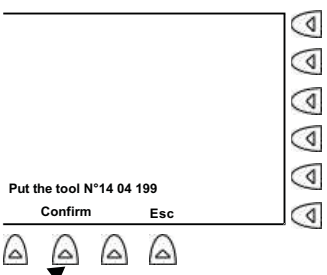
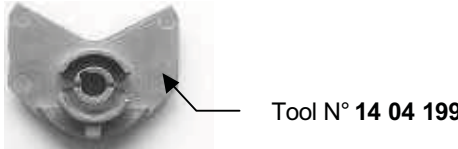
Procedure (continued)

Step	Action								
8	<p>Edge the symmetric lens. Follow the steps 4 to 8 of this procedure.</p> 								
9	<p>Put the two edged lenses back to back.</p> <p><u>Result:</u></p> <table border="1" data-bbox="375 840 1344 1444"> <thead> <tr> <th data-bbox="375 840 812 892">IF the lens lines...</th> <th data-bbox="812 840 1344 892">THEN...</th> </tr> </thead> <tbody> <tr> <td data-bbox="375 892 812 945">Superimpose</td> <td data-bbox="812 892 1344 945">Axis is correct. Go directly to step 10.</td> </tr> <tr> <td data-bbox="375 945 812 1197"> <p>Point down at the temple of the right lens</p> <p>Temple </p> </td> <td data-bbox="812 945 1344 1197"> <p>Correct axis as follows.</p> <ol style="list-style-type: none"> Increase the value displayed with the  key. Edge two another lenses and check the axis again. Follow the steps 4 to 9 of this procedure. </td> </tr> <tr> <td data-bbox="375 1197 812 1444"> <p>Point up at the temple of the right lens</p> <p>Temple </p> </td> <td data-bbox="812 1197 1344 1444"> <p>Correct axis as follows.</p> <ol style="list-style-type: none"> Decrease the value displayed with the  key. Edge two another lenses and check the axis again. Follow the steps 4 to 9 of this procedure. </td> </tr> </tbody> </table>	IF the lens lines...	THEN...	Superimpose	Axis is correct. Go directly to step 10.	<p>Point down at the temple of the right lens</p> <p>Temple </p>	<p>Correct axis as follows.</p> <ol style="list-style-type: none"> Increase the value displayed with the  key. Edge two another lenses and check the axis again. Follow the steps 4 to 9 of this procedure. 	<p>Point up at the temple of the right lens</p> <p>Temple </p>	<p>Correct axis as follows.</p> <ol style="list-style-type: none"> Decrease the value displayed with the  key. Edge two another lenses and check the axis again. Follow the steps 4 to 9 of this procedure.
IF the lens lines...	THEN...								
Superimpose	Axis is correct. Go directly to step 10.								
<p>Point down at the temple of the right lens</p> <p>Temple </p>	<p>Correct axis as follows.</p> <ol style="list-style-type: none"> Increase the value displayed with the  key. Edge two another lenses and check the axis again. Follow the steps 4 to 9 of this procedure. 								
<p>Point up at the temple of the right lens</p> <p>Temple </p>	<p>Correct axis as follows.</p> <ol style="list-style-type: none"> Decrease the value displayed with the  key. Edge two another lenses and check the axis again. Follow the steps 4 to 9 of this procedure. 								
10	<p>When the axis is correct, press the Confirm key.</p>								

19 Safety-Bevel Landing Points Adjustment Cx, Pro, Lab, CI

Procedure

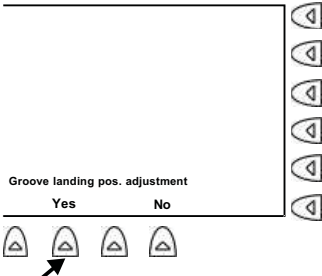
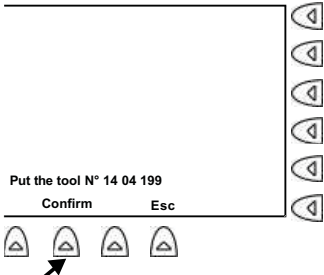
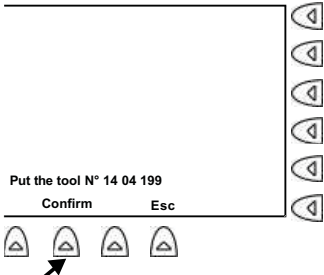
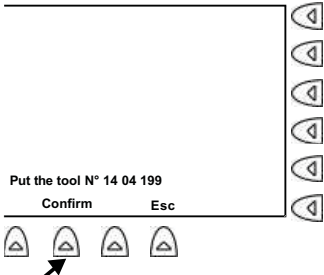
Follow the steps below to adjust safety-bevel landing points.

Step	Action
1	<p>Access to the following menu of the adjustment dialogue.</p> 
2	<p>Press the Yes key.</p> <p><u>Result:</u> The following screen comes up.</p> 
3	<p>Put the adjustment tool N° 14 04 199 on the lens adaptor shaft (left side).</p> 
4	<p>Press the Confirm key.</p> <p><u>Result:</u> The safety-bevel adjustment starts automatically.</p>
5	<p>When the adjustment is finished, save it.</p>

20 Groove Landing Point Adjustment Cx, Pro, Lab, CI

Procedure

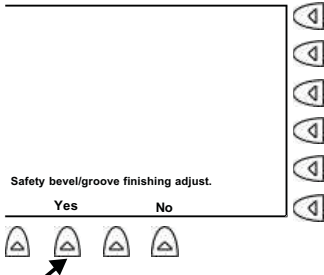
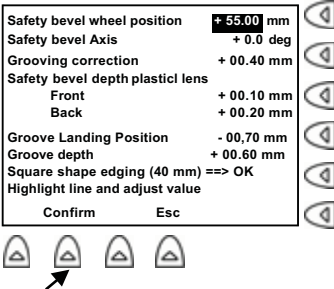

Follow the steps below to adjust groove landing point.

Step	Action						
1	<p>Access to the following menu of the adjustment dialogue.</p> 						
2	<p>Press the Yes key.</p> <p><u>Result:</u></p> <table border="1" data-bbox="375 890 1344 1050"> <thead> <tr> <th data-bbox="375 890 657 968">IF the groove adjustment...</th> <th data-bbox="657 890 1344 968">THEN...</th> </tr> </thead> <tbody> <tr> <td data-bbox="375 968 657 1050">Has been done and the tool is mounted</td> <td data-bbox="657 968 1344 1050">The groove adjustment starts automatically.</td> </tr> <tr> <td data-bbox="375 1050 657 1507">Has not been done</td> <td data-bbox="657 1050 1344 1507"> <ul style="list-style-type: none"> The following screen comes up.  <ul style="list-style-type: none"> Put the adjustment tool n° 14 04 199 on the lens adaptor shaft (left side). Press the Confirm key. </td> </tr> </tbody> </table>	IF the groove adjustment...	THEN...	Has been done and the tool is mounted	The groove adjustment starts automatically.	Has not been done	<ul style="list-style-type: none"> The following screen comes up.  <ul style="list-style-type: none"> Put the adjustment tool n° 14 04 199 on the lens adaptor shaft (left side). Press the Confirm key.
IF the groove adjustment...	THEN...						
Has been done and the tool is mounted	The groove adjustment starts automatically.						
Has not been done	<ul style="list-style-type: none"> The following screen comes up.  <ul style="list-style-type: none"> Put the adjustment tool n° 14 04 199 on the lens adaptor shaft (left side). Press the Confirm key. 						
3	<p>When the groove adjustment is finished, take the adjustment tool (n° 14 04 199) off.</p>						
4	<p>Press the Confirm key <u>then</u> save the adjustment.</p>						

21 Safety Bevel and Groove Finishing Adjustment Cx, Pro, Lab, CI

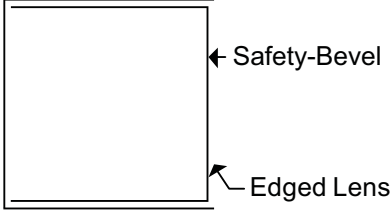
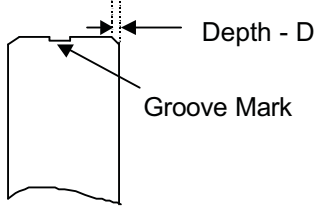




Procedure

Follow the steps below to adjust safety bevel and groove.

Step	Action
1	<p>Access to the following screen of the adjustment dialogue.</p> 
2	<p>Press the Yes key.</p> <p><u>Result:</u> The following screen comes up.</p> 
3	<p>Check the value of the friction wheel radius given by the machine.</p>
4	<p>Block manually a square flat plastic lens \geq to 50 mm side. Those lenses are available with the part # 10 00185.</p> <p>Do not use glass lenses if the Accura is equipped with Eprom Version \geq V2.90. Use of glass lenses in this case is <u>destructive</u> for the plastic roughing wheel and the grooving blade.</p>
5	<p>Start edging the lens by pressing the  key.</p> <p><u>Result:</u> The square flat lens is edged in rimless program. Safety bevel is done on both sides and groove is marked on the edge of the lens.</p>




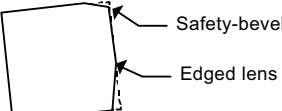









21 Safety Bevel and Groove Finishing Adjustment Cx, Pro, Lab, CI (continued)

Procedure (continued)

Step	Action	
6	<p>When edging is finished, check the safety-bevel and groove. A correct safety-bevel and groove mark look as follows:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div> <p><u>Note:</u> The safety-bevel (both sides) must be even and parallel to square lens edge <u>and</u> groove must be just marked along the lens edge, without depth.</p> <ul style="list-style-type: none"> • If this is the case on edged lens, go to step 9. • If this is not the case on edged lens, go to step 7. 	
7	IF the safety bevel is...	THEN select the line(s) confirmed with  key <u>and</u>...
	not present on one or both sides of the lens	Increase the safety bevel depth on the concerned side(s) of the lens aid of the  key.
	is too thin on one or both sides of the lens	Increase the safety bevel depth on the concerned side(s) of the lens aid of the  key. Safety bevel must be adjusted <i>thin</i> (D<0.2mm). The operator during normal use of the machine does the depth selection (thin, medium, and thick).
	is too thick on one or both sides of the lens	Decrease the safety bevel depth on the concerned side(s) of the lens aid of the  key.

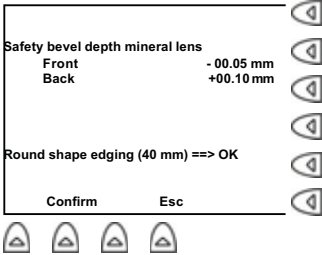













21 Safety Bevel and Groove Finishing Adjustment Cx, Pro, Lab, CI (continued)

Procedure (continued)

Step	Action	
7 (continued)	IF the safety-bevel axis is as follows...	THEN select the line <i>Safety-bevel axis</i> confirmed with  key and...
		Display a more negative value for the safety-bevel axis aid of the  key.
		Display a more positive value the safety-bevel axis aid of the  key.
	IF the groove mark is...	THEN select the line <i>Grooving correction</i> confirmed with  key and...
	too deep	Display a larger value grooving with the  key.
	not traced	Display a smaller value grooving with the  key.
	IF the groove mark is...	THEN select the line <i>Grooving Landing Position</i> confirmed with  key and...
	Too much to the front of the lens	Display a higher value in absolute value with the  key.
	Too much to the back of the lens	Display a lower value in absolute value with the  key.
8	Adjust the groove depth using the  or  keys to test the groove depth, you have to edge a plastic lens in the regular operation menu of the machine (groove program).	
9	Go to the step 4 of this procedure until you obtain a correct safety-bevel and a groove mark.	

21 Safety Bevel and Groove Finishing Adjustment Cx, Pro, Lab, CI (continued)

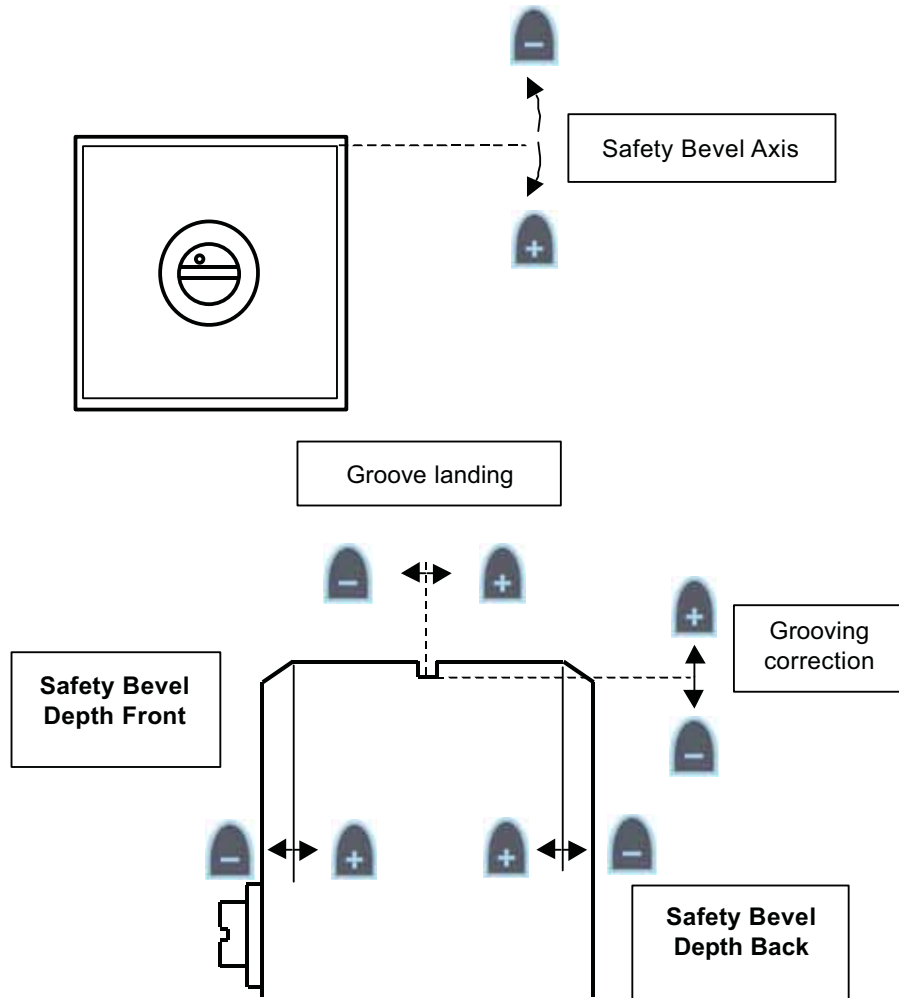
Procedure (continued)


Step	Action										
10	<p>When safety-bevel and groove mark adjustments are corrects, press the Confirm key.</p> <p><u>Result:</u> The following screen comes up.</p> 										
11	Block manually an mineral lens diameter \geq to 50 mm .										
12	<p>Start edging the lens by pressing the  key.</p> <p><u>Result:</u> The round lens is edged in rimless program. Safety bevel is done on both sides.</p>										
13	When edging is finished , check the safety bevel depth on both sides.										
14	<table border="1"> <tr> <td data-bbox="383 1066 675 1129">IF the safety bevel is...</td> <td data-bbox="675 1066 1344 1129">THEN select the line(s) confirmed with  key <u>and...</u></td> </tr> <tr> <td data-bbox="383 1129 675 1234">not present on one or both sides of the lens</td> <td data-bbox="675 1129 1344 1234">Increase the safety bevel depth on the concerned side(s) of the lens aid of the  key.</td> </tr> <tr> <td data-bbox="383 1234 675 1346">too thin on one or both sides of the lens</td> <td data-bbox="675 1234 1344 1346">Increase the safety bevel depth on the concerned side(s) of the lens aid of the  key.</td> </tr> <tr> <td colspan="2" data-bbox="383 1346 1344 1430">Safety bevel must be adjusted <i>thin</i> ($D < 0.2\text{mm}$). The operator during normal use of the machine does the depth selection (thin, medium, and thick).</td> </tr> <tr> <td data-bbox="383 1430 675 1535">too thick on one or both sides of the lens</td> <td data-bbox="675 1430 1344 1535">Decrease the safety bevel depth on the concerned side(s) of the lens aid of the  key.</td> </tr> </table>	IF the safety bevel is...	THEN select the line(s) confirmed with  key <u>and...</u>	not present on one or both sides of the lens	Increase the safety bevel depth on the concerned side(s) of the lens aid of the  key.	too thin on one or both sides of the lens	Increase the safety bevel depth on the concerned side(s) of the lens aid of the  key.	Safety bevel must be adjusted <i>thin</i> ($D < 0.2\text{mm}$). The operator during normal use of the machine does the depth selection (thin, medium, and thick).		too thick on one or both sides of the lens	Decrease the safety bevel depth on the concerned side(s) of the lens aid of the  key.
IF the safety bevel is...	THEN select the line(s) confirmed with  key <u>and...</u>										
not present on one or both sides of the lens	Increase the safety bevel depth on the concerned side(s) of the lens aid of the  key.										
too thin on one or both sides of the lens	Increase the safety bevel depth on the concerned side(s) of the lens aid of the  key.										
Safety bevel must be adjusted <i>thin</i> ($D < 0.2\text{mm}$). The operator during normal use of the machine does the depth selection (thin, medium, and thick).											
too thick on one or both sides of the lens	Decrease the safety bevel depth on the concerned side(s) of the lens aid of the  key.										
15	When safety bevel and groove depths are both correct , press on the Confirm key and save the calibration.										

21 Safety Bevel and Groove Finishing Adjustment Cx, Pro, Lab, CI (continued)

To summarize

These schemes indicate the key to press ( or ) to get the wished correction in the calibration called « *Safety bevel and groove finishing adjustment* ».

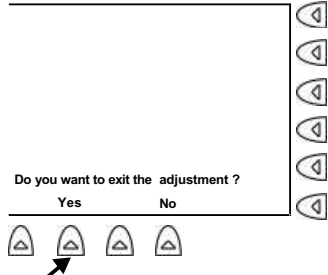


For example, if you want the groove to be placed more to the back of the lens, press on the  key to change the value on the calibration menu.

22 Exit the Calibration Program

Procedure

Follow the steps below to exit the calibration program.

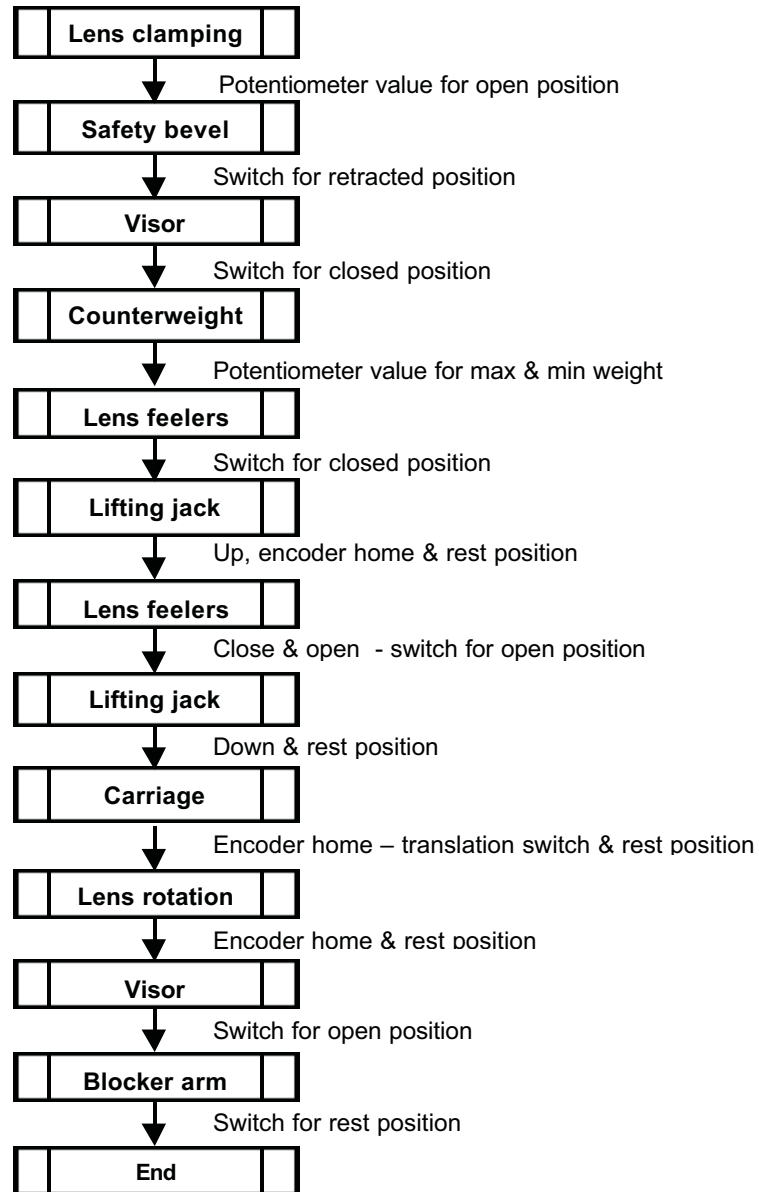
Step	Action
1	<p>Access to the following screen of the adjustment dialogue.</p> 
2	<p>Press on the Yes key.</p> <p><u>Result:</u></p> <ul style="list-style-type: none"> • The machine reboots • The scanning screen comes up. <p><u>Note:</u> If you pressed on No, the machine goes to the first step of program: "<i>Machine serial number update</i>".</p>

23 Scanform IV Boot sequence

Introduction

In some cases, knowing the exact Accura boot sequence can reveal useful to troubleshoot the faulty part.

This diagram indicates the part supposed to move and the step-over condition.



IV SCANFORM™ STATION CALIBRATION

1	Setting and adjustment main menu	IV-1-1
	Scanform VI Arborescence	IV-1-1
2	Scanform™ VI Configuration and Adjustment Cx, Pro	IV-2-1
	General navigation rules	IV-2-1
	Entering into a sub-menu	IV-2-1
	Entering from a sub-menu (Tree upwards move)	IV-2-1
	Selecting an option	IV-2-2
	Increasing and decreasing a value	IV-2-3
3	Scanform™ VI Configuration Cx, Pro	IV-3-1
	Configuration menu	IV-3-1
	Screen contrast Adjustment (cfg1)	IV-3-1
	Text language Configuration (cfg2)	IV-3-2
	Protocol Configuration (cfg3)	IV-3-2
	OMA Communication Transmission Configuration (cfg4)	IV-3-3
	Photocell Configuration (cfg5)	IV-3-3
	Tip Version Configuration (cfg6)	IV-3-4
	Interface by Icons Configuration (cfg7)	IV-3-4
	Scanning Speed Configuration (cfg8)	IV-3-5
	Calibration Test Configuration (cfg9)	IV-3-5
	Adjustment Parameters Displaying Configuration (cfg10)	IV-3-6
	Counter Menu (cpt1)	IV-3-6
	Burning Menu	IV-3-7

4	Scanform™ VI Adjustment Cx, Pro	IV-4-1
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	Start (adj1)	IV-4-1
	Query (adj2)	IV-4-7
	Check (adj3)	IV-4-8
5	Scanform™ IV Adjustment Cx, Pro	IV-5-1
	Access	IV-5-1
	Procedure	IV-5-2
	Adjustment Parameters Saving	IV-5-5
	Scanform™ IV Adjustment Parameters Display	IV-5-6
6	Scanform™ Adjustment Sx	IV-6-1
	Procedure	IV-6-1

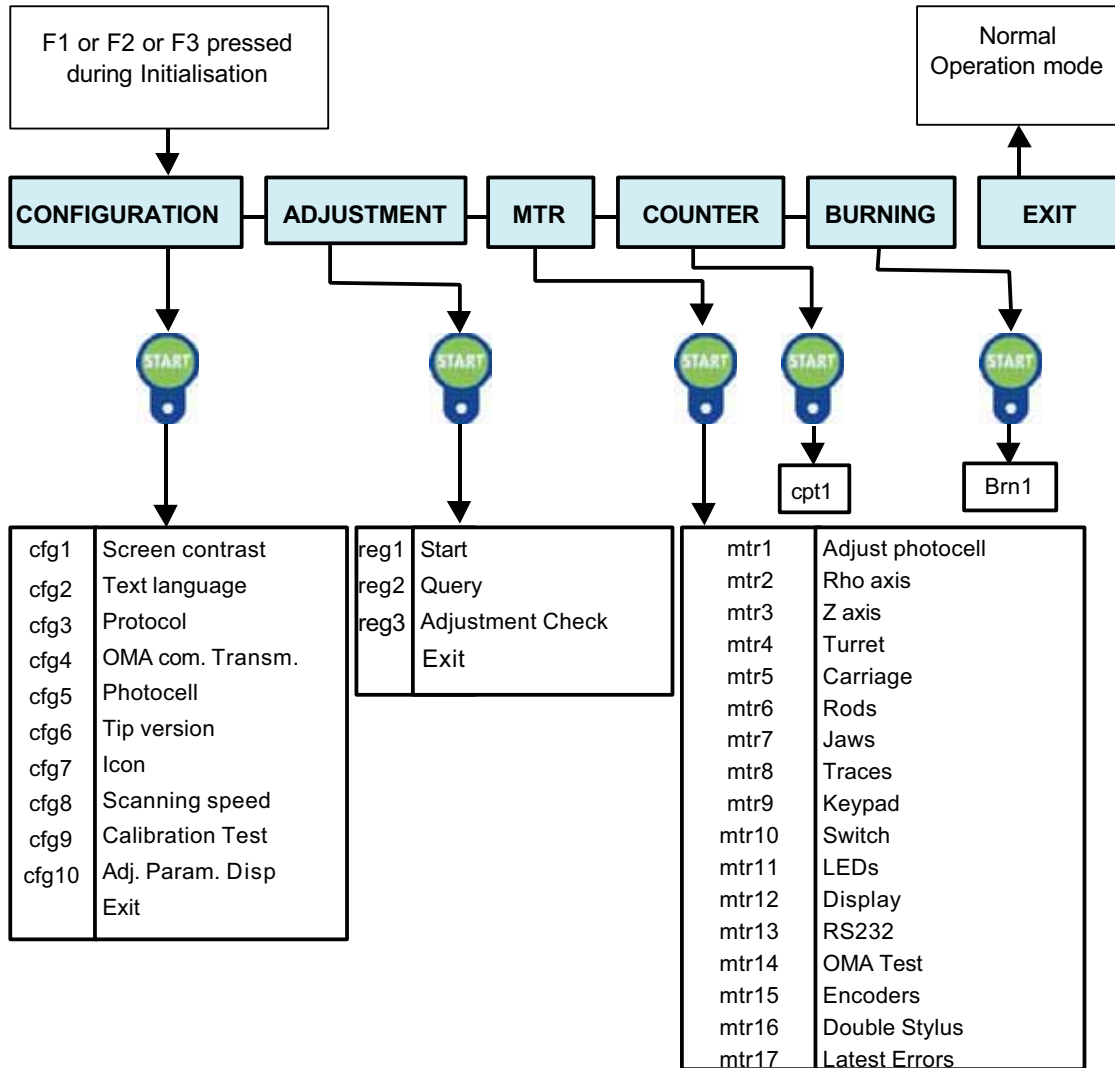
1 Setting and adjustment main menu

Scanform VI Arborescence

This menu will allow you to set, adjust and test the scanner unit.

You can enter into this menu, by switching on the unit and pressing whatever **F1** or **F2** or **F3** key, during the very start of the initialization.

Result: You will then enter into the setting and adjustment menu, which tree is described beneath:






2 Scanform™ VI Configuration and Adjustment Cx, Pro

General navigation rules

Due to the limited amount of keys available on the scanner keyboard, the following navigation rules have been elected.




Entering into a sub-menu

Follow the steps below to enter in a sub-menu.

Step	Action
1	<p>Move the desired sub-menu title to the uppermost line of the screen (between the left and right black arrows), by using  key for scrolling-up and  key for scrolling-down.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>▶ Adjustment ◀ MTR Counter Burning</p> </div>
2	<p>Press  key to enter into the selected sub-menu.</p>



Entering from a sub-menu (Tree upwards move)

Follow the steps below, according to the sub-menu involved:

Step	Action
1	<p>Move the EXIT option to the uppermost line of the screen (between the left and right black arrows), by using  key for scrolling-up and  key for scrolling-down.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>▶ Exit ◀</p> </div>
2	<p>Press  key to exit from current sub-menu.</p>





2 Scanform™ VI Configuration and Adjustment Cx, Pro (continued)

Entering from a sub-menu (Tree upwards move) (continued)

Step	Action
1	<p><u>or</u></p>  Press  key twice to put an end to the present test and exit from the current sub-menu. <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>▶ Single carriage mvt ◀</p> <p>Single rod mvt</p> <p>Single jaws mvt</p> <p>FIN → STOP</p> </div>

Selecting an option



Follow the steps below to select an option.

Step	Action
1	<p>Move the desired option to the uppermost line of the screen (between the left and right black arrows), by using  key for scrolling-up and  key for scrolling-down.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>▶ <input type="checkbox"/> OFF ◀</p> <p><input checked="" type="checkbox"/> ON</p> <p><input type="checkbox"/> Exit</p> </div>
2	<p> Press  key to validate the desired option.</p> <p><u>Result:</u> A “v” symbol will appear into the corresponding option tick box.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>▶ <input checked="" type="checkbox"/> OFF ◀</p> <p><input type="checkbox"/> ON</p> <p><input type="checkbox"/> Exit</p> </div>

2 Scanform™ VI Configuration and Adjustment Cx, Pro (continued)

Increasing and decreasing a value

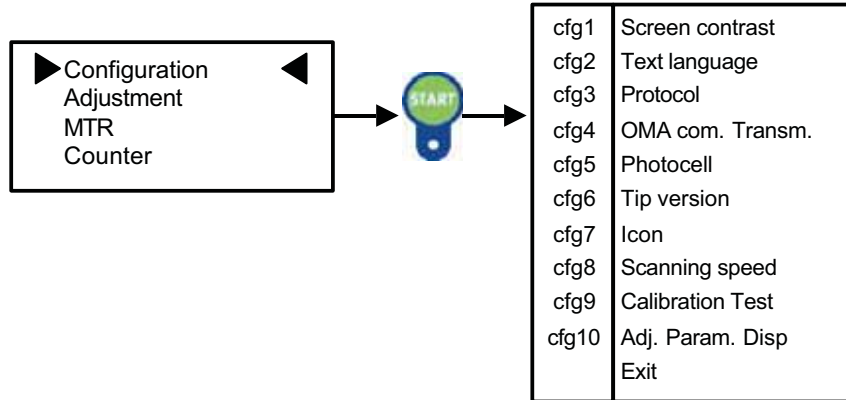
Follow the steps below to increase or decrease a value.

Step	Action
1	<p data-bbox="383 516 1336 600">If a numerical value is required, you can increase and decrease the default value by pressing  key for scrolling-up or  key for scrolling-down.</p> <p data-bbox="383 621 1336 678"><u>Note:</u> Such a case can occur during calibration procedure, in order to enter the exact pattern tool values.</p>

3 Scanform™ VI Configuration Cx, Pro




Configuration menu

This menu contains the specific user and hardware options of the scanner unit.



Screen contrast Adjustment (cfg1)

To set the screen contrast, proceed as follows.

Step	Action
1	Enter into the "Screen contrast" menu.
2	Press  or  to set the contrast as desired.
3	Press  key to validate the contrast adjustment and exit.

3 Scanform™ VI Configuration Cx, Pro (continued)

Text language Configuration (cfg2)

To set the user text language, proceed as follows.

Step	Action
1	Enter into the "Text language" menu.
2	Select and validate the desired language. You can choose between 4 languages: <ul style="list-style-type: none"> • Français • English • Deutsch • Español
3	Exit from the "Text language" menu.

Protocol Configuration (cfg3)

The tracer main frame can operate inside an Accura edger or as a stand alone scannet unit. Two options are therefore available:

- "OMA" option for a stand alone scannet unit.
- "Scan 4" option for an Accura scanner.

To set the correct serial communication protocol, proceed as follows:

Step	Action
1	Enter into the "Protocol" menu.
2	Select and validate the correct protocol.
3	Exit from the "Protocol" menu.

3 Scanform™ VI Configuration Cx, Pro (continued)

OMA Communication Transmission Configuration (cfg4)

"OMA" communication baud rate can be set by the user, between 4.800 and 115.200 bauds.
 "Scan 4" communication baud rate is automatically set to 9600 by the software application.

To set the OMA serial communication baud rate, proceed as follows:

Step	Action
1	Enter into the "OMA com. Transm." menu.
2	Select and validate the correct baud rate.
3	Exit from the "OMA com. Transm." menu.

Photocell Configuration (cfg5)

Turret rotation movement is protected against any mechanical jamming by a photocell device. It should be activated in normal operation, for obvious safety reasons. However, if the photocell device itself is defective, you can deactivate it and keep on working until the problem is solved

To activate or not the photocell safety device, proceed as follows:

Step	Action
1	Enter into the "Photocell." menu.
2	Select and validate the desired option.
3	Exit from the "Photocell." menu.

3 Scanform™ VI Configuration Cx, Pro (continued)

Tip Version Configuration (cfg6)

You must declare the correct stylus tip version, actually fitted inside the scanner:

- “**Version 1.0**” for single tip stylus.
- “**Version 3.0**” for double tip stylus.

To select the correct stylus tip version, proceed as follows:

Step	Action
1	Enter into the “ <i>Tip version</i> ” menu.
2	Select and validate the correct option.
3	Exit from the “ <i>Tip version</i> ” menu.

Interface by Icons Configuration (cfg7)

When using the tracer (Mode Scanform Net 2 only), the messages displayed on the screen (Type of frame, right or left side, etc.) can be replaced by explicit icons. This menu is to select whatever interface (text or icons).

To set the interface by icons, proceed as follows:

Step	Action
1	Enter into the “ <i>ICON</i> ” menu
2	Select and validate the option ON or OFF .
3	Exit from the “ <i>ICON</i> ” menu

3 Scanform™ VI Configuration Cx, Pro (continued)

Scanning Speed Configuration (cfg8)

It is possible to modify the tracing speed of the tracer. The selection « *Fast scan* » (selection by default) will make the scanner to trace in fast speed. The selection « *Slow scan* » will make the scanner to trace in slow speed (speed is identical to the slow tracing selected on the keypad but the stylus insertion is automatic).

To set the tracing speed, proceed as follows:

Step	Action
1	Enter into the "SCANNING SPEED" menu.
2	Select and validate the option « Fast scan » or « Slow scan ».
3	Exit from the "SCANNING SPEED" menu.

Calibration Test Configuration (cfg9)

In order to guarantee a correct and constant scanform calibration, it is possible to start the procedure « *Calibration test* », see *Check (adj3)* each time the scanform is turned on. This check-up can be enabled or disabled.

To set the calibration test, proceed as follows:

Step	Action
1	Enter into the " CALIBRATION TEST" menu.
2	Select and validate the option ON or OFF .
3	Exit from the " CALIBRATION TEST " menu.

3 Scanform™ VI Configuration Cx, Pro (continued)

Adjustment Parameters Displaying Configuration (cfg10)

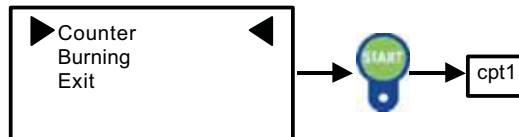
When adjusting the scanform, it is possible to display or not the adjustment parameters of the calibration step that has just been performed.

 **Not displaying the adjustment parameters can lead to a non detection of a latent problem laying in the scanform.**




To enable or disable the display of the parameters, proceed as follows:

Step	Action
1	Enter into the “ <i>ADJ. PARAM. DISP</i> ” menu.
2	Select and validate the option ON or OFF .
3	Exit from the “ <i>ADJ. PARAM. DISP</i> ” menu.

Counter Menu (cpt1)

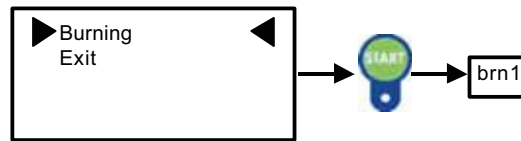


To review the counters, proceed as follows.


Step	Action
1	<p>Select “<i>Counter</i>” and press .</p> <p><u>Result:</u> Five counters are displayed:</p> <ul style="list-style-type: none"> • Total number of starts • Total number of calibration performed • Number of scans • Number of scans with one eye selected • Number of scans with both eyes selected
2	Use  and  to scroll through the counters.

3 Scanform™ VI Configuration Cx, Pro (continued)

Burning Menu



To run a burning cycle, proceed as follows.

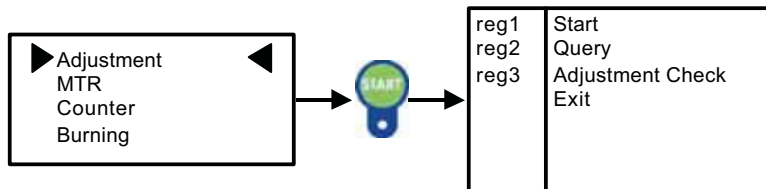
Step	Action
1	Select "Burning" and press  . <u>Result:</u> The machine starts an initialisation procedure followed by burning cycles.

4 Scanform™ VI Adjustment Cx, Pro

Adjustment Menu

This menu involves the scanner calibration procedure:

- Performing a calibration.
- Visualizing calibration values stored in memory.
- Controlling the scanner operation.




Start (adj1)

This “Start” option will actually start the calibration procedure.

It’s a step by step procedure, requiring the use of 4 specific tools, located into the user black box.



















For safety purpose, previous calibration values will be preserved if the ongoing calibration fails before reaching it’s very end.

Once fully performed, new calibration values will be taken into account, only if the “Save” option is chosen.

Step	Action
1	Select Run and press  . <u>Result:</u> The initialisation sequence is performed.













4 Scanform™ VI Adjustment Cx, Pro (continued)

Start (adj1) (continued)

Step	Action
2	<p>When the icon   comes up, insert the gain adjustment jig (shown below) as requested and press .</p>  <p>Result: The icon    comes up. You are asked to confirm the tool length engraved on the tool (default = 40.00 mm). You can change the length in increments of 0.01 mm using  and .</p>
3	<p>When the required length is displayed, press .</p> <p>Result: The icon    comes up. You are asked to confirm the tool height engraved on the tool (default = 24.00 mm). You can change the height in increments of 0.01 mm using  and .</p>
4	<p>When the required height is displayed, press .</p> <p>Result: The machine starts adjusting the gain.</p>
5	<p>When the machine has finished, use  and  to scroll through the following values:</p> <ul style="list-style-type: none"> • Tip offset • Rho gain • Z gain <p>Note: ! signifies that the value is out of range, in which case you must perform the Scanform calibration procedure again.</p>








4 Scanform™ VI Adjustment Cx, Pro (continued)

Start (adj1) (continued)

Step	Action	
6	To...	Press...
	Repeat the adjustment	 (go to step 2)
	Confirm the values and perform the next adjustment	 (go to step 7)
7	<p>When the icon   comes up, insert the scanform axis adjustment jig (shown below) as requested and press .</p>  <p>Result: The icon    comes up. You are asked to confirm the diameter of the round section (on the right) engraved on the tool (default = 40.00 mm). You can change the diameter in increments of 0.01 mm using  et .</p>	
8	<p>When the required diameter of the round section is displayed, press .</p> <p>Result: The machine scans the round section.</p>	




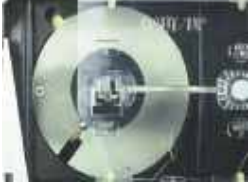










4 Scanform™ VI Adjustment Cx, Pro (continued)

Start (adj1) (continued)

Step	Action	
9	When the machine has finished, use  and  to scroll through the following values: <ul style="list-style-type: none"> • Thickness • Offset: • R insertion • Rho • Circumference • Radius: • Minimum • Maximum <p>Note: ! signifies that the value is out of range, in which case you must perform the Scanform calibration procedure again.</p>	
10	To scan the rectangular section on the left, press  .	
11	When the machine has finished, use  and  to scroll through the following values: <ul style="list-style-type: none"> • Frame axis • Circumference • Right Dx • Left Dx • R Dx - L Dx 	
12	To...	Press...
	Repeat the adjustment	 (go to step 7)
	Confirm the values and perform the next adjustment	 (go to step 13)










4 Scanform™ VI Adjustment Cx, Pro (continued)

Start (adj1) (continued)

Step	Action	
13	<p>When the icon   comes up, insert the pattern jig as requested with the round pattern (shown below) attached and press .</p>  <p><u>Result:</u> The icon    comes up. You are asked to confirm the diameter engraved on the tool (default = 40.00 mm). You can change the diameter in increments of 0.01 mm using  and .</p>	
14	<p>When the required diameter is displayed, press .</p> <p><u>Result:</u> The machine scans the round pattern.</p>	
15	<p>When the machine has finished, use  and  to scroll through the following values:</p> <ul style="list-style-type: none"> • Pattern offset • Circumference • Radius: <ul style="list-style-type: none"> • Minimum • Maximum 	
16	To...	Press...
	Repeat the adjustment	 (go to step 13)
	Confirm the values and perform the next adjustment	 (go to step 17)

4 Scanform™ VI Adjustment Cx, Pro (continued)





Start (adj1) (continued)

Step	Action	
17	<p>When the icon   comes up, insert the pattern jig as requested with the rectangular pattern (shown below) attached and press  .</p>  <p><u>Result:</u> The machine scans the rectangular pattern.</p>	
18	<p>When the machine has finished, use  and  to scroll through the following values:</p> <ul style="list-style-type: none"> • Pattern axis • Circumference • Pattern D • Pattern Dy 	
19	To...	Press...
	Repeat the adjustment	 (go to step 17)
	Save the adjustments and return to the <i>Adjustment</i> menu	
	Return to the adjustment menu without saving the parameters	

4 Scanform™ VI Adjustment Cx, Pro (continued)

Query (adj2)

The “Query” option will display all the scanform calibration parameters.

Step	Action
1	Select “Query” and press  .
2	Use  and  to scroll through the following values: <ul style="list-style-type: none"> • Z gain: Gain of the Z movement • Rho gain: Gain of the Rho movement • Rho offset: Offset of the Rho movement • Insertion offset: Offset of the Z movement (for insertion) • Frame axis: Axis correction for frames • R Dx: Right delta X • L Dx: Left Delta X • Pattern offset: Offset on pattern tracing • Pattern axis: Axis correction for patterns • Tip offset: Distance between the two stylus tips • Tip height: Insertion height • Pattern Dx: Pattern Delta X • Pattern Dy: Pattern Delta Y
3	Press  to return to the Adjustment menu.









4 Scanform™ VI Adjustment Cx, Pro (continued)

Check (adj3)

The “*Adjustment Check*” option is a routine to check if the scanform sizing and axis are still within the tolerances.

The procedure consists in tracing the frame tool (circle and rectangle). Internal checking are performed to see if the tracer must be re-calibrated.





This “check” procedure has to be performed once in a while by the operator’s.

Step	Action
1	Select “ <i>Adjustment Check</i> ” and press  .
2	Insert the scanform axis adjustment jig (shown below) as requested and press  .  <u>Result:</u> You are asked to confirm the diameter of the round section (on the right) engraved on the tool (default = 40.00 mm). You can change the diameter in increments of 0.01 mm using  and  .
3	When the required diameter of the round section is displayed, press  .
4	When the required diameter of the round section is displayed, press  and  : <ul style="list-style-type: none"> • Diameter • Circumference • Right Dx • Left Dx • Result of Right Dx – Left Dx • Axis <u>Result:</u> The machine advises you whether it needs to be calibrated. If so, refer to the procedure “ <i>Start (adj1)</i> ”.

5 Scanform™ IV Adjustment Cx, Pro





Access

Follow the steps below to adjust the scanform™ IV part of an Accura Cx or Pro.

Step	Action
1	Switch off the edger.
2	Hold the  key of the scanform™ while switching on the edger.
3	Press one or several times on the  and/or  keys until you access to the following: <div style="border: 1px solid black; border-radius: 10px; padding: 5px; display: inline-block; margin: 10px 0;">ADJUST</div>
4	Press the  key to start the scanform™ adjustment procedure.
5	Follow the instructions on the screen. The adjustments are developed below in the following order. <ul style="list-style-type: none"> • Gain on rho-axis (radius) • Gain on z axis (vertical) • Stylus introducing right height • Offset on rho axis (radius) • Stylus introducing left height • Axis • Pattern offset • Pattern axis.
6	Save the adjustment parameters. See paragraph <i>Adjustment Parameters Saving</i> below.

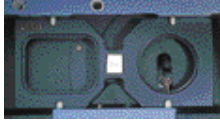






5 Scanform™ IV Adjustment Cx, Pro (continued)

Procedure

Adjustment	Display	Operator's Intervention
Gain on rho axis	<div style="border: 1px solid black; padding: 2px; display: inline-block;">R 4000</div>	<p>When the turret is in angular position (<---) and the green LED is flashing:</p> <ol style="list-style-type: none"> 1. Press the F2 key and/or F3 key until you display the R-value engraved on the tool (Example: R 40.10). 2. Remove the centering nose part. 3. Insert the axis tool (14 04 190). <div style="display: flex; align-items: center; margin-top: 10px;">  <div style="margin-left: 10px;">Value engraved</div> </div> 4. Press the  key to adjust the gain on rho axis. 5. Remove the adjustment tool when finished.
Gain on z axis	<div style="border: 1px solid black; padding: 2px; display: inline-block;">TOOL</div>	<p>When the green LED is flashing:</p> <ol style="list-style-type: none"> 1. <u>Insert the centering nose-part</u> 2. Insert the adjustment tool (14 04 185) on the frame-holder table bars. The round shape must be on the right side. <div style="display: flex; align-items: center; margin-top: 10px;">  <div style="margin-left: 10px;">40.01</div> </div> 3. Press the  key.







5 Scanform™ IV Adjustment Cx, Pro (continued)

Procedure (continued)

Adjustment	Display	Operator's Intervention
Right stylus introducing height	<div style="border: 1px solid black; padding: 2px; display: inline-block;">H INTRO</div>	<p>When the green LED is flashing:</p> <ol style="list-style-type: none"> 1. Check that the stylus is placed at the bottom of the tool plane area; if not place it manually. <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <ol style="list-style-type: none"> 2. Press the  key to validate the stylus position.
Offset on rho axis	<div style="border: 1px solid black; padding: 2px; display: inline-block;">4000</div>	<p>When the green LED is flashing:</p> <ol style="list-style-type: none"> 1. Press the F2 and/or F3 key until you display real diameter value engraved on the tool. <p><u>Example:</u> 40.01</p> <ol style="list-style-type: none"> 2. Press the  key to validate your data recording.
Left stylus introduction height	<div style="border: 1px solid black; padding: 2px; display: inline-block;">H INTRO</div>	<p>When the green LED is flashing:</p> <ol style="list-style-type: none"> 1. Check that the stylus is placed at the bottom of the tool plane area; if not place it manually. <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <ol style="list-style-type: none"> 2. Press the  key to validate the stylus position.




5 Scanform™ IV Adjustment Cx, Pro (continued)

Procedure (continued)

Adjustment	Display	Operator's Intervention
Axis	L AXIS	Left axis calibration is in progress. Process time is about 1 minute.
	R AXIS	<p>When the green LED is flashing:</p> <ol style="list-style-type: none"> 1. Turn the adjustment tool around to have the rectangular shape on the right side.  <ol style="list-style-type: none"> 2. Press the  key. 3. When the green LED is flashing (after about 1 minute), take the tool out.
Pattern offset	G 4000	<p>When the green LED is flashing:</p> <ol style="list-style-type: none"> 1. Remove the centering nose part. 2. Insert the round pattern (diameter 40mm) adjustment tool (14 04 192) on the pattern holder, contained in the accessory box (no special position).  <ol style="list-style-type: none"> 3. Press the  and/or  key until you display real diameter value engraved on the tool <u>Example</u> : 40.02 4. Press the  key. 5. When the green light is flashing, remove the tool.

5 Scanform™ IV Adjustment Cx, Pro (continued)



Procedure (continued)

Adjustment	Display	Operator's Intervention
Pattern Axis		<p>When the green LED is flashing:</p> <ol style="list-style-type: none"> 1. Insert the pattern axis adjustment tool (14 04 191) on the pattern holder, contained in the accessory box (no special position).  <ol style="list-style-type: none"> 2. Press the  key. 3. When the green light is flashing, remove the tool. 4. Place the centering nose part on the pattern holder.

Adjustment Parameters Saving

When all the adjustments are finished, the following message appears on screen.










IF...	THEN...
You wish to save the adjustment parameters	<p>Press the  key.</p> <p><u>Result:</u> The adjustment parameters are saved.</p>
You do not wish to save the adjustment parameters	<p>Press the  key.</p> <p><u>Results:</u> The adjustment parameters are not saved. The last parameters are still in memory.</p>

5 Scanform™ IV Adjustment Cx, Pro (continued)

Scanform™ IV Adjustment Parameters Display

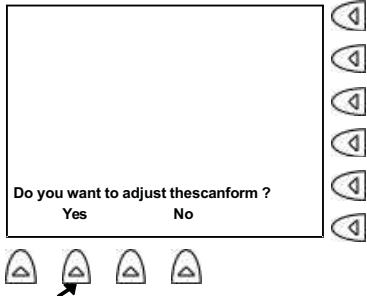
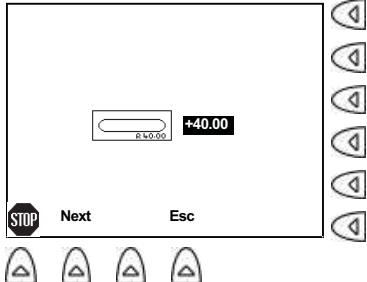
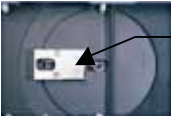
Follow the steps below to display the adjustment parameters of the scanform™.

Step	Action	
1	Switch off the edger.	
2	Hold the  key of the scanform™ while you switch on the edger.	
3	Press one or several times the  and/or  key until you access to the following: <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px 0;">DISPLAY</div>	
4	Press the  key to display the EEPROM content.	
5	Press the  and/or  key to scroll the adjustment parameters of the scanform™.	
	Display Value Example	Description
	G=1.248	Rho Gain
	OR=+0617	Rho Offset
	GZ=0896	Z Axis Gain
	OZ=0064	Z Axis Offset
	AXOD=262	Axis Correction for right eye
	AXOG=262	Axis Correction for left eye
	AXPT=262	Pattern Axis Correction
	OG=-0464	Pattern Offset
	XR=+0138	Right Side Delta X
	XL=-0246	Left Side Delta X
	IZL=0110	Left Introduction Height
	IZR=0111	Right Introduction Height
6	Press the  key to exit the mode.	

6 Scanform™ Adjustment Sx


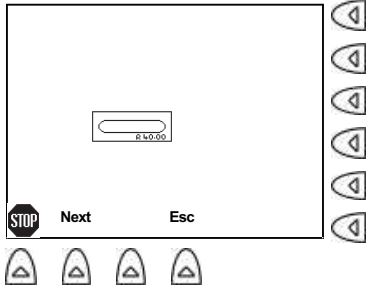


Procedure

Follow the steps below to adjust the scanform™ for an Accura Sx.

Step	Action	Diagram
1	Switch off the edger.	-
2	Hold the 1 key while switching on the edger.	-
3	Go to the next screen of the adjustment dialog.	
4	Press the Yes key. <u>Result:</u> The next screen comes up.	
5	Insert the adjustment tool n° 14 04 190 on the turret protective cover.	
6	Press the + and/or - until you display the R-value engraved on the tool (<u>Example:</u> R40.01).	-

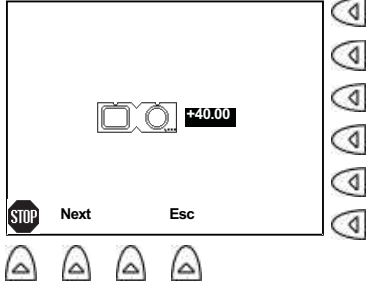




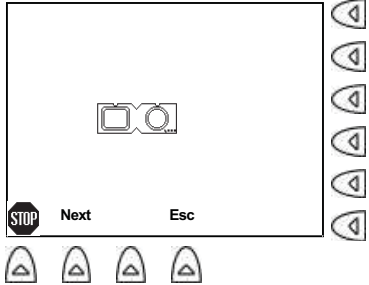
6 Scanform™ Adjustment Sx (continued)

Procedure (continued)

Step	Action	Diagram
7	<p>Press the  key to validate the displayed value.</p> <p><u>Note:</u> If you validate by mistake a wrong pattern size, you can go back by pressing the Esc key; so the value is highlighted again and you can enter a new one.</p>	-
8	<p>Press the Next key.</p> <p><u>Result:</u> The next screen comes up.</p>	
9	<p>Press the  key to start the gain adjustment.</p> <p><u>Result:</u> The stylus measures the r and R positions.</p> <p><u>Note:</u> If you have any problem during the adjustment, press the  key to stop this adjustment then start it again.</p>	-


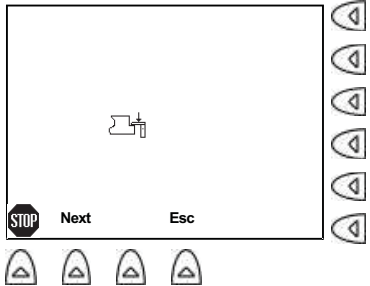


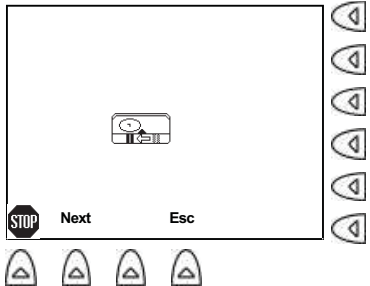
6 Scanform™ Adjustment Sx (continued)

Procedure (continued)

Step	Action	Diagram
10	When the adjustment is finished , remove the gain adjustment tool.	-
11	Press the Next key. <u>Result:</u> The next screen comes up.	
12	Insert the adjustment tool (round side to the right) n° 14 04 195 on the frame holder.	 40.02
13	Press the  and/or  to display the value engraved on the tool (Example: 39.98).	-
14	Press the  key to validate the displayed value.	-
15	Press the Next key. <u>Result:</u> The next screen comes up.	


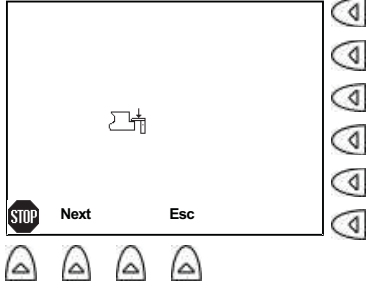


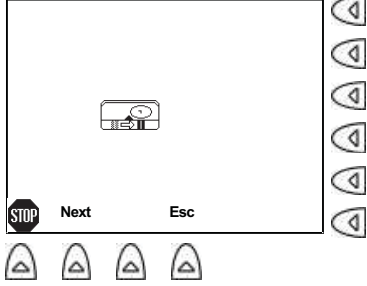
6 Scanform™ Adjustment Sx (continued)

Procedure (continued)

Step	Action	Diagram
16	Press the  key to start the right height adjustment and the stylus introduction. <u>Result:</u> The next screen comes up.	
17	Place the stylus at the bottom of the tool plane area.	
18	Press the  key to continue the Scanform™ adjustment.	-
19	When the adjustment is finished , press the Next key. <u>Result:</u> The next screen comes up.	
20	Transfer the stylus to the left, with the control knob of the Scanform™.	-

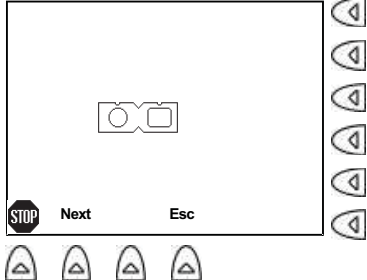


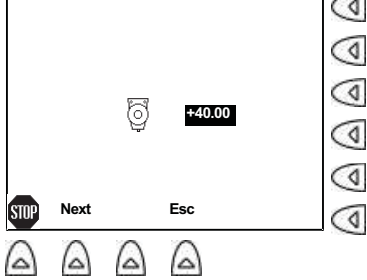
6 Scanform™ Adjustment Sx (continued)

Procedure (continued)

Step	Action	Diagram
21	<p>Press twice the  key to continue the Scanform™ adjustment.</p> <p><u>Result:</u> The stylus is placed in left eye introduction and the next screen comes up.</p>	
22	Place the stylus at the bottom of the tool plane.	
23	<p>Press the  key to continue the Scanform™ adjustment.</p> <p><u>Result:</u> The left eye scanning performs.</p>	-
24	<p>When the adjustment is finished, press the Next key.</p> <p><u>Result:</u> The next screen comes up.</p>	






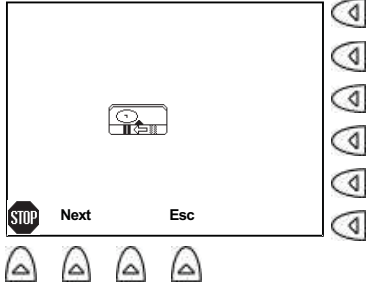

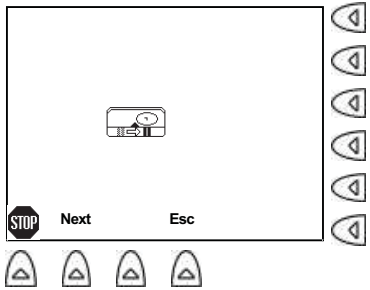
6 Scanform™ Adjustment Sx (continued)

Procedure (continued)

Step	Action	Diagram
25	Transfer the stylus to the right. <u>Result:</u> The next screen comes up.	
26	Flip the tool n° 14 04 195 (round side to the left).	
27	Press the  key to continue the Scanform™ adjustment. <u>Result:</u> The stylus is placed in right eye introduction and scans the rectangular shape.	-
28	When the adjustment is finished , remove the tool n° 14 04 195.	-
29	Press the Next key. <u>Result:</u> The next screen comes up.	

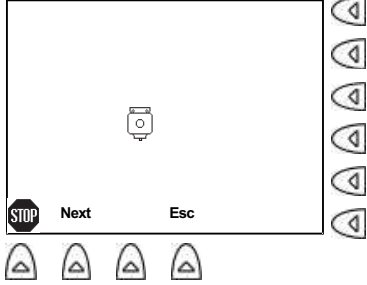

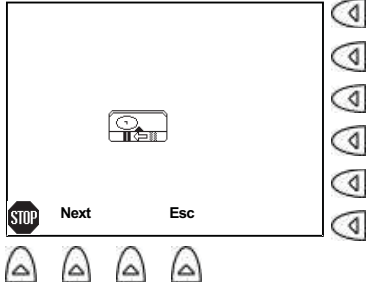
6 Scanform™ Adjustment Sx (continued)

Procedure (continued)

Step	Action	Diagram
30	Insert the pattern n° 14 04 192 (∅ 40 mm) on the pattern holder.	-
31	Insert the pattern holder on the frame holder.	
32	Press the  and/or  keys until you display the pattern diameter value.	-
33	Press the  key to validate the pattern size.	-
34	Press the Next key.	-
35	Press the  key. <u>Result:</u> The next screen comes up.	
36	Transfer the stylus to the left.	-
37	Press the  key. <u>Result:</u> The stylus scans the pattern then the next screen comes up.	


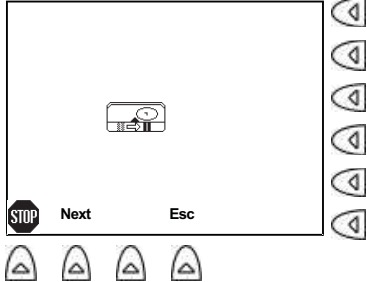
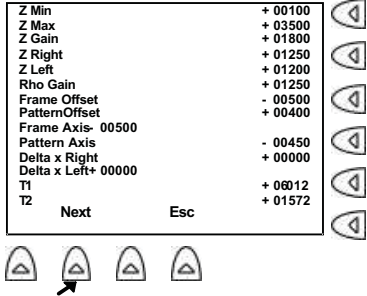
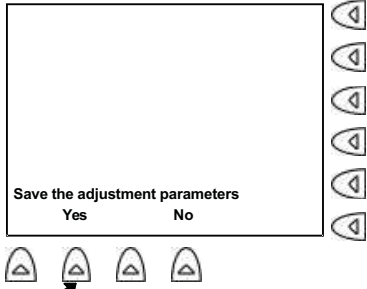
6 Scanform™ Adjustment Sx (continued)

Procedure (continued)

Step	Action	Diagram
38	Transfer the stylus to the right.	-
39	Press the Next key. <u>Result:</u> The next screen comes up.	
40	Insert the pattern n° 14 04 191 on the pattern holder.	-
41	Insert the pattern holder on the frame holder.	
42	Press the OK key. <u>Result:</u> The next screen comes up.	
43	Transfer the stylus to the left.	-

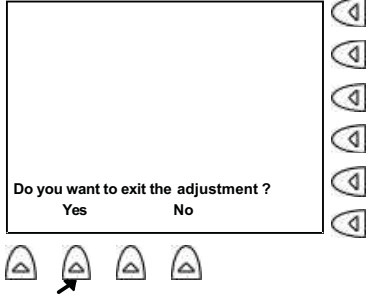
6 Scanform™ Adjustment Sx (continued)

Procedure (continued)

Step	Action	Diagram																												
44	Press the  key. <u>Result:</u> The stylus scans the pattern then the next screen comes up.																													
45	Transfer the stylus to the right.	-																												
46	Remove the pattern holder and the tool n° 14 04 191 .	-																												
47	Press the Next key. <u>Result:</u> The next screen comes up.	 <table border="1" data-bbox="954 852 1274 1060"> <tr><td>Z Min</td><td>+ 00100</td></tr> <tr><td>Z Max</td><td>+ 03500</td></tr> <tr><td>Z Gain</td><td>+ 01800</td></tr> <tr><td>Z Right</td><td>+ 01250</td></tr> <tr><td>Z Left</td><td>+ 01200</td></tr> <tr><td>Rho Gain</td><td>+ 01250</td></tr> <tr><td>Frame Offset</td><td>- 00500</td></tr> <tr><td>PatternOffset</td><td>+ 00400</td></tr> <tr><td>Frame Axis- 00500</td><td></td></tr> <tr><td>Pattern Axis</td><td>- 00450</td></tr> <tr><td>Delta x Right</td><td>+ 00000</td></tr> <tr><td>Delta x Left+ 00000</td><td></td></tr> <tr><td>T1</td><td>+ 00012</td></tr> <tr><td>T2</td><td>+ 01572</td></tr> </table>	Z Min	+ 00100	Z Max	+ 03500	Z Gain	+ 01800	Z Right	+ 01250	Z Left	+ 01200	Rho Gain	+ 01250	Frame Offset	- 00500	PatternOffset	+ 00400	Frame Axis- 00500		Pattern Axis	- 00450	Delta x Right	+ 00000	Delta x Left+ 00000		T1	+ 00012	T2	+ 01572
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Delta x Right	+ 00000																													
Delta x Left+ 00000																														
T1	+ 00012																													
T2	+ 01572																													
48	Press the Next key. <u>Result:</u> The next screen comes up.																													

6 Scanform™ Adjustment Sx (continued)

Procedure (continued)

Step	Action	Diagram
49	Press the Yes key to save the Scanform™ adjustment. <u>Result:</u> The next screen comes up.	
50	Press the Yes key to exit the Technician adjustment dialog. <u>Result:</u> The machine reinitialises then the scanning screen comes up.	-

V ADJUSTMENTS FOR OPERATORS

1	Presentation.....	V-1-1
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	Procedure	V-6-1

1 Presentation

Access

You can access Operator's adjustments directly from the scanning screen of the operator dialog.

Structure



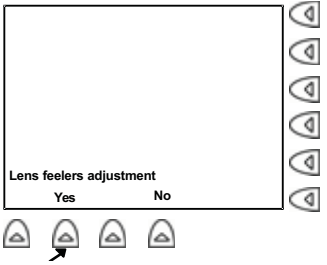
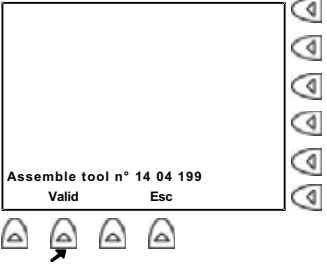


The following adjustments or configurations are explained in this chapter.

1. Lens Feeler Adjustment.
2. Stylus Introduction Height Adjustment.
3. Wheel Dressing.
4. Size Adjustments (reset sizes).

2 Lens Feelers Adjustment

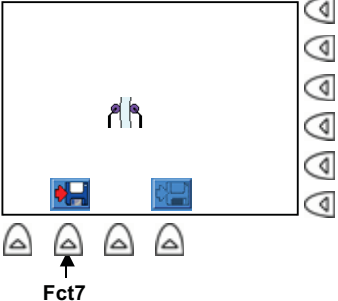
Procedure

Follow the steps below to adjust the scanning system.

Step	Action	Diagram
1	Go to the scanning screen.	-
2	Press simultaneously the  and  keys. <u>Result:</u> The following screen comes up.	
3	Press the Yes key. <u>Result:</u> The following screen comes up.	
4	Put adjustment tool n° 14 04 199 on the lens adapter shaft (left side).	
5	Press the  key to close lens clamping.	-
6	Press the Valid key. <u>Result:</u> The adjustment is automatically performing.	-

2 Lens Feelers Adjustment (continued)

Procedure (continued)

Step	Action	Diagram
7	When the adjustment is performed, remove the tool n° 14 04 199 and press on Valid .	-
8	Press the Fct7 key to save the adjustment. <u>Result:</u> The scanning screen comes up.	

Note: This calibration influences the bevel tracking. A calibration performed poorly can induce a bad work quality of the edger.












3 Stylus Introduction Height Adjustment Scanform IV – Cx, Pro

Necessity

This adjustment can be performed when the Scanform™ stylus does not correctly insert in the frame, **whatever the frame**.

Procedure

Follow the steps below to perform the adjustment.

Step	Action	Diagram
1	Press the  and  keys simultaneously. <u>Result:</u> The next screen comes up.	
2	Insert tool n° 14 04 185 , as illustrated on the opposite picture, and press the  key.	
3	Whenever the "H INTRO" message is displayed on the screen , check that the stylus is placed at the bottom of the tool plane area (round side) or place it manually. If it is not  and press the  key.	
4	Whenever the "H INTRO" message is displayed on the screen , check that the stylus is placed at the bottom of the tool plane area (square side) or place it manually. If it is not  and press the  key.	
5	When the adjustment is finished , remove the tool from the Scanform™.	-



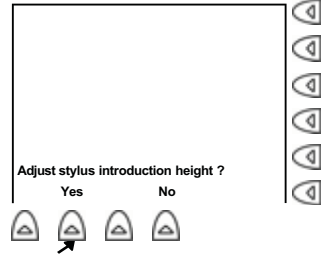






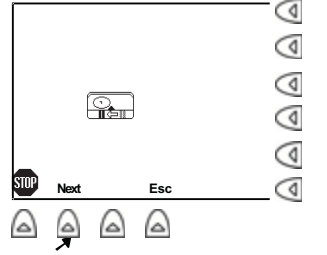
4 Stylus Introduction Height Adjustment Sx

Necessity

This adjustment can be performed when the Scanform™ stylus does not correctly insert in the frame, **whatever the frame**.


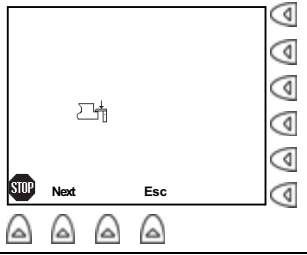



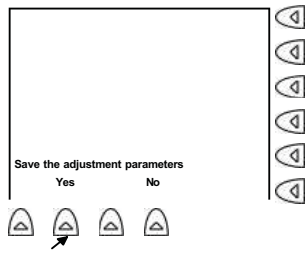
Procedure

Follow the steps below to perform the adjustment.

Step	Action	Diagram
1	<p>When you are in scanning mode, press simultaneously the  and  keys.</p> <p><u>Result:</u> The following screen comes up.</p>	
2	Press the Yes key.	
3	Insert tool n° 14 04 185 , as illustrated on the opposite picture.	
4	<p>Press the  key.</p> <p><u>Result:</u> The stylus is placed in the groove of the frame and the next screen comes up.</p>	
5	<p>Place the stylus at the bottom of the tool plane area.</p> 	
6	Press the  key.	
7	<p>Press the Next key.</p> <p><u>Result:</u> The following screen comes up.</p>	

4 Stylus Introduction Height Adjustment Sx (continued)



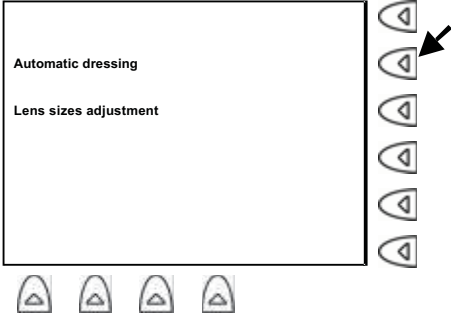

Procedure (continued)

Step	Action	Diagram
8	Move the stylus to the left.	-
9	Press the  key. <u>Result:</u> The following screen comes up.	
10	Place the stylus at the bottom of the tool plane area. 	
11	Press the  key.	-
12	Press the Next key. <u>Result:</u> The following screen comes up.	
13	Press the Yes key to save the stylus introduction height.	-
14	Remove the tool n°14 04 195.	-

5 Wheel Dressing

Procedure



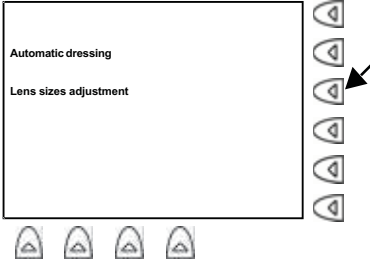



Follow the steps below to dress a wheel.

Step	Action
1	<p>When you are in scanning mode, press simultaneously the  and  keys.</p> <p><u>Result:</u> The following screen comes up.</p> 
2	Select the line <i>Automatic dressing</i> .
3	Put on the large adapters.
4	Select the wheel to dress.
5	Load the dressing disk adapted to the wheel to dress, contained in the accessory box.
6	Press the  key.
7	When the dressing is completed , remove the disk from the edger.
8	Press the Confirm key.
9	Press several times the Esc key to quit the adjustment.
10	Adjust the sizes (see paragraph 6 <i>Size adjustment (reset sizes)</i> below).

6 Size Adjustment (reset sizes)

Procedure

Follow the steps below to adjust the sizes.

Step	Action														
1	<p>When you are in scanning mode, press simultaneously the  and  keys.</p> <p>Result: The following screen comes up.</p> 														
2	Select the line <i>Lens size adjustment</i> .														
3	<p>Insert a lens with a diameter \geq to 60 mm.</p> <table border="1"> <thead> <tr> <th>Adjustment</th> <th>Lens Using</th> </tr> </thead> <tbody> <tr> <td>1. Finishing Rimless</td> <td>Mineral</td> </tr> <tr> <td>2. Mineral roughing</td> <td>Mineral</td> </tr> <tr> <td>3. Plastic roughing</td> <td>Plastic</td> </tr> <tr> <td>4. Finishing bevel</td> <td>Mineral</td> </tr> <tr> <td>5. Polishing Rimless</td> <td>Plastic</td> </tr> <tr> <td>6. Polishing Bevel</td> <td>Plastic</td> </tr> </tbody> </table>	Adjustment	Lens Using	1. Finishing Rimless	Mineral	2. Mineral roughing	Mineral	3. Plastic roughing	Plastic	4. Finishing bevel	Mineral	5. Polishing Rimless	Plastic	6. Polishing Bevel	Plastic
Adjustment	Lens Using														
1. Finishing Rimless	Mineral														
2. Mineral roughing	Mineral														
3. Plastic roughing	Plastic														
4. Finishing bevel	Mineral														
5. Polishing Rimless	Plastic														
6. Polishing Bevel	Plastic														
4	Press the OK key.														
5	When the edging is completed , measure the diameter of the edged lens with a digital calliper.														
6	Enter the measured value, with the  and/or  keys <u>or</u> with the keyboard.														
7	Press the  key to confirm the finishing rimless size adjustment.														
8	Adjust the following size. Repeat from step 3 of this procedure.														
9	When the size adjustment is completed , save your adjustment.														

VI DIAGNOSIS TOOLS

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1 Edger Test Program

Introduction

1. The goal of this menu is to do the test of each part of the machine independently.
2. Each test can be done without removing the main cover of the machine.
3. These tests are very useful for Tele-diagnostic.

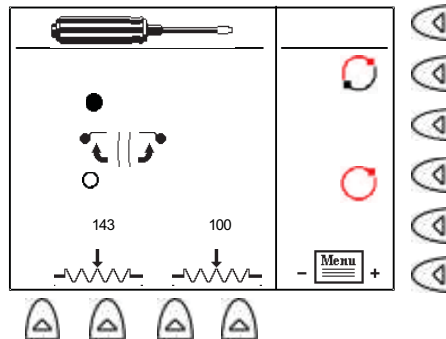
Access/Working

Follow the steps below to test the edger.

Step	Action
1	Switch the edger off.
2	Hold the  key while you switch on the edger. <u>Result:</u> The first test screen comes up.
3	Make the desired test (see paragraph <i>Test Screen: Diagram/Description</i> below).
4	Go to the step 3 of this procedure until you made all necessary tests (see paragraph <i>Structure/Progress</i> below).
5	Switch the edger off to stop the maintenance test program.

1 Edger Test Program (continued)

Test Screen: Colour Diagram/Description



Key	Function
	Makes the step-by-step test (by successive pressures on this key)
	Makes the loop test
	Access to the following test
	Access to the previous test
	Stop the loop test

Symbol	Description
	Closed End Stroke Indicator
	Opened End Stroke Indicator
	<ul style="list-style-type: none"> Encoder Position [OK] means the encoder self test is correct [FAIL] means the encoder self test is incorrect (encoder to be changed)
	Potentiometer Position

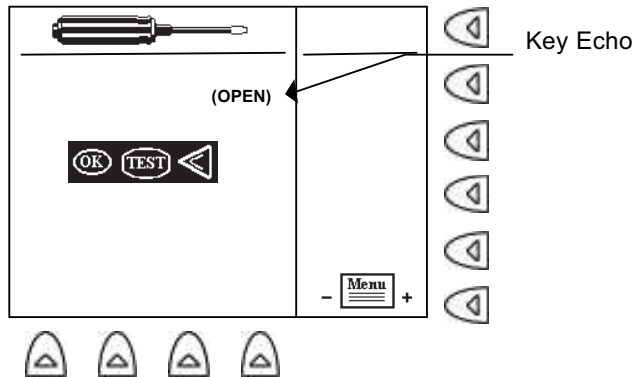
1 Edger Test Program (continued)

Keyboard Test Sx, Cx, Pro, Lab, CI

Follow the steps below to test the keyboard.

1. Press the key corresponding to the key to test.

Result: The key echo comes up.

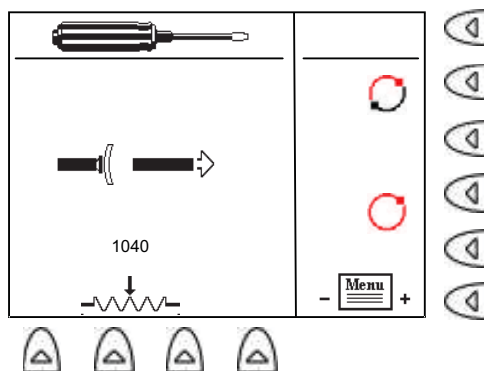


2. Go to the step 1 of this procedure until you have tested all the keys.

Clamping Test Sx, Cx, Pro, Lab, CI

The machine is testing the following points.

1. Approached Clamping at 20 kg.
2. Clamping at 60 kg.
3. Loosening at 20 kg.
4. Chucks Opening.



Note: You can check the real clamping pressure of the machine by mounting the dynamometer between the lens clamping shafts

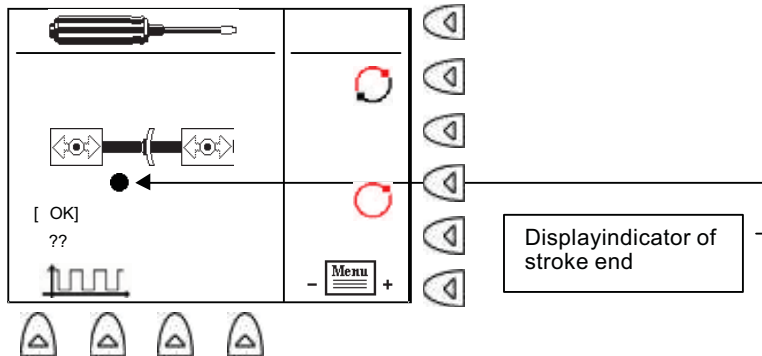
1 Edger Test Program (continued)

Translation Test Sx, Cx, Pro, Lab, CI

The machine is testing the following points.

1. Carriage position in left thrust.
2. Carriage position in right thrust.
3. Carriage position in center.

Real-time display of encoder position and status [OK] or [FAIL].

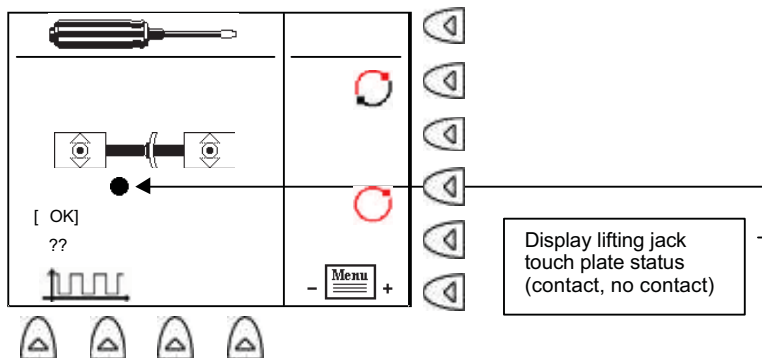


Lifting Jack Test Sx, Cx, Pro, Lab, CI

The machine is testing the following points.

1. Lifting jack in high position.
2. Lifting jack in rest position.
3. Lifting jack in low position.

Real-time display of encoder position and its state [OK] or [FAIL].



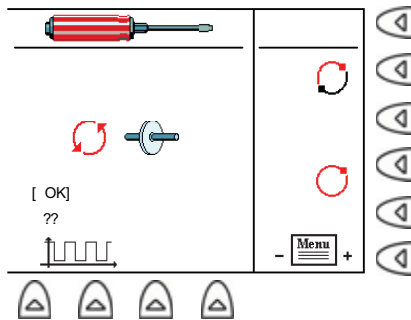
1 Edger Test Program (continued)

Rotation Test Sx, Cx, Pro, Lab, CI

The machine is testing the following points.

1. Rotation in fast speed.
2. Rotation in normal speed.
3. Rotation in normal speed in opposite direction.
4. Rotation Stop.

Real-time display of encoder position and status [OK] or [FAIL].



Wheels Motor and Pump Test Pro, Lab, CI

The machine is testing the following points.

1. Starting of the wheel motor.
2. 3 800 tr/min Rotation speed
3. 6 500 tr/min Rotation speed
4. Stopping of the wheel motor.
5. Starting of the pump.
6. Stopping of the pump.

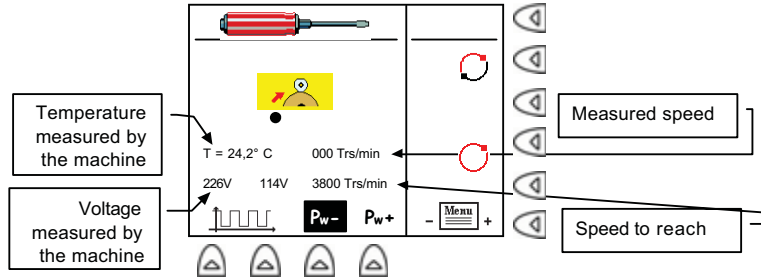
1 Edger Test Program (continued)

Wheels Motor and Pump Test Pro, Lab, CI (continued)

Real-time display of power supply voltage.

- Read the left value in case of a 220 V machine.
- Read the right value in case of a 110 V machine.

Real-time display of temperature of the edging station.



Rotation test by pressing the following key:

- Pw-** To test the 3 800 tr/min rotation
- Pw+** To test the 6 500 tr/min rotation.

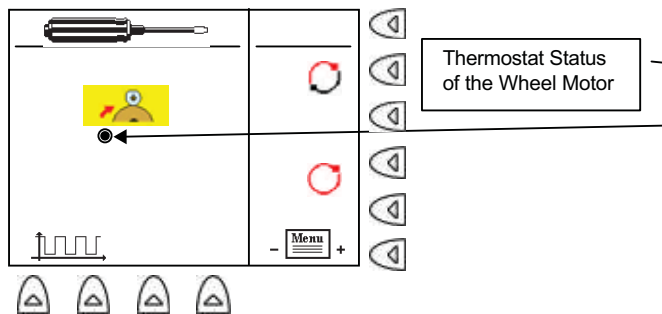
Wheels Motor and Pump Test Sx, Cx, CI

The machine is testing the following points.

1. Starting the wheel motor.
2. Stopping the wheel motor.
3. Starting the pump.
4. Stopping the pump.

Real-time display of power supply voltage.

- Read the left value in case of a 220 V machine.
- Read the right value in case of a 110 V machine.

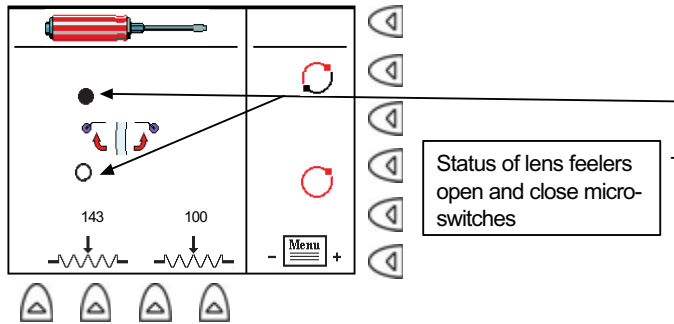


1 Edger Test Program (continued)

Lens Feelers Test Sx, Cx, Pro, Lab, CI

The machine is testing the following points.

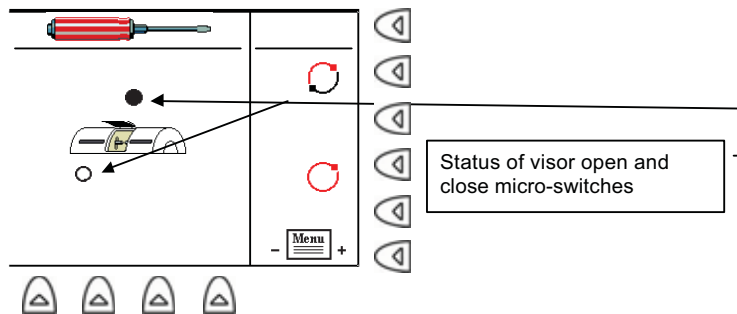
1. Closing of the lens feelers.
2. Opening of the lens feelers.



Visor Test Sx, Cx, Pro, Lab, CI

The machine is testing the following points.

1. Closing of the visor.
2. Opening of the visor.

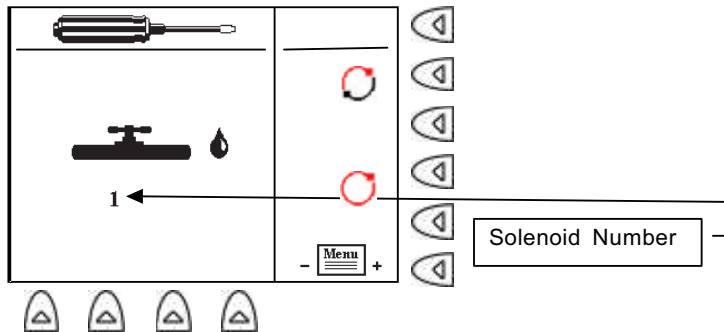


1 Edger Test Program (continued)

Solenoid Valves Test Sx, Cx, Pro, Lab, CI

The machine is testing the following points.

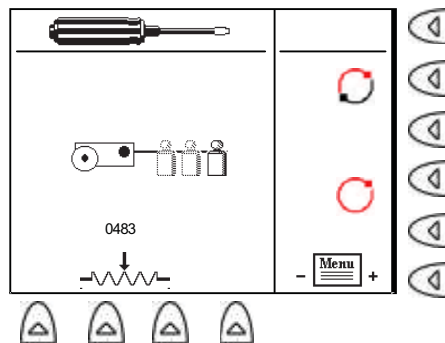
1. Opening the main spray (1).
2. Closing the main spray (1).
3. Opening the visor spray (2).
4. Closing the visor spray (2).
5. Opening the polycarbonate spray (3).
6. Closing the polycarbonate spray (3).



Counterweight Test (Edging pressure) Cx, Pro, Lab, CI

The machine is testing the following points.

1. Maximum position of the counterweight.
2. Intermediate position of the counterweight.
3. Minimum position of the counterweight.

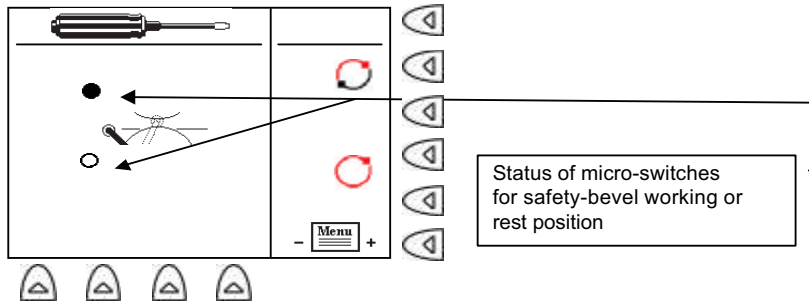


1 Edger Test Program (continued)

Safety-bevel and Groove Test Cx, Pro, Lab, CI

The machine is testing the following points.

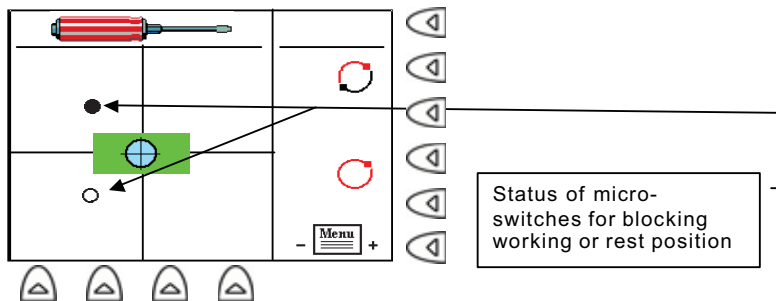
1. Working position of the counter-bevel and groove wheel.
2. Rest position of the counter-bevel and groove wheel.



Blocker Test Cx, Pro

The machine is testing the following points.

1. Blocking position.
2. Rest position.

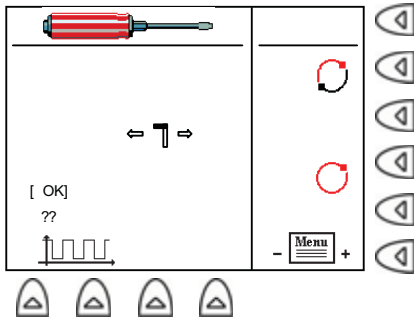


1 Edger Test Program (continued)

Scanform™ Test: Stylus Introduction (rho test) Sx

The machine tests the following points.

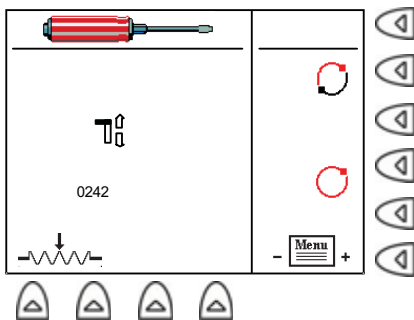
1. Stylus introduction motor Test.
2. Scanform™ Encoder Working Test (ρ radius measurement).



Scanform™ Test: Stylus Height (test z) Sx

The machine tests the following points.

1. Height motor test (z).
2. Z potentiometer test.

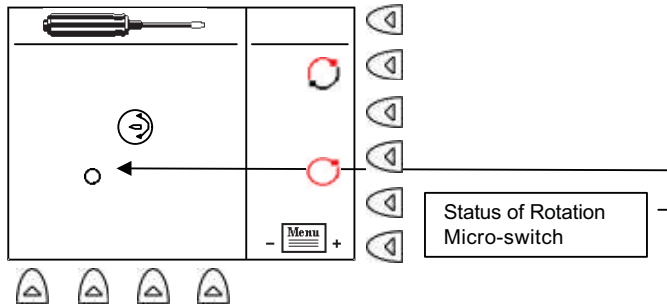


1 Edger Test Program (continued)

Scanform™ Test: Turret Rotation (rotation) Sx

The machine tests the following points.

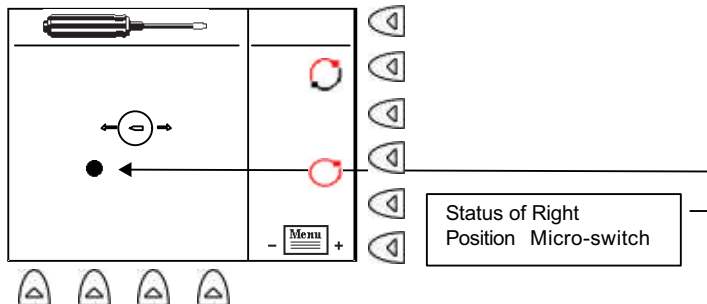
1. Rotation end stroke contact test.
2. Stopper motor test.



Note: During the test, the thrust micro-contact state changes too quickly to be visibly displayed. It can be activated manually.

Scanform™ Test: Translation (translation) Sx

The machine tests the translation end stroke contact.

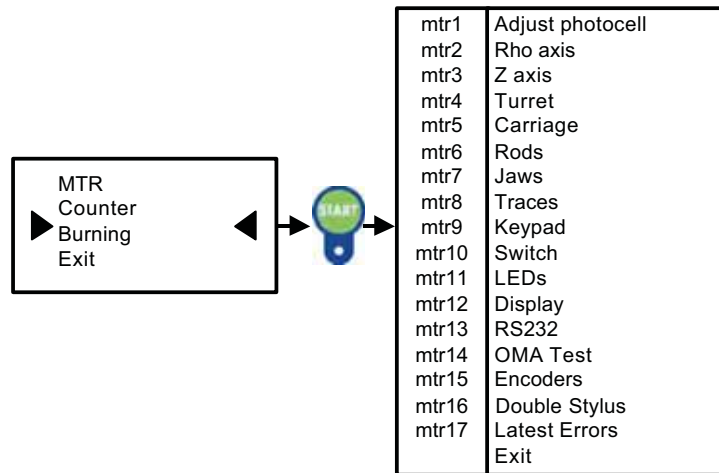


2 Scanform™ VI Tests – Cx, Pro

Menu MTR

This menu involves the scanner Maintenance Test Routines:

- Individual test for each movement
- Test of the LCD screen
- RS 232 check up
- Simulation of a frame tracing.



Adjust photocell (mtr1)






To adjust the photocell, proceed as follows.

Step	Action
1	Select "Adjust Photocell" and press . <u>Result:</u> The machine starts the continuous turret rotation and displays the cyclic ratio.
2	Move the photocell coupler holder to the right or left to bring the value of the cyclic ratio around 50. <u>Note:</u> The and arrows show you in which direction you have to move the photocell coupler holder.
3	When the value displayed is close to 50 and there is no more arrows displayed, tighten the screws of the photocell coupler holder – Press to stop the rotation.

2 Scanform™ VI Tests – Cx, Pro (continued)

Rho Axis (mtr2)





To test the rho movement, proceed as follows.

Step	Action	
1	Select "Rho Axis" and press  . <u>Result:</u> The Rho axis menu is displayed.	
2	<ul style="list-style-type: none"> • Select Single Mvt to perform just one movement and go to step 3 Or • Select Continuous Mvt to perform continuous movements and go to step 4. <u>Result:</u> The machine performs one movement and lists the Rho values.	
3	Press  to return to the Rho axis menu described in step 2 . <u>Result:</u> The machine performs continuous Rho movements, measured in cycles.	
4	Press  to interrupt the procedure.	
	To...	Press...
	Resume the procedure	
	Stop the procedure and return to the Rho axis menu in step 2	

2 Scanform™ VI Tests – Cx, Pro (continued)

Z Axis (mtr3)





To test the Z axis, proceed as follows.

Step	Action	
1	Select “Z Axis” and press  . <u>Result:</u> The Z axis menu is displayed.	
2	<input type="checkbox"/> Select Single Mvt to perform just one movement and go to step 3 Or 1. Select Continuous Mvt to perform continuous movements and go to step 4. <u>Result:</u> The machine performs one movement and lists the Z values.	
3	Press  to return to the Z axis menu described in step 2.	
4	To...	Press...
	Resume the procedure	
	Stop the procedure and return to the Z axis menu in step 2	

2 Scanform™ VI Tests – Cx, Pro (continued)

Turret (mtr4)






To test the turret, proceed as follows.

Step	Action	
1	Select "Turret" and press  . <u>Result:</u> The <i>Turret</i> menu is displayed.	
2	<input type="checkbox"/> Select Single Mvt to perform just one movement and go to step 3 Or 2. Select Continuous Mvt to perform continuous movements and go to step 4. <u>Result:</u> The machine performs one movement and lists the Turret values.	
3	Press  to return to the Turret menu described in step 2.	
4	To...	Press...
	Resume the procedure	
	Stop the procedure and return to the Turret menu in step 2	

2 Scanform™ VI Tests – Cx, Pro (continued)

Carriage (mtr5)





To test the carriage, proceed as follows.

Step	Action	
1	Select "Carriage" and press  . <u>Result:</u> The Carriage menu is displayed.	
2	<ul style="list-style-type: none"> • Select Single Mvt to perform just one movement and go to step 3 Or • Select Continuous Mvt to perform continuous movements and go to step 4. <u>Result:</u> The machine performs one movement and lists the Carriage values.	
3	Press  to return to the Carriage menu described in step 2. <u>Result:</u> The machine performs continuous movements, measured in cycles.	
4	Press  to interrupt the procedure.	
5	To...	Press...
	Resume the procedure	
	Stop the procedure and return to the Carriage menu in step 2	

2 Scanform™ VI Tests – Cx, Pro (continued)

Rods (mtr6)





To test the rod system, proceed as follows.

Step	Action	
1	Select "Rods" and press  . <u>Result:</u> The Rods menu is displayed.	
2	Select "Rod Init. Mvt" to initialize the rod system.	
3	<ul style="list-style-type: none"> • Select Single Mvt to perform just one movement and go to step 4 Or <ul style="list-style-type: none"> • Select Continuous Mvt to perform continuous movements and go to step 5. <u>Result:</u> The machine performs one movement and lists the Rods values.	
4	Press  to return to the Rods menu described in step 2. <u>Result:</u> The machine performs continuous movements, measured in cycles.	
5	To...	Press...
	Resume the procedure	
	Stop the procedure and return to the Rods menu in step 2	

2 Scanform™ VI Tests – Cx, Pro (continued)

Jaws (mtr7)




To test the jaws system, proceed as follows.

Step	Action	
1	Select “Jaws” and press  . <u>Result:</u> The Jaws menu is displayed.	
2	<ul style="list-style-type: none"> • Select Single Mvt to perform just one movement and go to step 3. <u>or</u> • Select Continuous Mvt to perform continuous movements and go to step 5. <u>Result:</u> The machine performs one movement and lists the Jaws values.	
3	Press  to return to the Jaws menu described in step 2. <u>Result:</u> The machine performs continuous movements, measured in cycles.	
4	To...	Press...
	Resume the procedure	
	Stop the procedure and return to the Jaws menu in step 2	

2 Scanform™ VI Tests – Cx, Pro (continued)







Traces (mtr8)

To run a scan cycle, proceed as follows.

Step	Action
1	Select "Traces" and press  . <u>Result:</u> The machine starts the initialisation procedure.
2	When <i>Insert tool:</i> is displayed, insert a frame and press  . <u>Result:</u> The machine starts performing continuous scan cycles.
3	Press  to end the procedure and return to the MTR menu.

Keypad (mtr9)

To test the keypad, proceed as follows.



Step	Action
1	Select "Keypad" and press  .
2	Select keys:      <u>Result:</u> Each time you press a key, the box next to it is checked. If no fault is detected, you are returned to the MTR menu when you have pressed all the keys.

2 Scanform™ VI Tests – Cx, Pro (continued)

Switch (mtr10)

It is possible to test in real time each micro switch of the tracer with this test


To test the micro switches, proceed as follows:

Step	Action						
1	Select "SWITCH" and press  .						
2	<p>The list of micro switches is displayed:</p> <ul style="list-style-type: none"> • 055: Turret micro-switch • 056R: Rods micro-switch right position (waiting for a frame) • 056L: Rods micro-switch left position (tracing a frame) • 057: Jaw open micro-switch • 058: Carriage micro-switch • 059L: Frame detection micro-switch on left side • 059R: Frame detection micro-switch on right side. <p><u>Note</u>: The reference displayed corresponds to the three last digits of the Briot reference for the micro-switch(es).</p> <p><u>Example</u>: 02 71 056: Rods micro-switches → referenced 056.</p>						
3	<p>Press on the micro-switch to test.</p> <table border="1" data-bbox="375 1136 1338 1339"> <thead> <tr> <th data-bbox="375 1136 862 1182">If...</th> <th data-bbox="862 1136 1338 1182">Then...</th> </tr> </thead> <tbody> <tr> <td data-bbox="375 1182 862 1262">The tick sign ✓ is displayed in front of the corresponding micro-switch reference</td> <td data-bbox="862 1182 1338 1262">The micro-switch works properly</td> </tr> <tr> <td data-bbox="375 1262 862 1339">Nothing is displayed in front of the corresponding micro-switch reference</td> <td data-bbox="862 1262 1338 1339">The micro-switch does not work</td> </tr> </tbody> </table>	If...	Then...	The tick sign ✓ is displayed in front of the corresponding micro-switch reference	The micro-switch works properly	Nothing is displayed in front of the corresponding micro-switch reference	The micro-switch does not work
If...	Then...						
The tick sign ✓ is displayed in front of the corresponding micro-switch reference	The micro-switch works properly						
Nothing is displayed in front of the corresponding micro-switch reference	The micro-switch does not work						
4	Press  to end the procedure and return to the MTR menu.						

2 Scanform™ VI Tests – Cx, Pro (continued)


LEDs (mtr11)

To test the LEDs, proceed as follows.

Step	Action
1	Select “LEDs” and press  . <u>Result:</u> The machine illuminates each LED in turn. It does so twice, and if no fault is detected, it returns to the MTR menu.

Display (mtr12)


To test the display, proceed as follows.

Step	Action
1	Select “Display” and press  . <u>Result:</u> The screen slowly changes from no contrast to full contrast. The machine performs this three times, and if no fault is detected, it returns to the MTR menu.

2 Scanform™ VI Tests – Cx, Pro (continued)




RS 232 (mtr13)

To test the RS 232 C connection, proceed as follows.

Step	Action
1	Connect the RS-232 OMA (# 01 74 080) cable between the OMA serial port and the Barcode serial port. Use Adapter Sub D 9 pins male / male.
2	<p>Select "RS 232" and press .</p> <p><u>Result:</u> A status message is displayed:</p> <ul style="list-style-type: none"> • OK means that the RS-232 connection is operational in the indicated direction. • NOT OK means that the RS-232 connection is not operational in the indicated direction.

OMA (mtr14)



To test the OMA link, proceed as follows:

Step	Action
1	<p>Select "OMA TEST" and press .</p> <p><u>Result:</u> The icon  is displayed during the test. The result is then displayed:</p> <ul style="list-style-type: none"> - OMA OK: No problem on the OMA link - OMA NOK: A problem has been detected on the OMA link. The text and error code are displayed if the PC returns them.
2	<p>Press  to end the procedure and return to the MTR menu.</p>

2 Scanform™ VI Tests – Cx, Pro (continued)

Encoders (mtr15)

To test the encoders, proceed as follows:

Step	Action
1	Select “Encoders” and press  . <u>Result:</u> The Encoders menu is displayed.
2	Select the encoder you want to test into the list: <ul style="list-style-type: none"> • AXE RHO • AXE Z • RODS <u>Note:</u> To test the frame thickness encoder (Rods), you must initialize the rods movement using “ Rod Init. Mvt”.
3	Move the selected axis to display the encoder output: <ul style="list-style-type: none"> • AXE RHO: Move back and forth the sliding unit • AXE Z: Move the stylus up and down • RODS: Open the front jaw left pinch. <u>Result:</u> The encoder output is displayed.
4	Press  to return to the menu “ENCODER” on step 2.





Double Stylus (mtr16)

This test checks the alignment of the two stylus tips after manufacturing. It is reserved to the Scanform™ manufacturing department.

2 Scanform™ VI Tests – Cx, Pro (continued)

Latest Errors (mtr17)


















To display the 20 latest errors returned by the Scanform, proceeds as follows:

Step	Action
1	Select "LATEST ERRORS" and press  . <u>Result:</u> The most recent error is displayed.
2	Press  and  to scroll through the 20 latest errors.
3	Press  to end the procedure and return to the MTR menu.

3 Scanform™ IV Tests – Cx, Pro

Procedure







Follow the steps below to perform the scanform™ tests.

Step	Action				
1	Switch off the edger.				
2	Hold the  key of the scanform™ while you switch on the edger.				
3	Press one or several times the  and/or  key until you access to the following screen.				
4	Press the  key to validate the scanform™ tests procedure. <u>Result:</u> The first test appears on the screen.				
5	Press the  and/or  keys until you display the desired test (see <i>List</i> paragraph below).				
6	Press the  key to start the selected test.				
	IF...				
	THEN...				
	<table border="1"> <tbody> <tr> <td>an error occurs</td> <td> <ul style="list-style-type: none"> The corresponding error code comes up on the screen (see <i>List</i> paragraph below). Press the  key to carry out the error. The scanform™ is re-setting and is returning at the beginning of the same test. You can start again the same test by pressing the  key. </td> </tr> <tr> <td>no error is detected</td> <td> <ul style="list-style-type: none"> The scanform™ is returning at the beginning of the same test. The green LED is flashing. <p><u>Note:</u> You can start again the same test several times by pressing the  key.</p> </td> </tr> </tbody> </table>	an error occurs	<ul style="list-style-type: none"> The corresponding error code comes up on the screen (see <i>List</i> paragraph below). Press the  key to carry out the error. The scanform™ is re-setting and is returning at the beginning of the same test. You can start again the same test by pressing the  key. 	no error is detected	<ul style="list-style-type: none"> The scanform™ is returning at the beginning of the same test. The green LED is flashing. <p><u>Note:</u> You can start again the same test several times by pressing the  key.</p>
an error occurs	<ul style="list-style-type: none"> The corresponding error code comes up on the screen (see <i>List</i> paragraph below). Press the  key to carry out the error. The scanform™ is re-setting and is returning at the beginning of the same test. You can start again the same test by pressing the  key. 				
no error is detected	<ul style="list-style-type: none"> The scanform™ is returning at the beginning of the same test. The green LED is flashing. <p><u>Note:</u> You can start again the same test several times by pressing the  key.</p>				
7	Go to the step 5 of this procedure until you performed all the desired tests.				
8	Press twice the  key to exit the maintenance menu.				

3 Scanform™ IV Tests – Cx, Pro (continued)






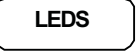



List

The following table lists the tests you can perform on the scanform™.


Test	Display	Description	Possible Error(s)	Operator's Intervention
Electronic	HARD	The scanform™ tests: <ul style="list-style-type: none"> • The RAM • The EPROM, etc. 	\$EE01, 02, 03, 04, 05	Visual control
Display	SCREEN	The scanform™ lights all the display segments from right to left.	-	Visual control
Keyboard	KEYBOARD	The scanform™ displays the following keys echo  ,  ,  ,  and  .	-	<ul style="list-style-type: none"> • Visual control • Press the  key to exit the test
Z Axis	Z TEST	The scanform™ looks for the z minimum and z maximum positions	\$EP08	Comparison with the values saved in memory. The memory values remain the same
Rho Axis	RHO TEST	The stylus performs twice the following operations: <ul style="list-style-type: none"> • Is in low position • Goes forward • Comes backward in rest central position 	\$EP04, 05	-
Rotation	ROTATION	The stylus performs a rotation of the turret counterclockwise then clockwise	\$ER01, 02	-

3 Scanform™ IV Tests – Cx, Pro (continued)

List (continued)

Test	Display	Description	Possible Error(s)	Operator's Intervention
Transfer		The stylus performs a translation right/left/right	\$EC01, 02	-
Clamps		The jaws close then open	\$EM02	-
Bars		The bars open then close	\$ET01, 02	-
LEDs:  		The LED: <ul style="list-style-type: none">  is flashing  is flashing one time 	-	Visual control
UART		The scanform™ tests the link with the edger (factory control)	\$EL01	Visual control
			This error occurs systematically when the scanform™ is connected to the edger.	

Test Interruption

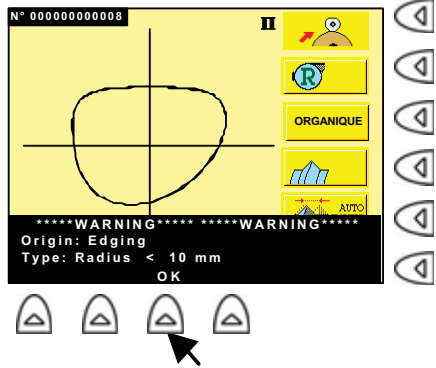
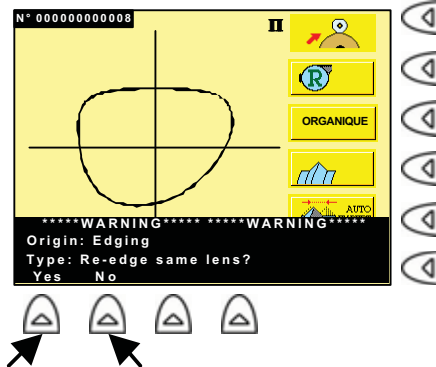
When you start a test, you can exit at any time the test in progress. To do so, press the  key.

Result: The scanform™ stops all motions and exits the test.

4 Operator Dialogue Message Management

Message Types

The following table describes the messages of the operator dialogue.


Type	Description	Acquittal
Warning	Allow to pay attention on an illogical procedure or a minor event.	By OK . 
Question	Indicate that you must choose between two solutions.	By Yes or No . 

- While the message is displayed, the operator dialogue is inhibited.
- The message area disappears from the screen when the message is acknowledged.

4 Operator Dialogue Message Management (continued)

Scanform™ origin

The following table shows the messages that can display during the scanform™ use.

N°	Message	Cause
01 05	<i>Tracing aborted</i>	You pressed the  key during scanning cycle for example.
01 09	<i>No Scanform</i>	Link problem with the scanform™.
01 10	<i>Shape closure prob., continue?</i>	The frame has possibly moved during tracing. The calculation algorithm can correct this problem but the lens edged may not match the frame shape (size a little too large) <ul style="list-style-type: none"> • Yes : correct the problem and carry on. • Non : stop the process and trace the frame again.

Layout origin

The following table shows the messages that can display in the layout mode.

N°	Message	Cause
02 03	<i>Unknown job</i>	Call of one job number being neither the current job nor the previous job aid of the keypad.

Scanning origin

The following table shows the messages that can display in the scanning mode.

N°	Message	Cause
03 01	<i>Memory full</i>	More than 300 jobs in memory (permanent or volatile jobs not edged).
03 04	<i>Overwrite the present job?</i>	You start a scanning cycle of a job already scanned.
03 05	<i>Edging previous job</i>	While you create the job n° 3 whereas the job n° 1 is in edging cycle.

4 Operator Dialogue Message Management (continued)

Scanning origin (continued)

N°	Message	Cause
03 06	<i>Overwrite the job in memory?</i>	<ul style="list-style-type: none"> The job number to save already exists in memory. If not, the job is saved under another number.
03 08	<i>Edging present job</i>	You try to scan again the present job during the edging of this job.
03 09	<i>Are you sure?</i>	If yes, the current job is deleted.
03 11	<i>Incompatible edger config.</i>	Incompatibility problem between job parameters and edger setting. <u>Example:</u> Job with Polycarbonate lenses on a machine not equipped with TP wheel.

Edging origin

The following table shows the messages that can display in the edging mode.

N°	Message	Cause
04 01	<i>Retouch impossible</i>	A retouch is required while a lens has not been edged yet.
04 02	<i>Lens feelers not in position</i>	One of the lens feelers was not in correct position before sensing the lens. Check there is no lens debris preventing a normal motion of the lens feelers.
04 04	<i>Small adaptor mounted?</i>	Validation request of the mounted ½ eye adapters.
04 05	<i>Lens too small for shape</i>	Lens too small or too decentered in comparison with the shape.
04 06	<i>Radius < 10 mm</i>	Shape too small. (Try to work in boxing mode.)
04 07	<i>Re edge same lens?</i>	Lens edging from a job on the screen already edged.
04 08	<i>Bevel too much at the back</i>	Top of the bevel more than 5 mm from the front face.
04 09	<i>Safety bvl: radius too small</i>	Radius too small for safety bevel.

4 Operator Dialogue Message Management (continued)

Edging origin (continued)

N°	Message	Cause
04 10	<i>Do you want to continue?</i>	This message appears when the edging time exceeded the limit of the machine (8 min). The operator has the choice to continue or stop the edging process.
04 11	<i>Lens too thick for rimless</i>	Lens thickness higher than 10.4 mm .
04 12	<i>Finishing impossible</i>	Finishing time upper than 3 min (carriage contact problem).
04 13	<i>Groove. Lens too small</i>	One of the diameter of the lens is too small and the sockets may touch the safety-bevel/grooving wheel.
04 14	<i>Impossible edge</i>	Problem on the main motor. Rotation speed too low or null.
05 02	<i>Grooving wheel too small</i>	Grooving wheel worn out. The depth can not be reached.
05 03	<i>Lens too thick to groove</i>	<ul style="list-style-type: none"> • Lens thickness upper than 9.55 mm between front face and grooving (lens safety-bevel/bush collision possible). • Lens thickness upper than 9.60 mm between rear face and grooving (lens safety-bevel/wheel collision possible).
05 04	<i>Groove. Lens too thin <1.5 mm</i>	Lens thickness is lower than 1.5 mm.
05 05	<i>Grooving impossible</i>	Too much lens curve.
05 06	<i>Bevel top out lens Continue?</i>	During automatic bevel, the machine detects that the bevel may go out of the lens edge. Shall we finish the lens?
05 07	<i>Lens feelers : Aberrant spots</i>	Irregular points detected during lens tracing. <u>Example:</u> For a 1/2 eye lens, the adhesive has not been cut before blocking.
05 08	<i>Job not aesthetical</i>	The bevel or groove calculated by the expert program might result a non aesthetic glazing. The operator can modify its base curve and/or position upon his criteria.

4 Operator Dialogue Message Management (continued)

Edging origin (continued)

N°	Message	Cause
05 09	<i>Improper lens to retouch</i>	The inserted lens doesn't match with the lens to retouch – Check lens side (R/L) or that the lens is not an uncut lens.
05 10	<i>Finish. dressing recommended</i>	The Accura recommends to dress the finishing (bevel) wheel (more than 800 lenses edged since the last dressing). Acknowledge the message and proceed to the finishing wheel dressing.

Extension circuit board origin

The following table shows the message that can display because of the extension circuit board.

Type	Message	Cause
06 01	<i>Extension board failure</i>	Communication problem between main circuit board and memory extension circuit board.

5 Edger Errors

List

The following list enumerates the most common error messages.

Error Code	Type	Check
08 80 02 04	Clamping Function Sx, Cx, Pro, Lab, CI	<ul style="list-style-type: none"> • Check the clamping potentiometer (Connection, order) • Check the clamping motor (Connection, order) • Check the mechanical system (Stiff, jam, stuck...) • Check power and data ribbon cables (Connection, cut...)
08 80 03 04	Lens Rotation Function Sx, Cx, Pro, Lab, CI	<ul style="list-style-type: none"> • Lens rotation encoder (Connection, order) • Lens rotation motor (Connection, order) • Lens rotation mechanical system (Stiff, jam, stuck...) • Power and data ribbon cables (Connection, cut...)
08 80 0B 03	Blocker Function Cx, Pro	<ul style="list-style-type: none"> • Blocking pressure (if too high, unscrew the adjustment screw of the blocker pressure) • Two blocker contacts (connection and functioning)
08 81 01 03	Visor Function Cx, Pro, Lab, CI	<ul style="list-style-type: none"> • If the Accura main cover does not prevent the visor from opening. • Micro switches of the visor (Magnetic switch and micro switch) • Visor motor (Connection, order) • Power and data ribbon cables (Connection, cut...)
08 84 04 04	Carriage Function Sx, Cx, Pro, Lab, CI	<ul style="list-style-type: none"> • Translation mechanical system (Stiff, jam, stuck...) • Translation motor (Connection, order) • Translation encoder (Connection, order) • Power and data ribbon cables (Connection, cut...)
08 85 05 04	Lifting Jack Function Sx, Cx, Pro, Lab, CI	<ul style="list-style-type: none"> • Touch plate contact on the carriage (Clean the touch plate or contact red wire is cut) • Lifting jack motor (Connection, order) • Lifting jack encoder (Connection, order) • Power and data ribbon cables (Connection, cut...)

5 Edger Errors (continued)

List (continued)

Error Code	Type	Check
08 86 06 04	Lens Feeling Function Sx, Cx, Pro, Lab, CI	<ul style="list-style-type: none"> • Check if the feelers are moving free when closing and opening (Polycarbonate debris built-up on back of grinding chamber, piece of lens) • Feelers system motor (Connection, order) • Power and data ribbon cables (Connection, cut...)
08 8F 0F 04	Feelers Connection Sx, Cx, Pro, Lab, CI	<ul style="list-style-type: none"> • Lens feelers potentiometers are connected backwards to the connection board located on the machine base. • One of the feelers potentiometers is defective.
08 87 07 03	Counter-weight Function Cx, Pro, Lab, CI	<ul style="list-style-type: none"> • Counter-weight motor (Connection, order) • Counter-weight potentiometer (Connection, order) • Power and data ribbon cables (Connection, cut...)
08 80 0A 04	Battery Low Sx, Cx, Pro, Lab, CI	SW2 switch of the edger main circuit is ON position
08 8D 0D 03	Safety Bevel Function Cx, Pro, Lab, CI	<ul style="list-style-type: none"> • Safety-bevel system micro-switches (Connection, order) • Safety-bevel system mechanism (length of the rubber lever, rest position) • Safety-bevel system motor (Connection, order) • Power and data ribbon cables (Connection, cut...)
09 80 0C 04	Encoder Error Sx, Cx, Pro, Lab, CI	<ul style="list-style-type: none"> • One of the three encoders of the machine is defective but the machine cannot find out which. To identify the faulty encoder, plug a brand new encoder "in the air" and turn on the machine. • If the error remains, plug the new encoder in place of another one. Repeat the operation until the encoder error disappears • The encoder to change is the last unplugged encoder
09 80 0E 04	ITR Thermal Probe of Main Motor Sx, Cx, Pro, Lab, CI	<ul style="list-style-type: none"> • Motor thermostat wire is well connected to the connector or is not cut • On 110V machines, the shunt connector may not be present.

6 Scanform™ VI Errors and Messages

Warning Messages

The following tables list the most common messages that you might encounter when using the scanform.

Message	Possible cause(s)	Solution(s)
<i>Incorrect tool</i>	The tool used is not recognized as a standard scanform tool.	Use exclusively tools and accessories provided
<i>No tool</i>	The required tool has not been inserted	Insert the correct tool
<i>No pattern</i>	The required pattern has not been inserted	Insert the correct pattern
<i>Frame moved</i>	The frame moved during scanning	Ensure that the frame is placed correctly in the scanform
<i>No frame</i>	The required frame has not been inserted	Insert the correct frame

6 Scanform™ VI Errors and Messages (continued)

Scanform™ VI Errors

If any of the following errors are detected, take the relevant action described.

Error #	Error message	Solution(s)
EC03	<i>Carriage error, loss of steps</i>	Ensure that there is no obstruction to the carriage
EL03	<i>Impossible connect., Job not sent</i>	Ensure the Scanform Net is correctly connected to the OMA server and that the OMA application is started
EM01	<i>Jaws error, No frame</i>	Insert a frame in the Scanform
EM02	<i>Jaws error, timeout</i>	Ensure that there is no obstruction to the jaws
EM03	<i>Jaws error, Frame present</i>	Ensure that the frame is removed prior to the initialisation phase
EP01	<i>Stylus out, Invalid trace</i>	The stylus has come out of the frame. Restart the scan using the slow setting
EP02	<i>Frame moved, Invalid trace</i>	Closing error - the point at which the scan began does not correspond to the point at which it finished (rho and Z). Restart the scan using the slow setting. This error is normally caused by the frame moving during the scan
EP04	<i>Stylus error, Insufficient stroke</i>	Ensure that there is no obstruction to the stylus horizontal movement
EP05	<i>Insert. error, Insufficient stroke</i>	The stylus cannot reach the end of its horizontal stroke. Ensure that there is no obstruction preventing the stylus from moving back and forth during the initialization step
EP07	<i>Height error, insufficient stroke</i>	The stylus cannot reach the end of its stroke. Ensure that there is no obstruction preventing the stylus from moving upwards
EP08	<i>Stylus out, Scan pattern error</i>	The tracer could not trace the pattern. Restart the scan using the slow setting
ER01	<i>Turret, timeout</i>	Ensure that there is no obstruction to turret
ER03	<i>Turret, Jamming: photocell</i>	The turret is jamming. Ensure there is no stopping point along its rotation movement
ET01	<i>Rods error, timeout</i>	Ensure that there is no obstruction to the rods
ET03	<i>Rods error, Insufficient stroke</i>	Ensure that there is no obstruction to the rods and frame clips
EA01	<i>Adjustment error</i>	The calibration failed. Do it again

7 Scanform™ Errors

Errors on Motions

The following list enumerates the errors on motions.

Type	Error
Error Condition	\$EP04 <i>Stylus Introduction</i> The starting point of the encoder has not been detected
Error Condition	\$EP06 <i>Stylus Origin Position Time-out</i> Contact has not been detected before time out
Error Condition	\$EP07 <i>Stylus Height Time-out</i> Occurring during initialisation of stylus maximum height. The stylus up/down driving motor is activated but the stylus height does not change
Error Condition	\$EM01 <i>Time-out on jaws closing</i> No frame in frame holder
Error Condition	\$EM02 <i>Time-out on jaws opening</i> No switches detection in open position
Error Condition	\$EV01 <i>Lens presence in right side frame</i> During lifting for introduction, the stylus jams and does not move any more
Error Condition	\$EV02 <i>Lens presence in left side frame</i> During lifting for introduction, the stylus jams and does not move any more
Error Condition	\$EG02 <i>No pattern on holder</i> The first radius traced on pattern is < than minimum radius
Error Condition	\$EC01 <i>Carriage Translation Time-out towards right side</i> The contact is not latch after time-out
Error Condition	\$EC02 <i>Carriage Translation Time-out towards left side</i> The contact is not latch after time-out
Error Condition	\$ET01 <i>Bars Opening Time-out</i> The contact is not latch after time-out
Error Condition	\$ET02 <i>Bars Closing Time-out</i> <i>The contact is not latch after time-out</i>
Error Condition	\$ER01 <i>Clockwise Rotation Time-out</i> <i>The contact is not latch after time-out</i>

7 Scanform™ Errors (continued)

Errors on Motions (continued)

Type	Error
Error	\$ER02 <i>Counterclockwise Rotation Time-out</i>
Condition	The contact is not latch after time-out
Error	\$EP05 <i>Spare</i>
Error	\$EG01 <i>Spare</i>


Errors during Scanning

The following list enumerates the errors during the scanning.

Type	Error
Error	\$EP01 <i>Stylus Default</i>
Condition	Frame has moved or stylus is going out from groove
Error	\$EP02 <i>Not closed shape</i>
Condition	Frame has moved during scanning
Error	\$EP03 <i>Rotation End Stroke Default</i>
Condition	<i>Stylus is blocked then deblocked</i>

Error of Operator

The following list enumerates the error you can cause.

Type	Error
Error	\$EO01 <i>STOP Key</i>
Condition	 The key is always depressed during motions or when green LED flashes indicating scanform™ is ready to trace

VII MISCELLANEOUS

















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1 Machine Access Codes




Access Codes Sx, Cx, Pro, Lab, CI

To help you in searching for access codes to the adjustments, you will find these codes in the following table.




	Access Type	Access Code
Optician Adjustments	<ul style="list-style-type: none"> • Frame Correction Adjustment • Wheel Differential Adjustment • General Size Correction • User's Language Selection • Using Level Selection • Enable/disable the Aestheticism Control 	 + 
	Sizes Adjustment (reset sizes) and wheel dressing	 + 
	Lens Feelers Calibration	 + 
	Stylus Introduction Height Adjustment Sx	 + 
	Lens Counters Consultation/Resetting	 + 
	Extended memory information	 + 
Technician Adjustments	Test Program	I/O Switch + 
	Encoders Adjustment	I/O Switch + 
	Edger Adjustment	I/O Switch + 
	Empty the bucket with edger pump	I/O Switch + 

1 Machine Access Codes (continued)














Scanform™ IV Access Codes Cx, Pro

Access Type		Access Code
Optician Adjustments	Stylus Introduction Height Adjustment Cx, Pro	 + 
Technician Adjustments	Scanform™ Adjustments/Tests	M/A + 









Scanform™ VI Access Codes Cx, Pro

Access Type		Access Code
Technician Adjustments	Scanform™ Adjustments/Tests	M/A +  M/A +  M/A + 

Shapes in Memory

Access Type	Access Code
Square Shape of 40 mm Side	1 & [ + ]
Round Shape Ø 30 mm	2 & [ + ]
Round Shape Ø 40 mm	3 & [ + ]
Round Shape Ø 50 mm	4 & [ + ]
Round Shape Ø 60 mm	5 & [ + ]
	6 & [ + ]

2 Special Tool List

Tool	Machine(s)	Briot Part Num.	Picture
Scanform™ gain calibration tool	Sx, Cx, Pro	14 04 190	
Scanform Offset/axis calibration frame	Cx, Pro, Axcell	14 04 185	
Scanform Offset/axis calibration frame	Sx	14 04 195	
Scanform Offset calibration pattern	Sx, Cx, Pro, Axcell	14 04 192	
Scanform Axis calibration pattern	Sx, Cx, Pro, Axcell	14 04 191	
Accura calibration tool	All Accura	14 04 199	
Dynamometer	All Accura	14 04 056	
Digital calipers	All Accura	24 06 218	






2 Special Tool List (continued)

Tool	Machine(s)	Briot Part Num.	Picture
Belt tension controller	All Accura	14 04 196	
Weight scale for safety bevel pressure adjustment	Cx, Pro, Lab, CI	14 04 198	
Translation cable jig	All Accura	14 04 201	
Weight scale for transfer cable tension measurement	All Accura	24 04 206	
Stylus tip alignment tool for scanform IV and V	Sx, Cx, Pro	14 04 232	
Stylus tip alignment tool for scanform VI	Cx, Pro, Axccl	14 04 233	
Weco block with central hole	Sx, Cx, Pro	11 53 014	
Holding wrench for wheel tightening	All Accura	14 01 022	




2 Special Tool List (continued)

Tool	Machine(s)	Briot Part Num.	Picture
Box wrench Diam 19mm with rod	All Accura	14 04 200	
Magnifier with scale	All Accura	24 06 311	
Scanform™ gain calibration tool - Axcell	Axcell	14 04 218	
Calibration lens OR008	Axcell	14 04 224	
Calibration lens +3D	Axcell	14 04 227	

2 Special Tool List (continued)

Tool	Machine(s)	Briot Part Num.	Picture
Calibration lens –3D	Axcell	14 04 228	
Blocker axis calibration tool for Axcell	Axcell	14 04 231	
Shadowgraph camera sharpness adjustment tool	Axcell	14 04 243	
Target camera alignment tool	Axcell	14 04 236 SAV	
Pattern tool holder	Axcell	14 04 252	
Round pattern Ø 30	Axcell	14 04 249	

2 Special Tool List (continued)

Tool	Machine(s)	Briot Part Num.	Picture
Round pattern Ø 60	Axcell	14 04 251	
Flat lenses for axis calibration (65x65mm)	All Accura	10 00 145 (100 pcs)	
Safety bevel and groove calibration flat plastic lens	Cx, Pro, Lab, CI	10 00 185 (100 pcs)	

3 Specifications Sx

Scanform™ Scanner

- Automatic Initialization
- Manual Frame Positioning
- Scan frame, pattern, cut lens or presentation lens
- Automatic Tracing in 3D of two or one circles as required
- Automatic Measuring of the frame distance
- Tracing Diameter:
 - * Maximum: 80 mm
 - * Minimum: 20 mm

Layout/Blocking

- Operator Interface using Icons
 - LCD Screen
 - Screen Contrast and Video Reverse Control
 - Wheels Selection:
 - * Roughing: Glass or Plastics (CR 39, Polycarbonate and High Index Organic)
 - * Finishing: Controlled bevelling (Front Face, Rear Face, 1/3-2/3, 1/2-1/2, Frame Base, Lens Base, Expert), Rimless, Polishing
 - Job Number Displaying
 - Optical Center Blocking
 - Boxing Center Blocking with Automatic Parallax Correction
 - View lens before finishing: profile, front, full bevel track.
 - Manual-Lens Blocking
 - Lens Blocking by Adhesive
 - Excellent Accessibility of the Adhesive Holder
 - Out of Center entered via the keypad (minimum step: 0.10 mm):
 - * Horizontal Decentrations: Boxing decentration, Mono PD, or Total PD.
 - * Vertical Input: BOX height, pupil height in boxing center, or pupil center blocking
- Note:** All data combinations are accepted by the computer:
- * Blocking cross for single vision, bifocal (with adjustment of bifocal segment width), progressive
 - * Adhesive socket/edging machine anti-collision device (warning of the operator with socket using requirement of \varnothing 19 mm)

3 Specifications Sx (continued)

Edging Station

- Automatic Initialization
- Lens front and rear face tracing: 3D
- Equipment:
 - * Roughing Glass Edging
 - * Roughing Plastic Edging (CR 39, High Index)
 - * All Plastics Edging (CR 39, High Index, Polycarbonate)
 - * Bevel/Rimless Finishing Edging
 - * Bevel/Rimless Polishing Edging
- Clamping Pressure Automatically controlled according to the Material
- Automatic, Variable and Controlled Edging Pressure
- Automatic Job Memory: 300 jobs
- Quick Connect Water Connection
- Lens Edging Diameter:
 - * ≤ to 80 mm
 - * ≥ to 20,5 mm in rimless and ≥ to 21,5 mm in bevel
- Automatic cleaning of lens chucking system and edging chamber
- Water supply: 20x27 mm Adapter
- Drain Size:
 - * Ø 30 mm (1.5") or 50 mm (2.5")
 - * Ø 100 mm polycarbonate version (4.0")
- Water Supply Pressure: from 0 to 7 bar
- Edging Statistics
- Network Connection

3 Specifications Sx (continued)

Specifications

- Dimensions:
 - * Width: 26" (660 mm)
 - * Depth: 24" (620 mm)
 - * Height (visor close): 17" (430 mm)
 - * Height (visor open): 20.5" (520 mm)
- Weight: 68 kg (150 lb.)
- Power Supply: 230 V/50 Hz, 115 V/60 Hz
- Power Consumption: 1000 W
- Sound Level: 72 dB
- Ambient Temperature: 13° C to 35° C
- Relative Humidity: 10% to 80%
- Maximum Water Pressure: 7 Bar
- Maximum Pump Pressure (with Pump): 7 Bar
- Output of Pump Outlet:
 - * 115 V/230 V: Supply Voltage
 - * 350 W: Power available (for the pump)
- Fuses to be used for **230 V** edger:
 - * F1 & F2 : **10 AT** Little Fuse 32606
 - * F3 : **31,5 AT** Little Fuse 2183-15
 - * F4 & F5 : **2 AT** Little Fuse 218002
 - * F6 : **5 AT** Ferraz 250V 55T 5x20
- Fuses to be used for **115 V** edger:
 - * F1 & F2 : **25 AT** Ferraz 125 V
SA 6,3x32 Ref. T84 427
 - * F3 : **5 AT** Ferraz 250 V 5ST 5x20
 - * F4 & F5 : **5 AT** Ferraz 250V 55T 5x20
 - * F6 : **5 AT** Ferraz 250V 55T 5x20
- EC Standards for 230V EC Version:
 - * In compliance with Safety EC Requirement Di 89/392/CEE
 - ◆ EN 60204
 - ◆ EN 60950
 - ◆ EN 60742
 - * In compliance with EMC EC Requirement Di 89/336/CEE
 - ◆ EN 55022 "Class B"
 - ◆ EN 61000 - 4 - 2
 - ◆ EN 61000 - 4 - 3
 - ◆ EN 61000 - 4 - 4
- UL Standards for 115V US Version:
 - ◆ UL 3101
 - ◆ FCC part 15, subpart J. Class A

4 Specifications Cx, Pro

Scanform™ Scanner

- Automatic Initialization
- Automatic Frame Positioning
- Automatic Insertion of the Stylus
- Scan frame, pattern, cut lens or presentation lens
- Automatic detection of insertion of a pattern or demonstration lens
- Automatic Tracing in 3D of two or one circles as required
- Frame groove angle automatic measurement by insertion of a second stylus tip into the frame
- Automatic Measuring of the frame deviation
- Tracing Diameter:
 - * Maximum: 80 mm
 - * Minimum: 20 mm

Layout/Blocking

- Operator Interface using Icons
 - LCD colour screen
 - Screen Contrast and Video Reverse Control
 - Lens Wheels Choice:
 - * Roughing: Glass or Plastics (CR 39, Polycarbonate and High Index Organic)
 - * Finishing: Controlled bevelling (Automatic, Expert, Front Face, Rear Face, 1/3-2/3, 1/2-1/2, Frame Base, Lens Base), Rimless, Polishing, Safety-bevel, Grooving
 - Assembly Job Number Display
 - Optical Center Blocking
 - Boxing Center Blocking with Automatic Parallax Correction
 - Possible lens viewing before finishing: profile, front, full bevel track.
 - Servo controlled lens blocking
 - Lens blocking by Adhesive only
 - Patient's data entered via the keypad (minimum step: 0.10 mm):
 - * Horizontal input: Boxing shift, Mono PD, or full PD.
 - * Vertical Input: BOX height, pupil height in boxing center, or pupil center blocking
- Note:** All data combinations are accepted by the computer:
- * Blocking cross for single vision, bifocal (with adjustment of bifocal segment width), progressive
 - * Adapter / grinding wheels anti-collision device (warning of the operator with socket using requirement of \varnothing 19 mm)

5 Specifications Cx, Pro, Lab, CI

Edging Station

- Automatic Initialization
- Lens front and rear face tracing: 3D
- Equipment:
 - * Roughing Glass Edging
 - * Roughing Plastic Edging (CR 39, High Index)
 - * All Plastics Edging (CR 39, High Index, Polycarbonate)
 - * Bevel/Rimless Finishing Edging
 - * Bevel/Rimless Polishing Edging
- Clamping Pressure Automatically controlled according to the Material
- Automatic, Variable and Controlled Edging Pressure
- Safety-bevelling: Front and/or Rear Sides
- Automatic Job Memory: 300 jobs
- Quick Connect Water Connection
- Lens Edging Diameter:
 - * \leq to 80 mm
 - * \geq to 20.5 mm in rimless and \geq to 21.5 mm in bevel
 - * \geq to 17.5 mm in rimless and \geq to 19.5 mm in bevel for Accuras # \geq 6434
- Automatic cleaning of lens chucking system and edging chamber
- Water supply: 20x27 mm Adapter
- Drain Size:
 - * \varnothing 30 mm (1.5") or 50 mm (2.5")
 - * \varnothing 100 mm polycarbonate version (4.0")
- Water Supply Pressure: from 4 to 7 bar
- Edging Statistics
- Network Connection
- Lens Grooving in 0.6 mm Plain Width (Nylon wire) or 1 mm Double Width (Metal wire)

6 Specifications Cx

Specifications

- Dimensions:
 - * Width: 26" (660 mm)
 - * Depth: 24" (620 mm)
 - * Height (visor close): 17" (430 mm)
 - * Height (visor open): 20.5" (520 mm)
- Weight: 165 lb. (75 kg)
- Power Supply: 230 V/50 Hz, 115 V/60 Hz
- Power Consumption: 1000 W
- Sound Level: 72 dB
- Pollution Degree: 2
- Installation Category: II
- Ambient Temperature: 13° C to 35° C
- Relative Humidity: 10% to 80%
- Maximum Water Pressure: 7 Bar
- Maximum Pump Pressure (with Pump): 7 Bar
- Output of Pump Outlet:
 - * 115 V/230 V: Supply Voltage
 - * 350 W: Power available (for the pump)
- Fuses to be used for **230 V** edger:
 - * F1 & F2 : **10 AT** Little Fuse 32606
 - * F3 : **31,5 AT** Little Fuse 2183-15
 - * F4 & F5 : **2 AT** Little Fuse 218002
 - * F6 : **5 AT** Ferraz 250V 55T 5x20
- Fuses to be used for **115 V** edger:
 - * F1 & F2 : **25 AT** Ferraz 125 V SA 6,3x32 Ref. T84 427
 - * F3 : **5 AT** Ferraz 250 V 55T 5x20
 - * F4 & F5 : **5 AT** Ferraz 250V 55T 5x20
 - * F6 : **5 AT** Ferraz 250V 55T 5x20
- EC Standards for 230V EC Version:
 - * In compliance with Safety EC Requirement Di 89/392/CEE
 - ◆ EN 60204
 - ◆ EN 60950
 - ◆ EN 60742
 - * In compliance with EMC EC Requirement Di 89/336/CEE
 - ◆ EN 55022 "Class B"
 - ◆ EN 61000 - 4 - 2
 - ◆ EN 61000 - 4 - 3
 - ◆ EN 61000 - 4 - 4
- UL Standards for 115V US Version:
 - ◆ UL 3101
 - ◆ FCC part 15, subpart J. Class A

7 Specifications Pro

Specifications

- Dimensions:
 - * Width: 26" (660 mm)
 - * Depth: 24" (620 mm)
 - * Height (visor close): 17" (430 mm)
 - * Height (visor open): 20.5" (520 mm)
- Weight: 165 lb. (75 kg)
- Power Supply: 230 V/50 Hz, 60 Hz
- Power Consumption: 3000 W
- Sound Level: 72 dB
- Pollution Degree: 2
- Installation Category: II
- Ambient Temperature: 13° C to 35° C
- Relative Humidity: 10% to 80%
- Maximum Water Pressure: 7 Bar
- Maximum Pump Pressure (with Pump): 7 Bar
- Output of Pump Outlet:
 - * 230 V: Supply Voltage
 - * 350 W: Power available (for the pump)
- Fuses to be used for **230 V** edger:
 - * F1 & F2 : **10 AT** Little Fuse 32606
 - * F3 : **31,5 AT** Little Fuse 2183-15
 - * F4 & F5 : **2 AT** Little Fuse 218002
 - * F6 : **5 AT** Ferraz 250V 55T 5x20
- EC Standards for 230V EC Version:
 - * In compliance with Safety EC Requirement Di 89/392/CEE
 - ◆ EN 60204
 - ◆ EN 60950
 - ◆ EN 60742
 - * In compliance with EMC EC Requirement Di 89/336/CEE
 - ◆ EN 55022 "Class A"
 - ◆ EN 61000 - 4 - 2
 - ◆ EN 61000 - 4 - 3
 - ◆ EN 61000 - 4 - 4

8 Specifications Lab, CI

Accura Lab

- Dimensions :
 - * Width: 26" (650 mm)
 - * Depth: 19" (480 mm)
 - * Hauteur : 21" (535 mm)
- Weight: 100 lb. (63 kg)
- Power Supply: 230 V/50 Hz
- Power Consumption: 3000 W
- Sound Level: 70 dB
- Pollution Degree: 2
- Installation Category: II
- Ambient Temperature: 13° C to 35° C
- Relative Humidity: 10% to 80%
- Maximum Water Pressure: 7 Bar
- Maximum Pump Pressure (with Pump): 7 Bar
- Output of Pump Outlet:
 - * 230 V: Supply Voltage
 - * 350 W: Power available (for the pump)
- Fuses to be used for **230 V** edger:
 - * F1 & F2 : **10 AT** Little Fuse 32606
 - * F3 : **31,5 AT** Little Fuse 2183-15
 - * F4 & F5 : **2 AT** Little Fuse 218002
 - * F6 : **5 AT** Ferraz 250V 55T 5x20
- EC Standards for 230V EC Version:
 - * In compliance with Safety EC Requirement Di 89/392/CEE
 - ◆ EN 60204
 - ◆ EN 60950
 - ◆ EN 60742
 - * In compliance with EMC EC Requirement Di 89/336/CEE
 - ◆ EN 55022 "Class A"
 - ◆ EN 61000 - 4 - 2
 - ◆ EN 61000 - 4 - 3
 - ◆ EN 61000 - 4 - 4

8 Specifications Lab, CI (continued)

Accura CI

- Dimensions:
 - * Width: 26" (650 mm)
 - * Depth: 19" (480 mm)
 - * Hauteur : 21" (535 mm)
- Weight: 100 lb. (63 kg)
- Power Supply: 230 V/50 Hz, 115 V/60 Hz
- Power Consumption: 1000 W
- Sound Level: 70 dB
- Pollution Degree: 2
- Installation Category: II
- Ambient Temperature: 13° C to 35° C
- Relative Humidity: 10% to 80%
- Maximum Water Pressure: 7 Bar
- Maximum Pump Pressure (with Pump): 7 Bar
- Output of Pump Outlet:
 - * 115 V/230 V: Supply Voltage
 - * 350 W: Power available (for the pump)
- Fuses to be used for **230 V** edger:
 - * F1 & F2 : **10 AT** Little Fuse 32606
 - * F3 : **31,5 AT** Little Fuse 2183-15
 - * F4 & F5 : **2 AT** Little Fuse 218002
 - * F6 : **5 AT** Ferraz 250V 55T 5x20
- Fuses to be used for **115 V** edger:
 - * F1 & F2 : **25 AT** Ferraz 125 V
SA 6,3x32 Ref. T84 427
 - * F3 : **5 AT** Ferraz 250 V 55T 5x20
 - * F4 & F5 : **5 AT** Ferraz 250V 55T 5x20
 - * F6 : **5 AT** Ferraz 250V 55T 5x20
- EC Standards for 230V EC Version:
 - * In compliance with Safety EC Requirement Di 89/392/CEE
 - ◆ EN 60204
 - ◆ EN 60950
 - ◆ EN 60742
 - * In compliance with EMC EC Requirement Di 89/336/CEE
 - ◆ EN 55022 "Class B"
 - ◆ EN 61000 - 4 - 2
 - ◆ EN 61000 - 4 - 3
 - ◆ EN 61000 - 4 - 4
- UL Standards for 115V US Version:
 - ◆ UL 3101
 - ◆ FCC part 15, subpart J. Class A

8 Specifications Lab, CI (continued)

Accura Lab & CI: Specifications

- Automatic Initialization
- Self-test
- Lens front and rear face tracing: 3D
- Equipment:
 - * Roughing Glass Edging
 - * Roughing All Plastic Edging (CR 39, High Index, Polycarbonate)
 - * Bevel/Rimless Finishing Edging
 - * Bevel/Rimless Polishing Edging (option)
- Safety-beveling: Front and/or Rear Sides (option)
- Quick Water Connection
- Solenoid Valve
- Lens Edging Diameter:
 - * Maximum: 100 mm
 - * Minimum: 20 mm
- Automatic cleaning of lens chucking system and edging chamber
- Water supply: 20x27 mm Adapter
- Drain Size: Ø 100 mm
- Water Pressure: from 0 to 7 bar
- Edging Cycle Statistics
- OMA Network Connection and centering device Axcell
- Lens Grooving in Regular Width (Nylon wire) or 1 mm Double Width (Metal wire)

Accura Lab & CI: Options

- **Factory** Installation while Ordering Edger:
 - * Automatic Safety Beveling
- Possible Installation **on the Spot**:
 - * Polishing