

OEC 7700

Service Setup

Preview with B345

for calibration
B345
00-451142-01

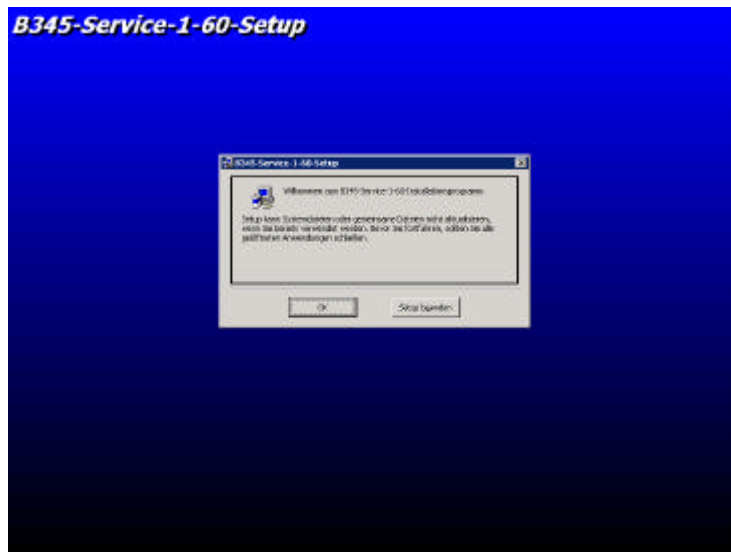
Iris-Collimator
Slot Collimator
Preview
- DAP
- DAP + Laser

PC-SW Version 1.8
B345 Version „B345 04 08.h86“

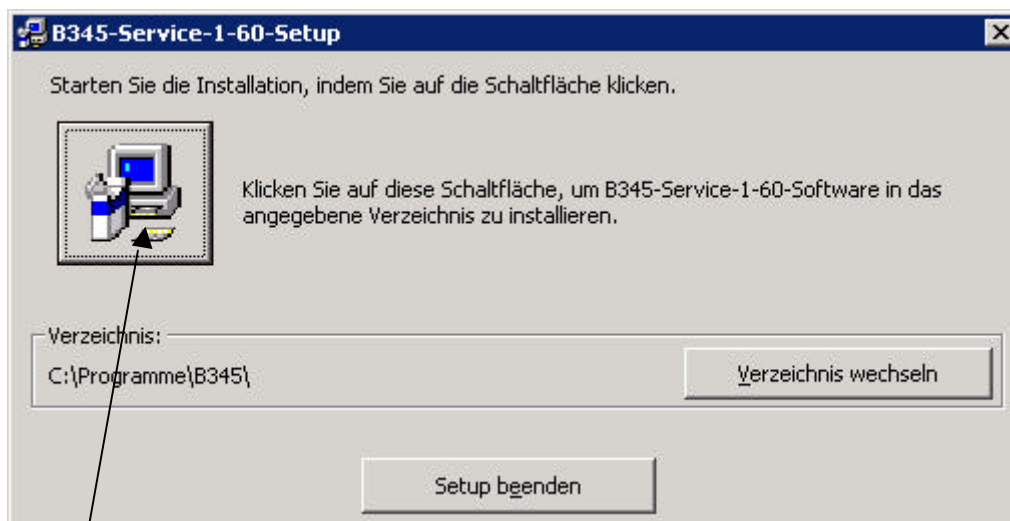
1. Installation PC-SW for B345	2
2. B345 Software.....	4
1. Start Programm	4
INFO:	5
2. Monitorcart settings for DAP	6
3. Monitorcart settings for Preview	6
3. Callibration.....	7
Mechanical Callibration „Slot Collimator“	7
Mechanical Callibration „Iris-Collimator“	7
Iris Collimator Adjustment.....	8
4. Preview Adjustment	11
5. DAP Adjustment	13

1. Installation PC-SW for B345

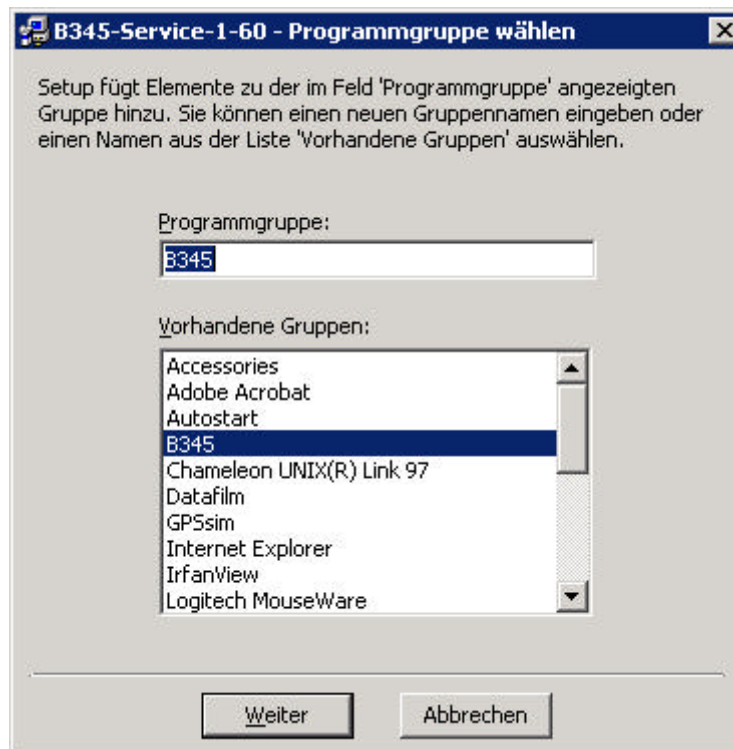
Start „Setup.exe“



Press „OK“



Press



press „weiter“



press „OK“

Programm installed successful

2. B345 Software

Normal Mode = Standart Mode (no MAG no HAND-MODE no FIME.MODE)
MAG 1 = Hand Mode or Mag Mode
MAG 2 = Hand-Mode and Mag Mode
Film = Film Mode

1. Start Programm

Start Programm B345 / b345_180

Start mechanical Collimator Position Adjustment		
Start Iris Collimator Adjustment		
Start Preview Adjustment		
Start DAP Adjustment	DAP installed	v
	DAP not installed	
Exit		

Note: please select COM1 or COM2 (MENUE / OPTION/COM)

if B345 to the right COM port connected some buttons get active

Start mechanical Collimator Position Adjustment		
Start Iris Collimator Adjustment		
Start Preview Adjustment		
Start DAP Adjustment	DAP installed	V 04.05: c.
	DAP not installed	
Exit		

INFO:

V 04.05: c.

04.05:xx	SW.Version and SW-LABEL	
04.xx:xx	B345 with DAP	„DAP installed“ is active
03.xx:xx	B345 without DAP	„DAP not installed“ is active
xx.xx:nc	B345 is not calibrated	
	after calibration „Iris Collimator adjustment“ and „Preview adjustment“ display change to „c“	
xx.xx:c	B345 is calibrated	
Example	DISPLAY 03.05.c	SW Version 05 B345 is calibrated SW Label = B345 04 05.h86

2. Monitorcart settings for DAP

For the equipment to work correct, the following changes have to be made in the service menu.

1. Open service menu (Shift Home)

- Servicemenue
- Password BMS 95

2. Select DAP menu

3. In the DAP menu open „Reference value“ first, then „Tolerance“ and make the following inputs:

Reference value	=	1
Tolerance	=	0
Korrektur value	=	1,00 !!!!!!!

3. Monitorcart settings for Preview

For the equipment to work correct, the following changes have to be made in the service menu.

1. Open service menu (Shift Home)

- Servicemenue
- Password BMS 95

2. Select Preview menu

3. Select Permanent Preview

„ON“ during Callibration

„OFF“ for Normal Work after callibration !!!!

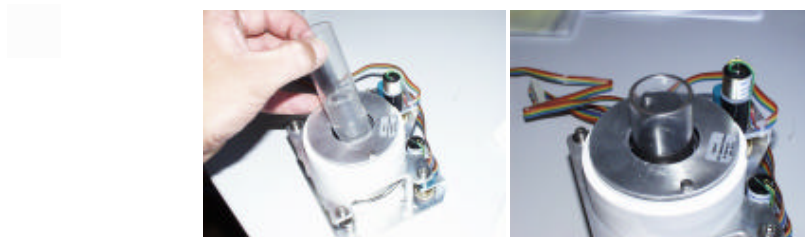
3. Calibration

Generator is adjusted

- mechanical Position
- KV and mA

Mechanical Calibration „Slot Collimator“

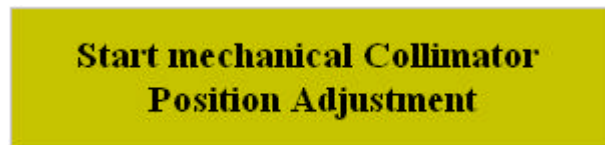
open IRIS Collimator to mount the „Collimator Center tool“ in the Collimator DAC-8 Unit



switch AIMING CROSS „ON“ = Ctrl + „L“
adjust Slot Collimator Center to the AMING cross Center (during X-Ray)
fix Slot Collimator and control correct position

Mechanical Calibration „Iris-Collimator“

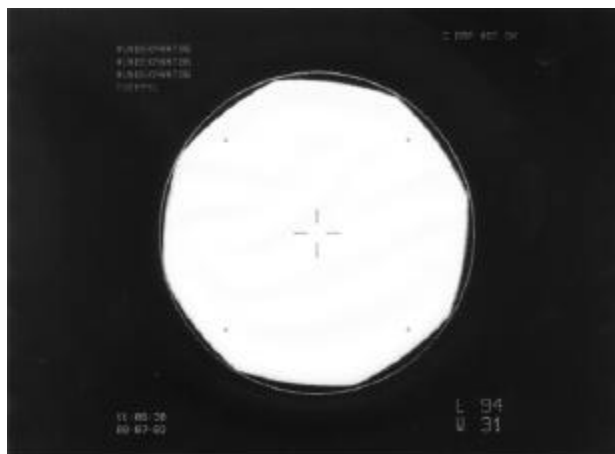
Press



from PC-SW

you see a circle

use Iris open / close Button and IRIS Collimator to adjust the right position during X-Ray



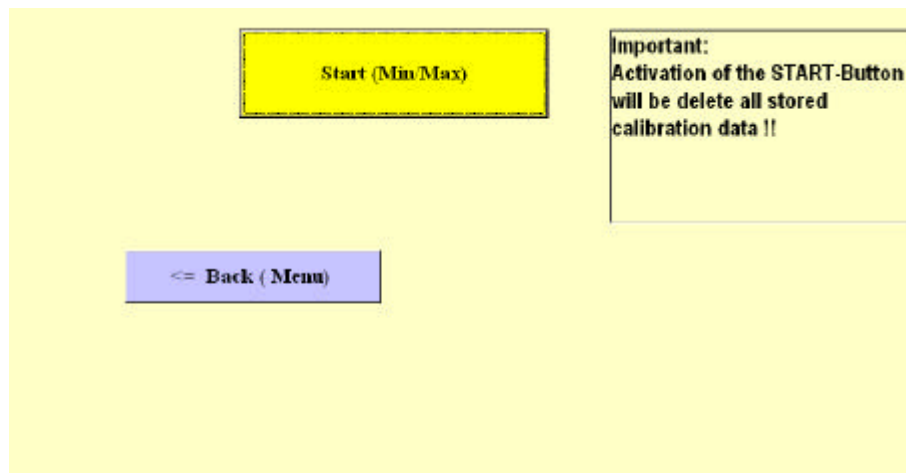
fix Iris Collimator and control correct position

Iris Collimator Adjustment

press

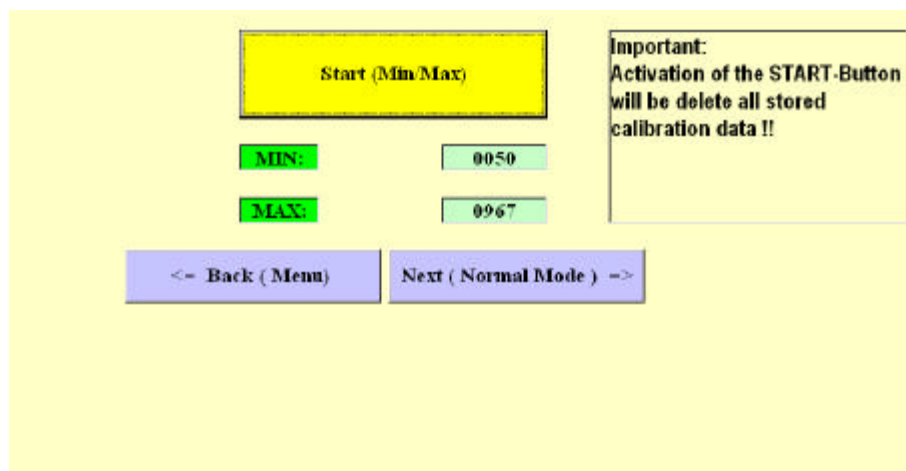


you will see



Start Callibration with Button „Start (MIN/MAX)“

during the next 5-10 sec. the min. Position and the max Position from the Iris Collimator will automatically found from the Software



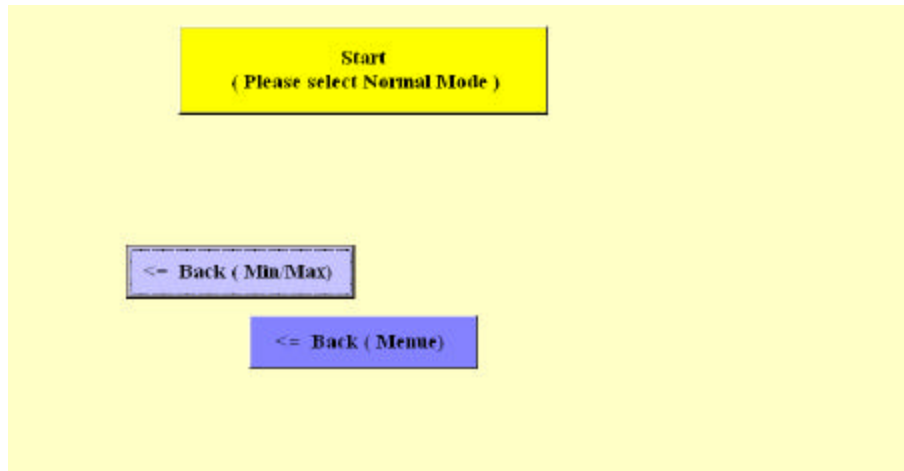
if not

MIN < 100 and MAX > 900

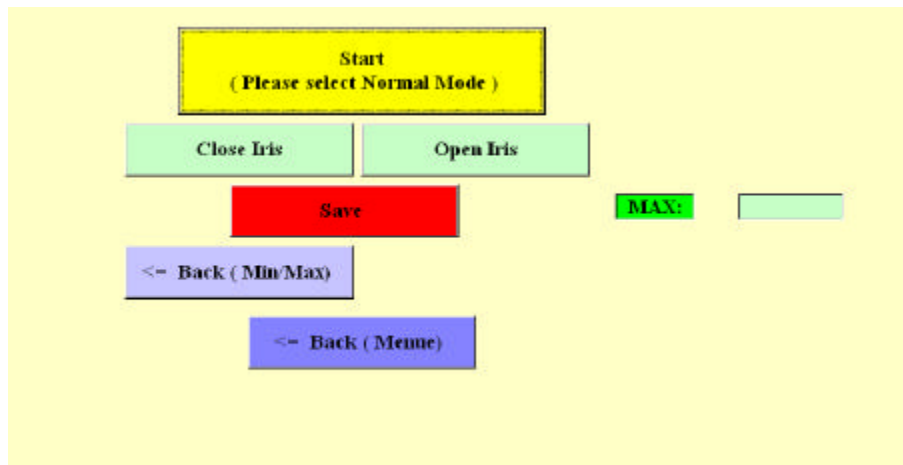
than press Start (Min/Max) again (maybe 5 times)

please press “Next (Normal Mode)”

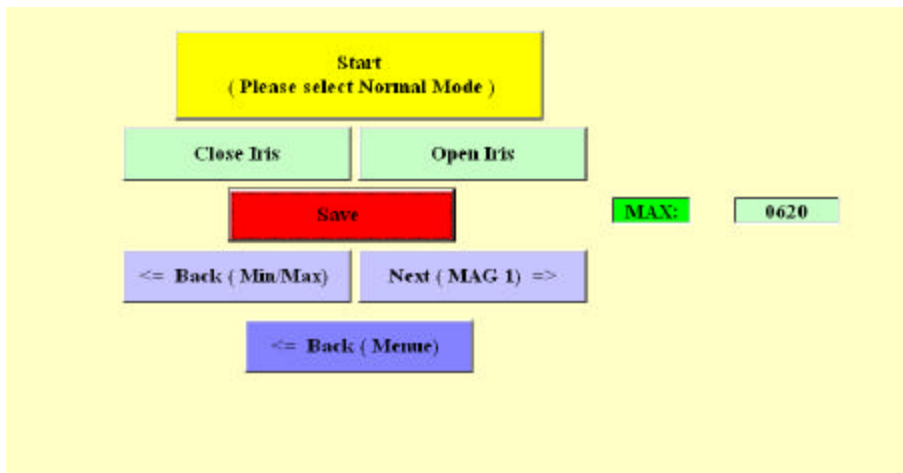
Press „START“ Button after select the Normal Mode



Use „Close Iris“ and „Open Iris“ Buttons or Collimator Key´s from the C-Arm Keyboard to adjust the Iris Collimator the the Position for „Normal – Mode“
(Note: Collimator position only a little bit outside the x-Ray Picture



you will see the actual Position (value 0 – 1000) behind MAX
Note you can press SAVE Button so oft you want
after save the osition you can select „NEXT (MAG 1)“



Press “Next (MAG 1)”

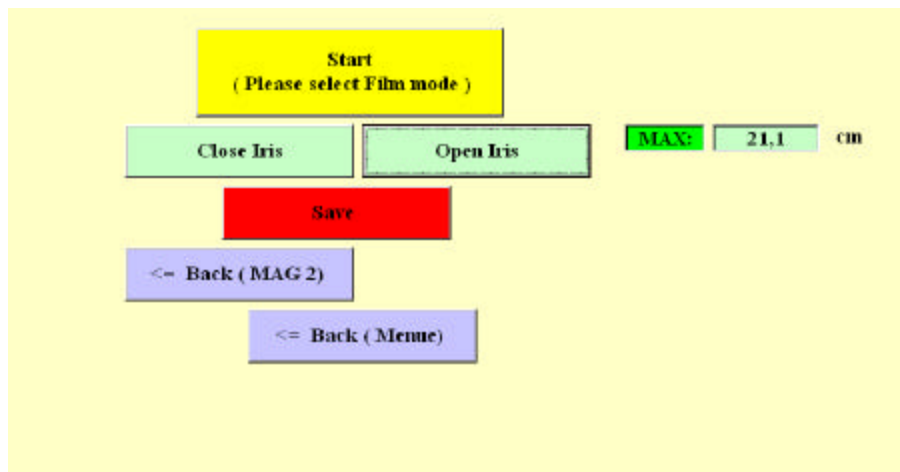
Select Hadn Mode **or** MAG Mode from the C-Arm Keyboard
adjust the Iris Position
save Iris Position

Press “Next (MAG 2)”

Select Hand Mode **and** MAG Mode from the C-Arm Keyboard
adjust the Iris Position
save Iris Position

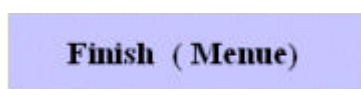
Press “Next (FILM)”

Select Hand Mode **and** MAG Mode from the C-Arm Keyboard
adjust the Iris Position to 21.1 cm – 21,3 cm



save Iris Position

and press



IRIS Callibration for each Mode is now finish

4. Preview Adjustment

Start Preview Adjustment

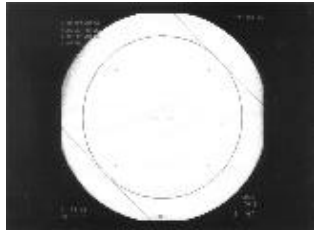
Press „Start (200)“

Start (200)	Important: Please select 'permanent preview on' in the setup-menu of the image-processor
	1) Press START-button for beginning calibration 2) make XRAY 3) adjust collimator to the preview position 4) stop XRAY 5) activate SAVE-button
Save (200)	
Finish (Menu)	

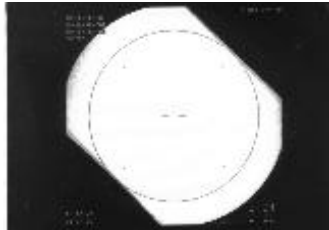
Start (200)	Important: Please select 'permanent preview on' in the setup-menu of the image-processor												
<table><tr><td>Slot 1</td><td>close</td><td>open</td></tr><tr><td>Slot 2</td><td>close</td><td>open</td></tr><tr><td>Rotate</td><td>CW</td><td>CWW</td></tr><tr><td>Iris</td><td>close</td><td>open</td></tr></table>	Slot 1	close	open	Slot 2	close	open	Rotate	CW	CWW	Iris	close	open	1) Press START-button for beginning calibration 2) make XRAY 3) adjust collimator to the preview position 4) stop XRAY 5) activate SAVE-button
Slot 1	close	open											
Slot 2	close	open											
Rotate	CW	CWW											
Iris	close	open											
Save (200)													
Finish (Menu)													



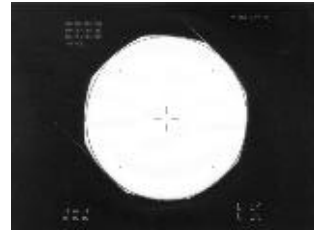
Use Collimator Button's to adjust Slot Collimator and Iris Collimator to the Preview Line



Step 1

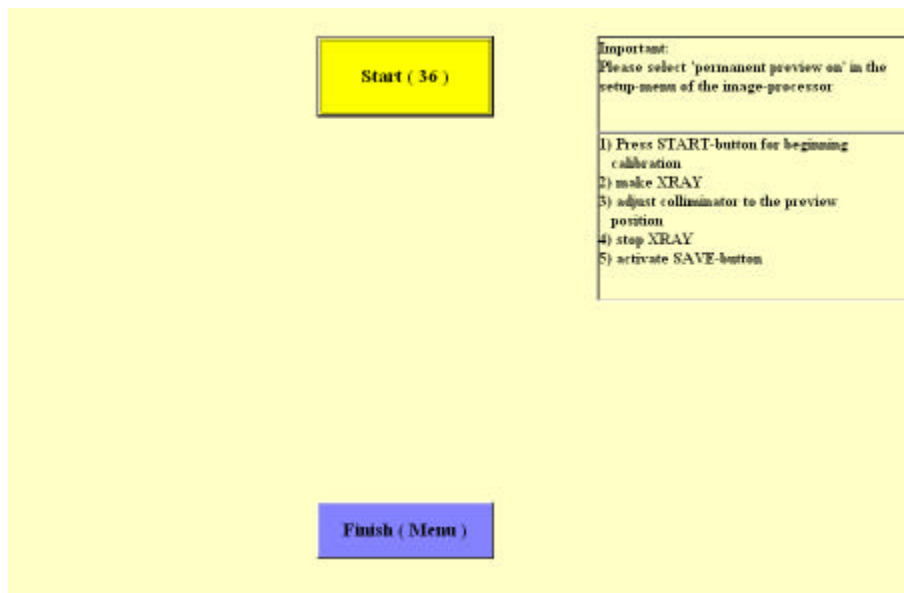


Step 2



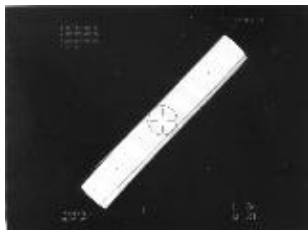
Step 3

after adjustment press Button „Save (200)“



Start (36)

Use Collimator Button's to adjust Slot Collimator and Iris Collimator to the Preview Line



Step 1



Step 2

Press „Save (36)“

Press „finish“

Preview Adjustment is now finish

Select Permanent Preview : „**OFF**“ (see: Monitorcart settings for Preview)

NOTE: B345 Version is now Change from nc to c (not callibrated to callibrated)

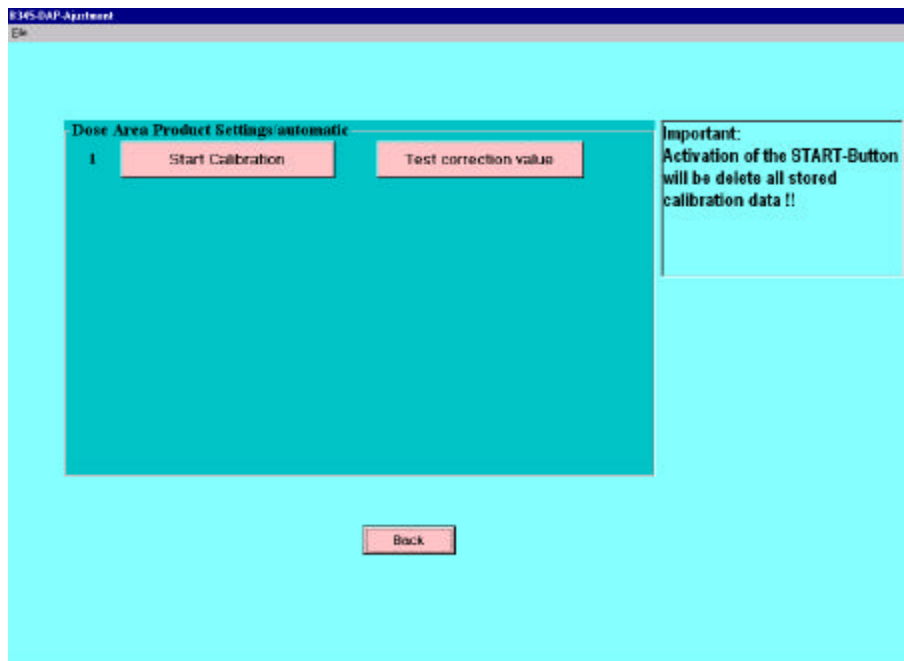
5. DAP Adjustment

Start DAP Adjustment	DAP installed	V
	DAP not installed	

„DAP installed“ or „DAP not installed“ is active after connection to B345

if „DAP installed“ selected than IPS unit start all necessary communication for DAP
if „DAP not installed“ selected than IPS unit will not start communication for DAP

press „Start calibration“



Dose Area Product Settings/automatic

1	Start Calibration		
2	Area	000	cm2 (measured)

Enter Area example „90 cm²“ measured on II

Dose Area Product Settings/automatic

1	Start Calibration		
2	Area	90	cm2 (measured)
3	confirm Reset of all DAP displays		

Reset all DAP displays

Dosesmeasurement

System 7700 Series make a new patient“

System 7700 Compact press power on and Image store

Select reset DAP

than pess “confirm Reset all DAP displays”

Dose Area Product Settings/automatic

1	Start Calibration		
2	Area	90	cm2 (measured)
3	Determination of dosis/Start	0000	mGy * cm2

select 75 kV manual
Please make X-RAY (measure external 2500µG)

Dose Area Product Settings/automatic

1	Start Calibration		
2	Area	90	cm2 (measured)
3	Determination of dosis/End	22	mGy * cm2
4	Dose	0000	uGy (measured, exten)

after X-RAY off
please enter external measured DOSE Value

Dose Area Product Settings/automatic

1	Start Calibration		
2	Area	90	cm2 (measured)
3	Determination of dosis/End	7	mGy * cm2
4	Dose	80	uGy (measured, extern)

Set new correction value

EXAMPLE "80"

press "Set new correction value"

System will save Mean value, toleranc and correction value to B345

Test correction value

pre "test correction value"

Dose Area Product Settings/automatic

1	Start Calibration	Test correction value
---	-------------------	-----------------------

Enter Area

Dose Area Product Settings/automatic

1 Test correction value

2 Area 000 cm2 (measured)

Example „90cm²“

Dose Area Product Settings/automatic

1 Test correction value

2 Area 90 cm2 (measured)

3 confirm Reset of all DAP displays

“confirm Reset of all DAP displays

Dose Area Product Settings/automatic

1 Test correction value

2 Area 90 cm2 (measured)

3 Determination of dosis/Start 0000 mGy * cm2

start X-RAY

Dose Area Product Settings/automatic

1 Test correction value

2 Area 90 cm2 (measured)

3 Determination of dosis/End 7 mGy * cm2

4 Dose 79 uGy (measured, extern)

Analyse correction value

Enter external measured Dose
Example „79“

pre „Analyse correction value“

B345-DAP-Valuation

File

Beam field size (Area) A = 90 cm2

Dose value Ke = 79 uGy = 0,079 mGy

Dose area product Ke * A = 7,11 mGy * cm2

Display value DAP = 7 mGy * cm2

Valuation: Display error = -2 %

Correction value DAP = 1,03

Back

for this example Valuation: Display error = -2%