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59 75575 BARCOGRAPHICS 1208 150494

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**BARCO**  
BARCO PROJECTION SYSTEMS

**BARCO** GRAPHICS  
1208

90 00890 - 90 00891  
90 00898 - 90 00899

INSTALLATION MANUAL

Date:  
150494



Revision:  
01



Art. No.  
59 75575

**SAFETY INSTRUCTIONS**

**WARNINGS**

**SAFETY INSTRUCTIONS**

- on safety
- on installation
- on servicing
- on cleaning
- on repacking
- on illumination

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## SAFETY INSTRUCTIONS

	<b>CAUTION</b> RISK OF ELECTRICAL SHOCK DO NOT OPEN	
<b>CAUTION :</b> TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL		

The lightning flash with an arrowhead within a triangle is intended to tell the user that parts inside this product may cause a risk of electrical shock to persons.



The exclamation point within a triangle is intended to tell the user that important operating and/or servicing instructions are included in the technical documentation for this equipment.



**WARNING**  
**TO PREVENT FIRE OR ELECTRICAL SHOCK HAZARD, DO NOT EXPOSE THIS PROJECTOR TO RAIN OR MOISTURE**

### FEDERAL COMMUNICATION COMMISSION (FCC STATEMENT)

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for Class A computing device pursuant to Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures be required to correct the interference.

Note: The use of shielded cables is required to comply within the limits of Part 15 of FCC rules.

## SAFETY INSTRUCTIONS

### Notice on Safety

Projectors are built in accordance with the requirements of the international safety standards IEC 950 and UL 1950, which are the safety standards of information technology equipment including electrical business equipment.

These safety standards impose important requirements on the use of safety critical components, materials and isolation, in order to protect the user or operator against risk of electric shock and energy hazard, and having access to live parts. Safety standards also impose limits to the internal and external temperature rises, radiation levels, mechanical stability and strength, enclosure construction and protection against the risk of fire.

Simulated single fault condition testing ensures the safety of the equipment to the user even when the equipment's normal operation fails.

### INSTALLATION INSTRUCTIONS

*Before operating your projector please read this manual thoroughly, and retain it for future reference.*

*Installation and preliminary adjustments should be performed by qualified BARCO personnel or authorized BARCO service dealers.*

### OWNER'S RECORD

The part number and serial number are located at the rear of the projector. Record these numbers in the spaces provided below. Refer to them whenever you call upon your BARCO dealer regarding this product.

**PART NUMBER:**

**SER. NUMBER:**

**DEALER:**

## SAFETY INSTRUCTIONS

### B. Power cord with ANSI 73.11 plug:



The wires of the power cord are colored in accordance with the following code:

Green/yellow: ground  
White: neutral  
Black: line (live)

3. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.

To disconnect the cord, pull it out by the plug. Never pull the cord itself.

4. If an extension cord is used with this product, make sure that the total of the ampere ratings on the products plugged into the extension cord does not exceed the extension cord ampere rating. Also make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.

5. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electrical shock.

Never spill liquid of any kind on the product. Should any liquid or solid object fall into the cabinet, unplug the set and have it checked by qualified service personnel before resuming operations.

6. Lighting - For added protection for this video product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the projector due to lightning and AC power-line surges.

### On installation

1. Do not place this projector on an unstable cart, stand, or table. The projector may fall, causing serious damage to it.
2. Do not use this projector near water.

## SAFETY INSTRUCTIONS

- All the safety and operating instructions should be read before using this unit.
- The safety and operating instructions manual should be retained for future reference.
- All warnings on the projector and in the documentation manuals should be adhered to.
- All instructions for operating and use of this equipment must be followed precisely.

### On safety

1. This product should be operated from an AC power source

Operating AC power voltage of the projector:

BARCOGRAPHICS 1208  
Art. No. 90 00890 (230V/AC)  
Art. No. 90 00899 (120V/AC)

The type of power source is indicated by the art. no. on the identification plate on the rear of the projector.

If you are not sure of the type of AC power available, consult your dealer or local power company.

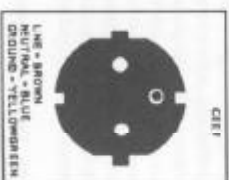
2. This product is equipped with a 3-wire grounding plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the purpose of the grounding-type plug.

**WARNING FOR THE CUSTOMERS: THIS APPARATUS MUST BE GROUNDED (EARTHED) via the supplied 3 conductor AC power cable. (If the supplied power cable is not the correct one, consult your dealer.)**

### A. Mains lead (AC Power cord) with CEE 7 plug:

The colors of the mains lead are colored in accordance with the following code:

Green-and-yellow: Earth (safety earth)  
Blue: Neutral  
Brown: Line (Live)



## SAFETY INSTRUCTIONS

stains may be removed with a cloth lightly dampened with mild detergent solution. Never use strong solvents, such as thinner or benzine, or abrasive cleaners, since these will damage the cabinet.

- To ensure the highest optical performance and resolution, the projection lenses are specially treated with an anti-reflective coating; therefore, avoid touching the lens. To remove dust on the lens, use a soft dry cloth. Do not use a damp cloth, detergent solution, or thinner.

### On repacking

Save the original shipping carton and packing material; they will come in handy if you ever have to ship your projector. For maximum protection, repack your set as it was originally packed at the factory.

### On illumination

In order to obtain the best quality for the projected image, it is essential that the ambient light which is allowed to fall on the screen be kept to an absolute minimum.

When installing the projector and screen, care must be taken to avoid exposure to ambient light directly on the screen. Avoid adverse illumination on the screen from direct sunlight or fluorescent lighting fixtures.

The use of controlled ambient lighting, such as incandescent spot light or a dimmer, is recommended for proper room illumination. Where possible, care should also be taken to ensure that the floors and walls of the room in which the projector is to be installed are non-reflecting, dark surfaces. Brighter surfaces will tend to reflect and diffuse the ambient light and hence reduce the contrast of the projected image on the screen.

## SAFETY INSTRUCTIONS

9

## SAFETY INSTRUCTIONS

3 Slots and openings in the cabinet and the back or bottom are provided for ventilation, to ensure reliable operation of the projector and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This projector should not be placed in a built-in installation or enclosure unless proper ventilation is provided.

### On servicing

Do not attempt to service this projector yourself, as opening or removing covers may expose you to dangerous voltage potentials and risk of electric shock. Refer all servicing to qualified service personnel.

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power cord or plug is damaged or frayed.
- b. If liquid has been spilled into the projector.
- c. If the product has been exposed to rain or water.
- d. If the product does not operate normally when the operating instructions are followed. Note: Adjust only those controls that are covered by the operating instructions since improper adjustment of the other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
- e. If the product has been dropped or the cabinet has been damaged.
- f. If the product exhibits a distinct change in performance, indicating a need for service.

**Replacement parts** - When replacement parts are required, be sure the service technician has used original BARCO replacement parts or authorized replacement parts which have the same characteristics as the BARCO original part. Unauthorized substitutions may result in degraded performance and reliability, fire, electric shock or other hazards. Unauthorized substitutions may void warranty.

**Safety check** - Upon completion of any service or repairs to this projector, ask the service technician to perform safety checks to determine that the projector is in proper operating condition.

### On cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

- To keep the cabinet looking brand-new, periodically clean it with a soft cloth. Stubborn

## SAFETY INSTRUCTIONS

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## UNPACKING AND DIMENSIONS

1. Open the top of the box by pulling the top flap down.



2. Remove the top flap and set it aside.



3. Carefully lift the unit out of the box, avoiding damage to the unit.



## UNPACKING DIMENSIONS

4. The unit is shown in its original packaging. The dimensions of the unit are as follows:

## 11 UNPACKING AND DIMENSIONS

## SAFETY INSTRUCTIONS

1. Read the safety instructions carefully before using the unit.

2. Do not use the unit in a wet or damp environment.

3. Do not touch the unit with wet hands.

4. Do not use the unit near flammable liquids or gases.

5. Do not use the unit near open flames.

6. Do not use the unit near electrical equipment.

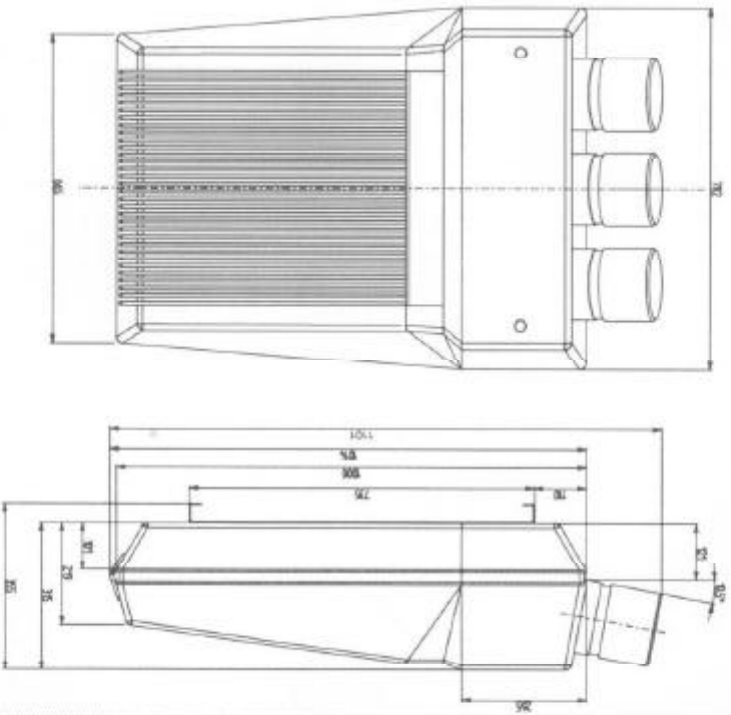
7. Do not use the unit near children or pets.

8. Do not use the unit near heat sources.

## 10 SAFETY INSTRUCTIONS

## UNPACKING AND DIMENSIONS

### Projector dimensions



## UNPACKING AND DIMENSIONS

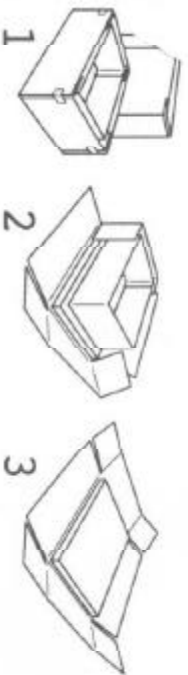
## UNPACKING AND DIMENSIONS

### Unpacking

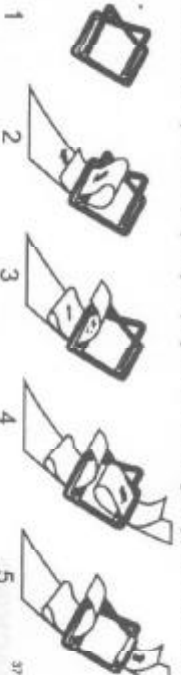
To open the banding, pull on the clip as shown in the first drawing.



Take the projector out of its shipping carton and place it on a table.



Save the original shipping carton and packing material, they will come in handy if you ever have to ship your projector. For maximum protection, repack your projector as it was originally packed at the factory.



To remount the banding, follow the instructions as given in the drawing above.

Contents of the shipped box:

- 1 BARCOGRAPHICS 1200.
- 1 remote control
- 1 power cable with outlet plug type CEET or ANSI 73.11.
- 1 owner's manual.
- 1 installation manual.

## UNPACKING AND DIMENSIONS

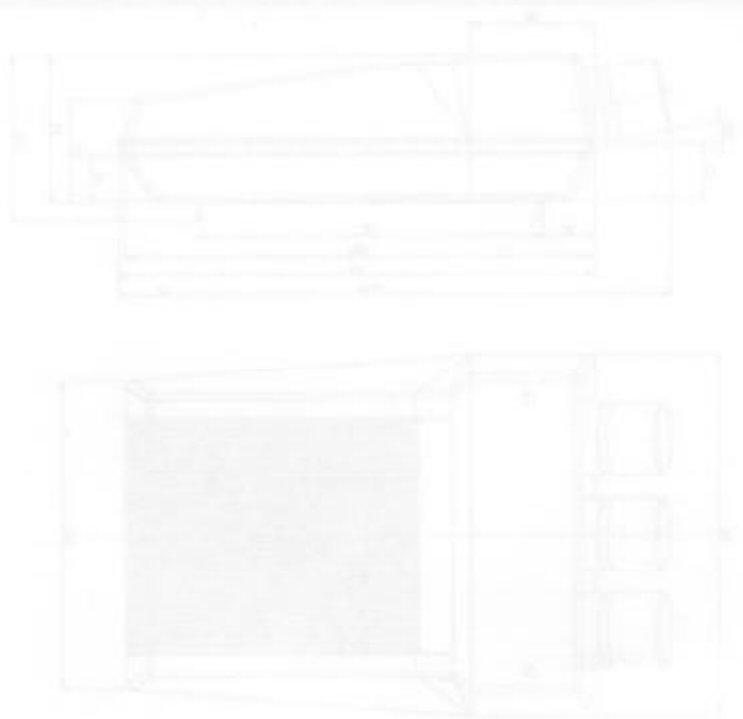
## INSTALLATION GUIDELINES



### INSTALLATION GUIDELINES

- Environment
- What about ambient light?
- Which screen type?
- What image size? How big should the image be?
- Where to install the projector?
- How to install the projector?

## UNPACKING AND DIMENSIONS





## INSTALLATION GUIDELINES

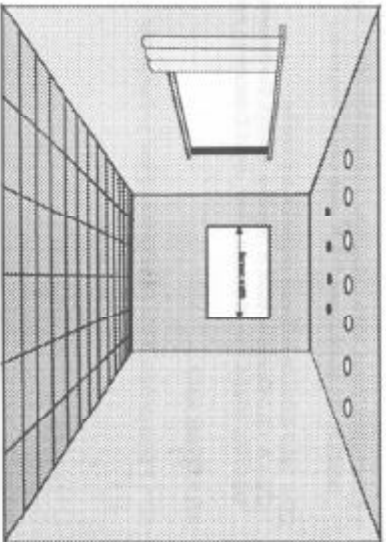
### • Which screen type?

There are two major categories of screens used for projection equipment. Those used for front projected images and those for rear projection applications.

Screens are rated by how much light they reflect (or transmit in the case of rear projection systems), given a determined amount of light projected toward them. The 'GAIN' of a screen is the term used. Front and rear screens are both rated in terms of gain. The gain of screens range from a white matte screen with a gain of 1 (x1) to a brushed aluminumized screen with a gain of 10 (x10) or more. The choice between higher and lower gain screens is largely a matter of personal preference and another consideration called the Viewing angle.

In considering the type of screen to choose, determine where the viewers will be located and go for the highest gain screen possible. A high gain screen will provide a brighter picture but reduce the viewing angle.

*For more information about screens, contact your local screen supplier.*



### • What image size? How big should the image be?

The BARCOGRAPHICS 1208 is designed for projecting an image width from 1.2m (4') to 6m (20') with an aspect ratio of 4 to 3. It leaves the BARCO factory, adjusted as a ceiling front projector for a screen width of 2.4m. Changing the image size from the factory preset requires a realignment of the projector.

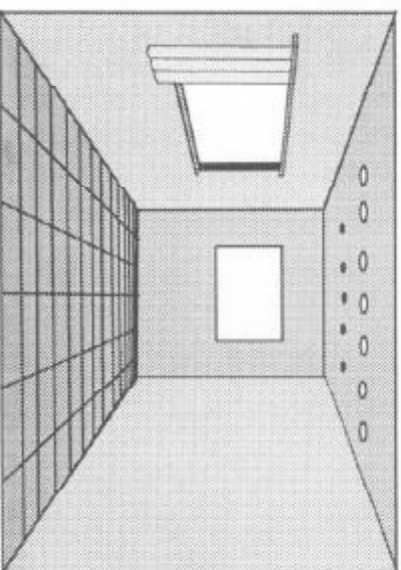
## INSTALLATION GUIDELINES

### Installation guidelines

Careful consideration of things such as image size, ambient light level, projector placement and type of screen to use are critical to the optimum use of the projection system.

### • Environment

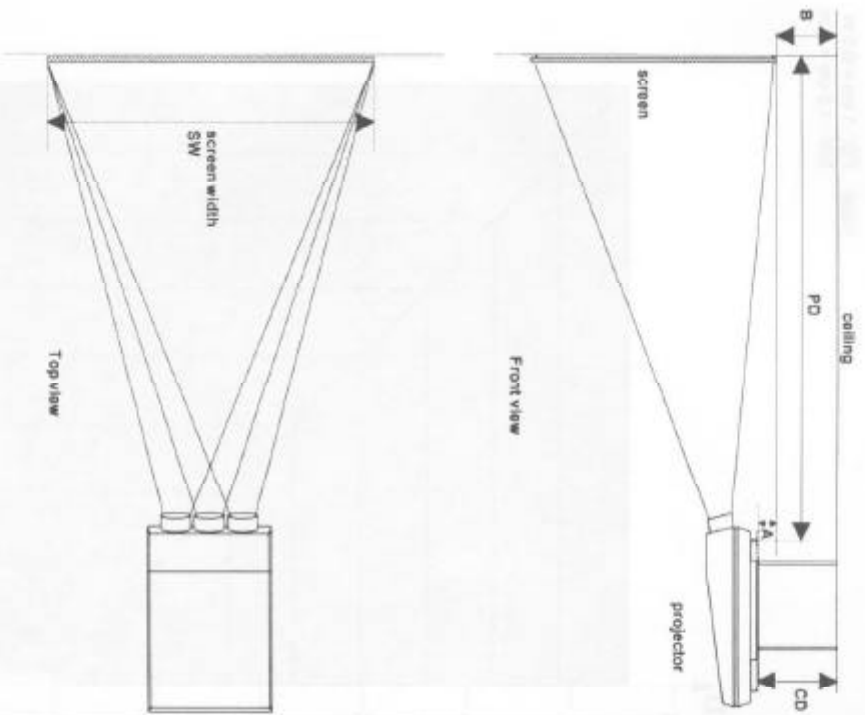
Do not install the projection system in a site near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust or humidity. Be aware that room heat rises to the ceiling; check that the temperature near the installation site is not excessive.



### • What about ambient light ?

The ambient light level of any room is made up of direct or indirect sunlight and the light fixtures in the room. The amount of ambient light will determine how bright the image will appear. So, avoid direct light on the screen.

Windows that face the screen should be covered by opaque (crappy while the set is being viewed. It is desirable to install the projecting system in a room whose walls and floor are of non-reflecting material. The use of recessed ceiling lights and a method of dimming those lights to an acceptable level is also important. Too much ambient light results in a 'wash out' of the projected image. This appears as less contrast between the darkest and lightest parts of the image. With bigger screens, the 'wash out' becomes more important. As a general rule, darken the room to the point where there is just sufficient light to read or write comfortably. Spot lighting is desirable for illuminating small areas so that interference with the screen is minimal.



**• Where to install the projector?**

To indicate a correct installation position it is necessary to know the distance :

- projector - ceiling
- projector - screen

To find this correct position for the BARCOGRAPHICS 1208 equipped with HD120 lenses, 3 possible ways are indicated in the next paragraphs:

- a diagram which indicates PD (projector to screen distance) and a Correction Value A, both in function of the screen width
- a table which immediately gives the correct position PD and the Correction Value A for different screen widths
- a formula which directly gives the correct position PD and the Correction Value A.

Abbreviations used on drawing and diagrams on next pages

B = Distance between ceiling and top of the screen.

A = Correction Value, extra value to be added to B to obtain the correct installation position. (In some cases the A value can be negative.)

CD = Total distance between projector and ceiling

CD = A + B (When the result is negative, enlarge the distance between ceiling and top of the screen, mount screen lower, until CD becomes zero or positive)

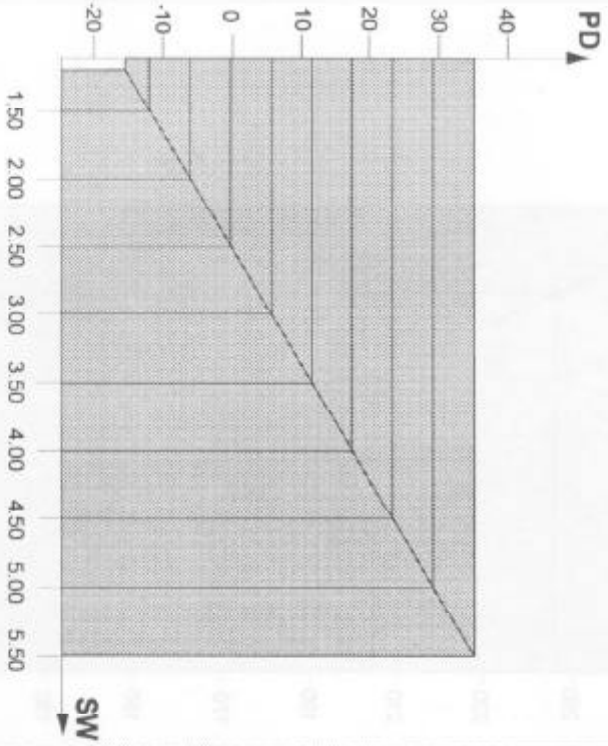
SW = Screen width.

PD = Perpendicular distance between screen and projector.

### INSTALLATION GUIDELINES

Correction value A with regard to the screen width for HD8 lenses (metric).

scale : SW : 1 cm = 0.5 m  
A : 1 cm = 10 cm

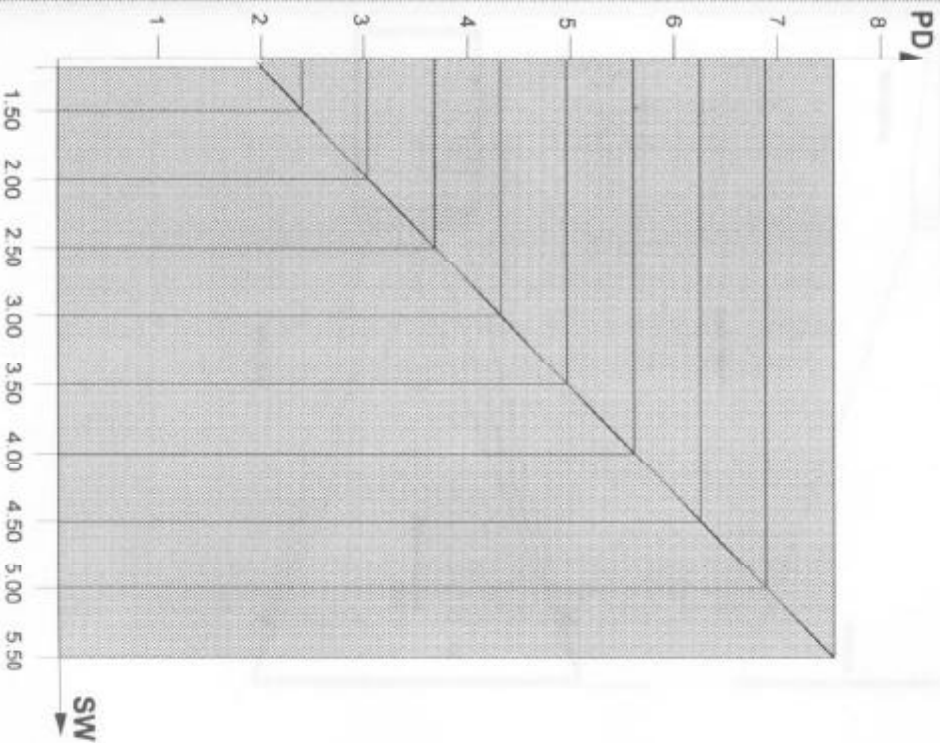


21 INSTALLATION GUIDELINES

### INSTALLATION GUIDELINES

Projector to screen distance with regard to the screen width for HD8 lenses (metric).

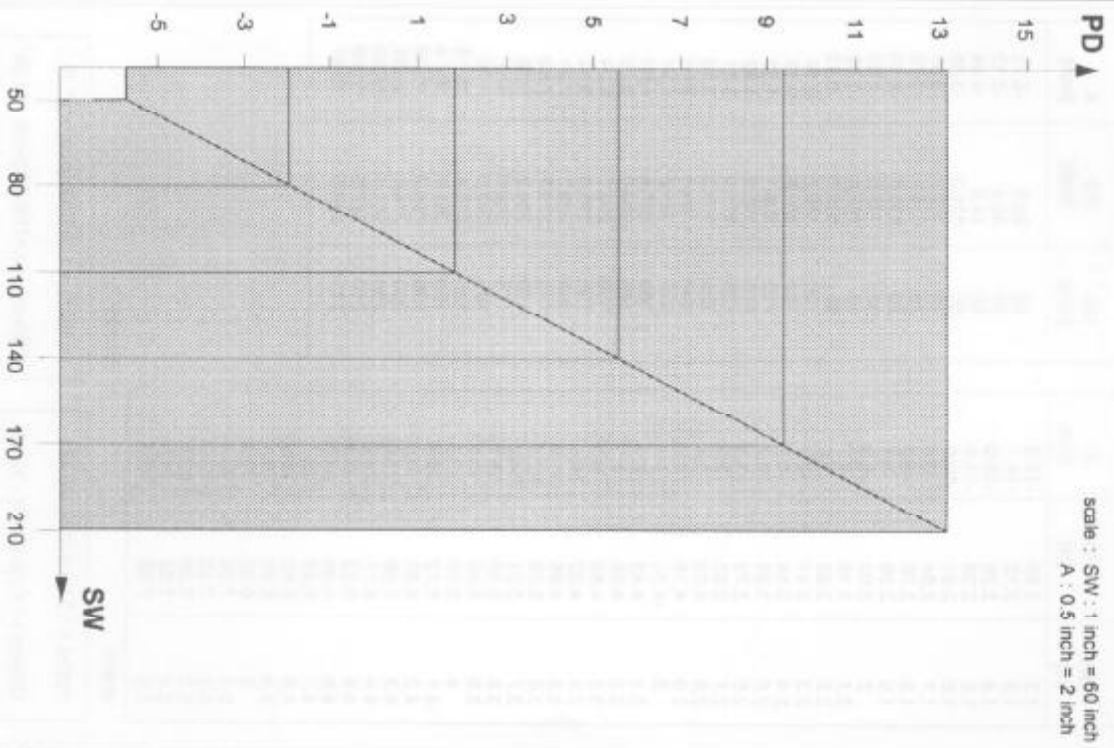
scale : PD : 1 cm = 0.5 m  
SW : 1.5 cm = 1 m



20 INSTALLATION GUIDELINES

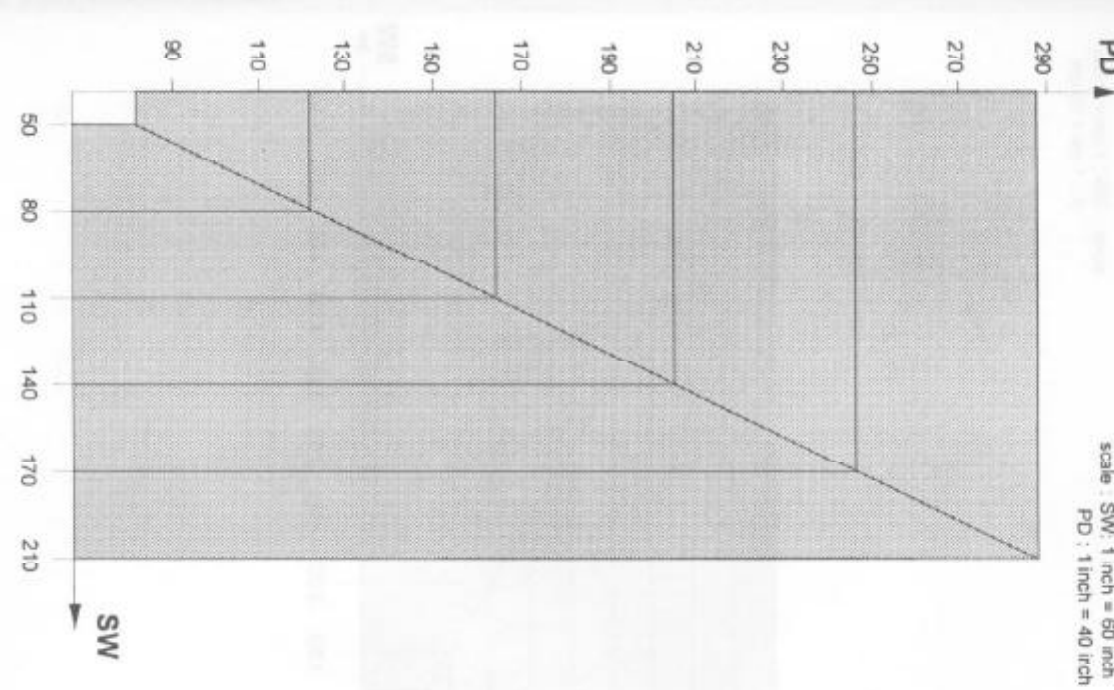
### INSTALLATION GUIDELINES

Correction value A with regard to the screen width for HD8 lenses (inch).



### INSTALLATION GUIDELINES

Projector to screen distance with regard to the screen width for HD8 lenses (inch).



## INSTALLATION GUIDELINES

### \* How to install the projector?

**Ceiling mount or table mount?**  
To install the BARCOGRAPHICS 1208, apply always the BARCO peripherals which are specially designed for this function.

#### BARCO ceiling support:

Always use the BARCO ceiling support to attach your BARCOGRAPHICS 1208 to the ceiling. (BARCO order number : 98 27340)

The installation instruction for this support is enclosed in the packet of the set. You can order these instructions also by BARCO. BARCO order number 59 75693.

Appendix A gives a short overview of the setup of the BARCO Ceiling Support.

#### BARCO projection table:

Height adaptable projection table provides a stable stand for your projector, and makes it possible to adapt the projector perfectly to the local requirements. (BARCO order number 98 27740).

## INSTALLATION GUIDELINES

Distance tables for Projector to screen distance and ceiling distance corrector value.

SW [m]	PD [m]	A [cm]	SW [inch]	PD [inch]	A [inch]
1.2	1.99	-15.3	50	82.0	-5.72
1.3	2.12	-14.1	55	88.4	-5.13
1.4	2.25	-13.0	60	94.8	-4.54
1.5	2.38	-11.8	65	101.2	-3.95
1.6	2.51	-10.6	70	107.7	-3.37
1.7	2.64	-9.4	75	114.1	-2.78
1.8	2.76	-8.3	80	120.5	-2.19
1.9	2.89	-7.1	85	126.9	-1.60
2	3.02	-5.9	90	133.4	-1.02
2.1	3.15	-4.7	95	139.8	-0.43
2.2	3.28	-3.6	100	146.2	0.16
2.3	3.41	-2.4	105	152.6	0.75
2.4	3.54	-1.2	110	159.1	1.33
2.5	3.66	-0.7	115	165.5	1.92
2.6	3.79	1.1	120	171.9	2.51
2.7	3.92	2.2	125	178.3	3.10
2.8	4.05	3.4	130	184.8	3.68
2.9	4.18	4.6	135	191.2	4.27
3	4.31	5.8	140	197.6	4.86
3.1	4.43	6.9	145	204.0	5.45
3.2	4.56	8.1	150	210.5	6.04
3.3	4.69	9.3	155	216.9	6.62
3.4	4.82	10.5	160	223.3	7.21
3.5	4.95	11.6	165	229.7	7.80
3.6	5.08	12.8	170	236.2	8.38
3.7	5.21	14.0	175	242.6	8.97
3.8	5.33	15.2	180	249.0	9.56
3.9	5.46	16.3	185	255.4	10.15
4	5.59	17.5	190	261.9	10.74
4.1	5.72	18.7	195	268.3	11.32
4.2	5.85	19.9	200	274.7	11.91
4.3	5.98	21.0	205	281.1	12.50
4.4	6.11	22.2	210	287.6	13.09
4.5	6.23	23.4	215	294.0	13.67
4.6	6.36	24.6			
4.7	6.49	25.7			
4.8	6.62	26.9			
4.9	6.75	28.1			
5	6.88	29.3			
5.1	7.00	30.4			
5.2	7.13	31.6			
5.3	7.26	32.8			
5.4	7.39	34.0			
5.5	7.52	35.1			

$$PD[m] = 1.285 \times SW[m] + 0.451$$

$$CD[cm] = 11.75 \times SW[cm] - 29.45$$

$$PD[inch] = 1.285 \times SW[inch] + 17.76$$

$$CD[inch] = 0.1175 \times SW[inch] - 11.59$$

## INSTALLATION SET UP

INSTALLATION SET UP

INSTALLATION SET UP

INSTALLATION SET UP

INSTALLATION SET UP



## INSTALLATION SET UP

Access to controls

Scan adaptation

## INSTALLATION GUIDELINES

INSTALLATION GUIDELINES

INSTALLATION GUIDELINES

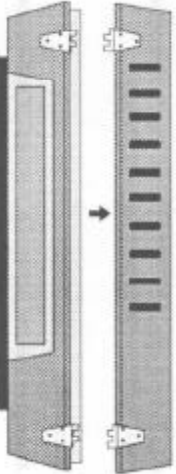
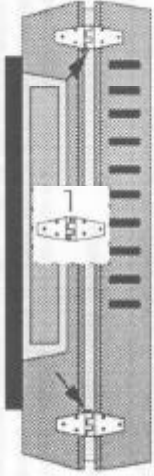
INSTALLATION GUIDELINES

INSTALLATION GUIDELINES

INSTALLATION GUIDELINES

## INSTALLATION SET UP

- During some installations it will become handy to remove the top cover totally. Therefore,
- loosen the screw locks by turning a quarter counter clockwise.
  - pull out the two hinge-joints
  - lift up the top cover.



## INSTALLATION SET UP

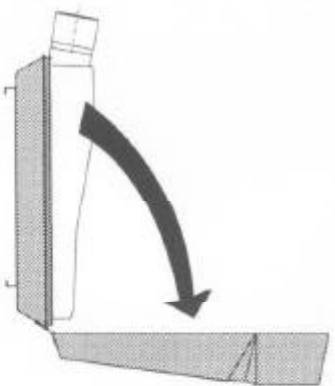
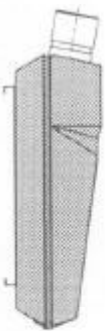
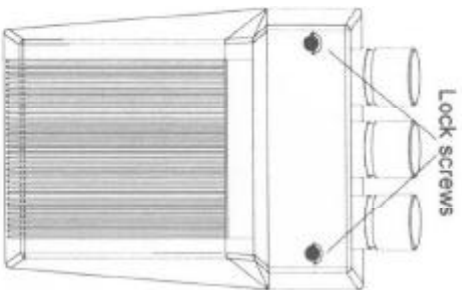
### ACCESS TO CONTROLS.

Opening procedure :

During the projector set up and the installation procedure it is necessary to open the top cover.

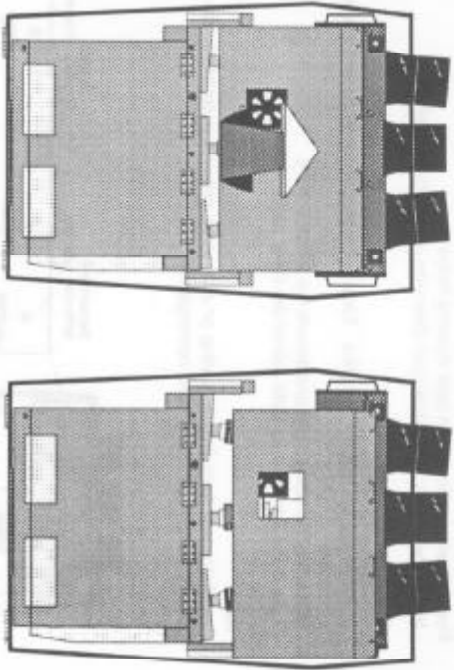
To gain access, handle as follow :

- \* Turn both lock screws with a screwdriver or a coin counter clockwise.
- \* Lift up and pivot the top cover. Attention : the cover is not secured with an incorporated support. When opening, do not let it flip over, otherwise the hinges will break.

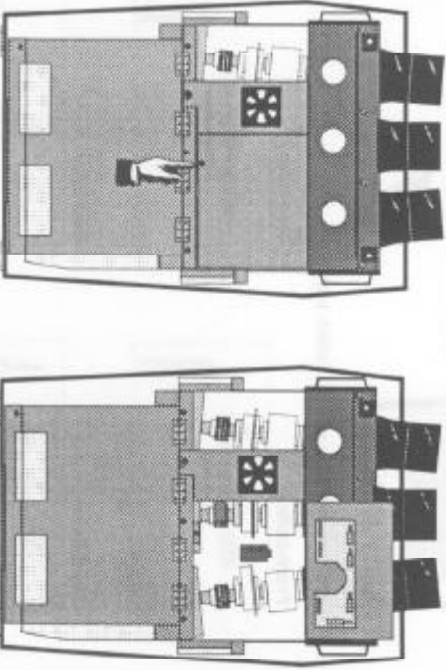


## INSTALLATION SET UP

- Lift up the metal cover plate and pivot it to the lens side.
- Take off the cover plate.



- Loosen the lock screw of the scan switches module plate.
- Pivot the scan switches module plate to the lenses.



## INSTALLATION SET UP

## INSTALLATION SET UP

### Scan adaptation

The scan switches must be placed in the correct position

**Warning**  
TURN OFF PROJECTOR AND UNPLUG THE POWER CORD BEFORE CHANGING A SCANSWITCH POSITION

**A :** horizontal scan inversion

Three switches are used, one for each CRT. When changing the horizontal scan, insure that all three switches are left in the same position. See position of the switches (diagrams on next page) for the corresponding projector position.

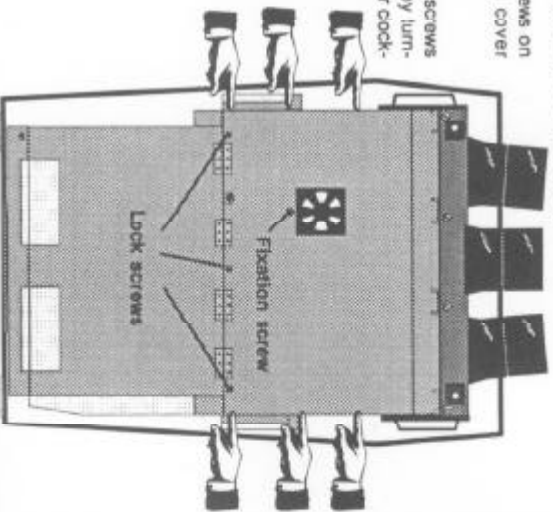
**B :** Vertical scan inversion

One switch for the three CRT's is used. See position of the switch (diagrams on next page) for the corresponding projector position.

Procedure :

Make sure that the projector is switched off and the power cord is disconnected.

- Open the top cover (see access to controls).
- Turn out the 3 screws on both sides of the cover plate.
- Loosen the 3 lock screws with a screwdriver by turning a quarter counter clockwise.
- Remove the fixation screw nearby the fan.



## INSTALLATION SET UP



## INSTALLATION SET UP

E-W correction adaptation on the vertical deflection module.

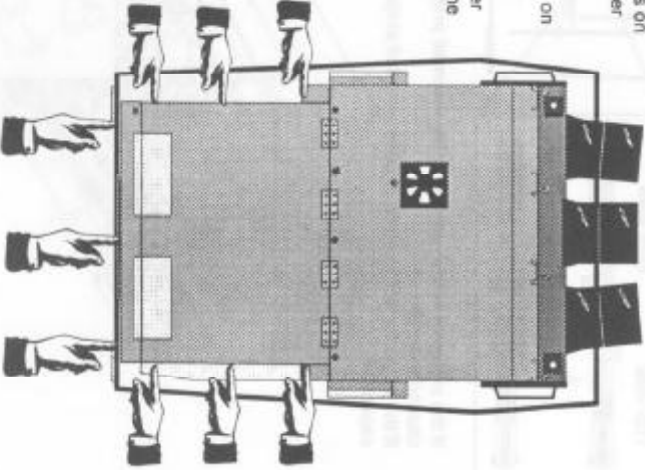
for ceiling mounted configurations, front as well as rear projection :  
plug with inserted capacitor must be installed.

for table mounted configurations, front as well as rear projection :  
plug with inserted capacitor must be removed.

To install or to remove the plug, handle as follow :

*Make sure that the projector is switched off and the power cord is disconnected.*

- Open the top cover (see access to controls).
- Turn out the 3 screws on both sides of the cover plate.
- Loosen the 3 screws on the rear side.
- Lift up the metal cover plate and pivot it to the lens side.



## INSTALLATION SET UP

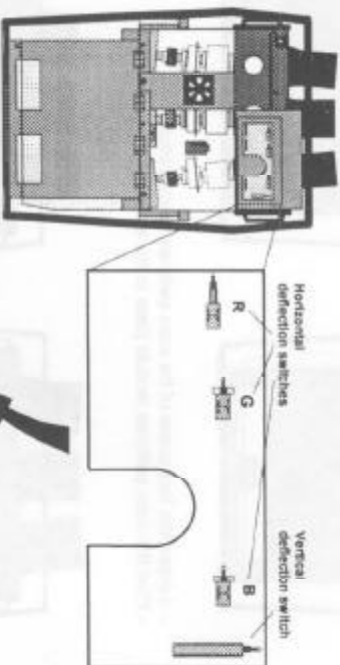
For horizontal scan inversion (see drawing below):  
- toggle the switches for horizontal scan inversion in their correct position.

For vertical scan inversion (see drawing below) :  
- toggle the switch for vertical scan inversion in its correct position.

After scan inversion :

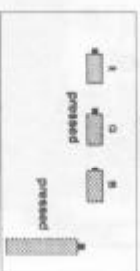
- re-install the fan and the fan plate. Secure the lock screw by turning a quarter clockwise.
- reposition the cover plate and secure the 3 lock screws.
- Turn in the 3 screws on both side of the cover plate.

**Note**  
Switching over from floor to ceiling or vice versa requires a complete readjustment of picture geometry and convergence.

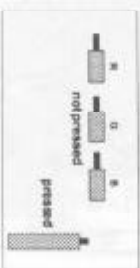


Projector configurations (Switch settings)

Front-ceiling



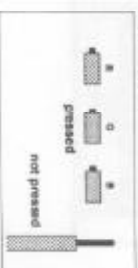
Rear-ceiling



Front-table



Rear-table



## INSTALLATION SET UP

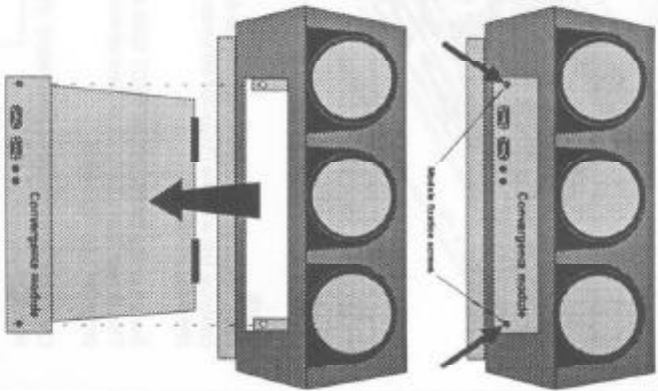
Linearly adaptation on convergence module.

For ceiling mounted configurations, front as well as rear projection plug must be installed.

For table mounted configurations, front as well as rear projection plug must be removed.

To install or to remove the plug, handle as follow :

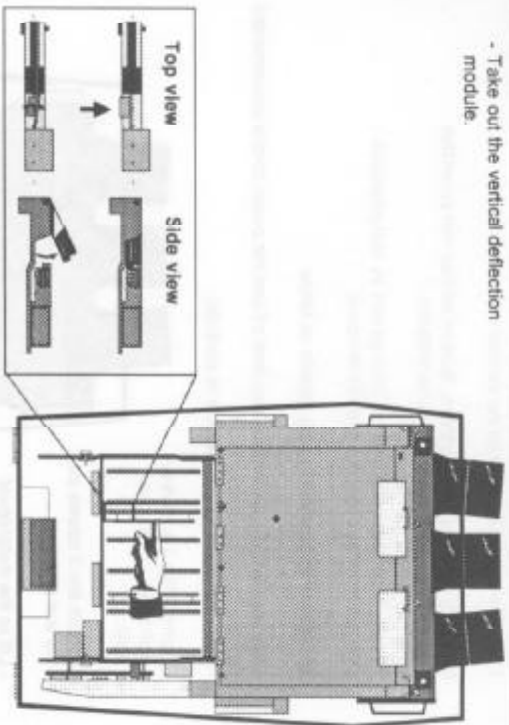
- Loosen the convergence fixation screws and slide out the convergence board.



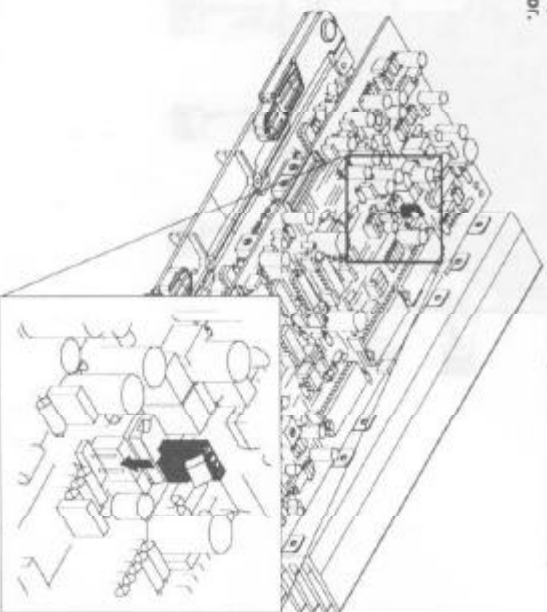
35 INSTALLATION SET UP

## INSTALLATION SET UP

- Take out the vertical deflection module.



If the projector will be used as ceiling mounted projector, mount the plug with capacitor as shown  
If the projector will be used as table mounted projector, remove the plug with capacitor.



34 INSTALLATION SET UP

## INSTALLATION SET UP

- select with the arrow keys 'Service' and press ENTER. The service mode menu will be displayed.
- highlight with the arrow keys 'start up screen' and press ENTER.



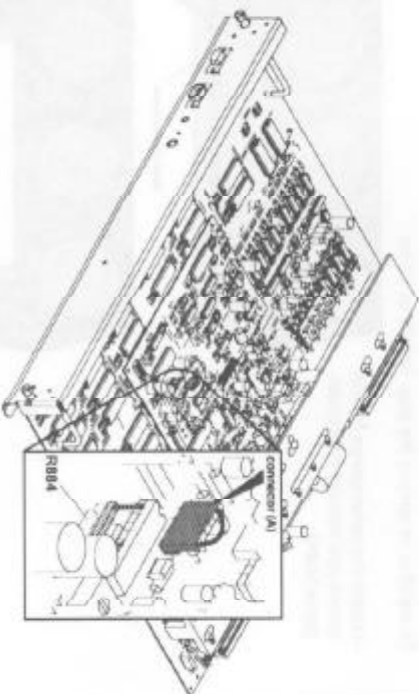
The projector displays the BARCO start up screen.  
This screen gives information about the projector configuration in the subject 'config'.



## INSTALLATION SET UP

The plug must be mounted on its socket when the projector is mounted in the following configuration : Front projection - ceiling mounted.  
Rear projection - table mounted.

The plug must be removed from its socket when the projector is mounted in the following configuration : Rear projection - ceiling mounted.  
Front projection - table mounted.



**Check**  
Note : this check procedure can only be done after power (mains) connection. So, continue first with the *Projector set up* and the connectors and return then to this checking procedure.

Switch on the BARCOGRAPHICS 1208 and look at the "BARCO startup screen". This screen is available in the "Service mode". There you will find an indication of the projector's configuration.

Configuration when leaving the factory : ceiling/front configuration for ascreen size of 2.40m.

- Follow next procedure :
- switch on the projector.
  - the projector starts up on the last selected source.
  - press the ADJUST key on the RCU.
  - your password will be asked (if activated).
  - If it is correct, the path selection menu will be displayed.



## PROJECTOR SET UP

After the projector is powered on, the projector will display the projector menu. The projector menu is used to set the projector's communication parameters. The projector menu is displayed on the projector's LCD panel.

The projector menu is displayed on the projector's LCD panel. The projector menu is used to set the projector's communication parameters. The projector menu is displayed on the projector's LCD panel.

### PROJECTOR SET UP

PROJECTOR ADDRESS

POWER UP MODE

BAUD RATE FOR COMMUNICATION WITH A COMPUTER

PASSWORD



## INSTALLATION SET UP



After the projector is installed, the projector will display the projector menu. The projector menu is used to set the projector's communication parameters. The projector menu is displayed on the projector's LCD panel.

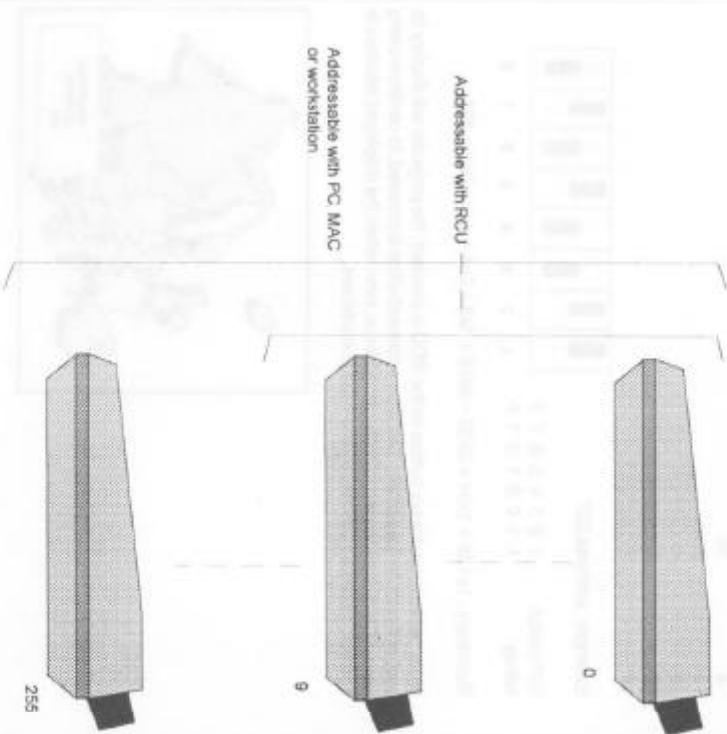
The projector menu is displayed on the projector's LCD panel. The projector menu is used to set the projector's communication parameters. The projector menu is displayed on the projector's LCD panel.

## PROJECTOR SET UP

### Setting the projector address.

The projector's address may be set to any value between 0 and 255. When the address is set, the projector can be controlled now by :

- The RCU for addresses between 0 and 9
- The BM PC (or compatible) or The Apple MAC for addresses between 0 and 255.



PROJECTOR SET UP

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5975575 BARCOGRAPHICS 1208 291193

## PROJECTOR SET UP

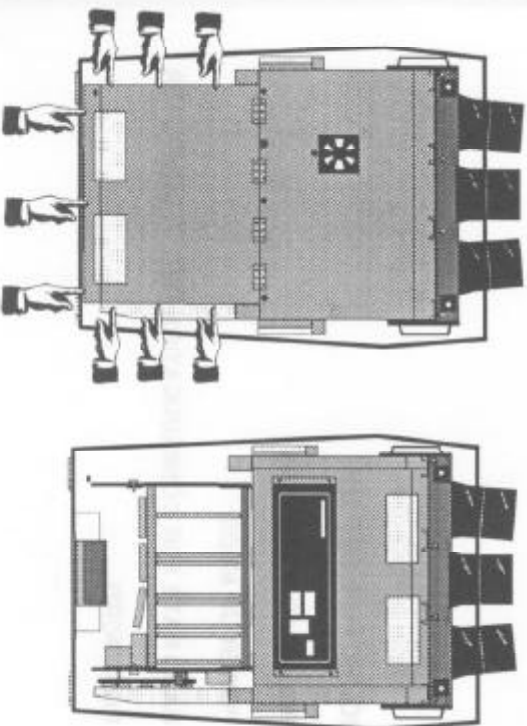
### Projector set up.

The DIP switches on the controller unit allow a set up of the projector.

- projector address (8 DIP switches)
- Power up (1 DIP switch)
- baud rate (3 DIP switches)
- password (1 DIP switch)

To gain access to the DIP switches on the controller unit :

- loosen the 3 screws on both sides (indicated on drawing below) of the frame
- loosen the 3 screws on the rear side of the metal frame.
- lift up the metal cover plate and pivot to the lens side. The controller



PROJECTOR SET UP

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59 75575 BARCOGRAPHICS 1208 291193

## PROJECTOR SET UP

### Power up mode:

The projector can start up in two different modes. The start up mode is determined by the position of DIP switch 4 on the controller unit.

Position of the DIP switch 4 :

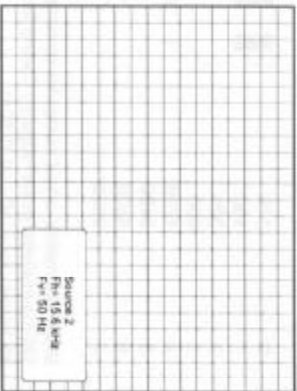
ON : operational mode  
OFF : stand by mode



1. Operational mode :

When the power switch on the rear of the projector is pressed, the projector displays the last selected source if available, otherwise the 'BARCO start up screen' is displayed if no source is present.

Power up mode



2. Stand by mode :

When the power switch on the rear of the projector is pressed, the projector goes into stand-by mode. The stand-by key on the RCU800 is used to turn the projector ON and OFF.

## PROJECTOR SET UP

Address setting is a hardware set up of your projector which must be done during installation. Therefore 8 DIP switches are provided on the controller unit.

Each DIP switch has its own decimal value. The summary of the values associated to those DIP switches gives the address (see table 'address setting').

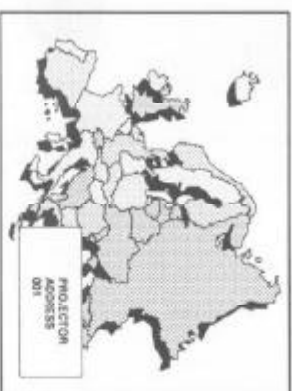
Switch	Value
1	128
2	64
3	32
4	16
5	8
6	4
7	2
8	1

Example : address 202

DIP switch setting	1	2	3	4	5	6	7	8
	1	1	0	0	1	0	1	0

Summary :  $1 \times 128 + 1 \times 64 + 0 \times 32 + 0 \times 16 + 1 \times 8 + 0 \times 4 + 1 \times 2 + 0 \times 1 = 202$

Note : when the address button on the RCU is pressed, the projector will display its own address on the screen. Once the address button is pressed, to continue using your RCU, it is necessary to enter an address, even when the displayed address is correct. Use the numeric keys to enter the address.





45 POWER CONNECTION

Baud rate for communication with a IBM PC (or compatible) or MAC.

The communication speed between projector and PC or MAC has 8 possible settings. With DIP switches 6, 7 and 8 on the controller unit, labelled 'Baud rate code (sum)', it is possible to select the baud rate (communication speed). Each DIP switch has its own decimal value. The summary of the values associated to those DIP switches gives the baud rate code. With each baud rate code corresponds a communication speed.

Position of DIP switches and baud rate codes

baud rate code	speed
0	110
1	150
2	300
3	600
4	1200
5	2400
6	4800
7	9600

More information about computer communication with the BARCOGRAPHICS 1208 is available in the Projector Control Software manual (order number for DOS: 59 75014, for MAC : 59 75224).

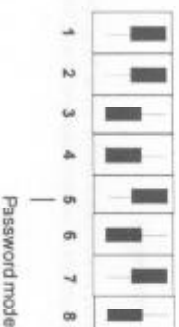
Password mode

With DIP switch 5 on the controller unit, the projector adjustments can be protected with a password. When the password feature is enabled, the customer has to enter a password before he can enter the adjustment mode (for more information about password setting and reprogramming the password, see Installation adjustment).

When the password menus are disabled (adjust mode is unprotected), the adjust mode can be selected by pressing the ADJUST key. This position of the DIP switch is useful for qualified service technicians because they do not need a password to enter the adjust mode.

Position of DIP switch 5 :

- ON : password mode enabled
- OFF : password mode disabled



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## POWER CONNECTION

The wires of the delivered mains lead (power cord) are colored in accordance with the following code:

- Green and yellow : ground
- Blue : neutral
- Brown : live

### B. Power cord with an ANSI 73.11 plug

The wires of the delivered mains lead (power cord) are colored in accordance with the following code :

- Green and yellow : ground (earth)
- White : neutral
- Black : live



### Power check

The power voltage for the projector is indicated on the identification plate on the rear of the projector.

- Art. no. 90 00890 - 90 00891 has to operate on 230 Vac
- Art. no. 90 00898 - 90 00899 has to operate on 120 Vac

If the identification is different from that on the wall outlet, proceed to Input power voltage adaptation.

### Input power (mains) voltage adaptation.

Attention

The BARCOGRAPHICS 1208 - 90 00890 and 90 00891 leaves the factory to operate on a mains (power) input of 230 Vac.

The BARCOGRAPHICS 1208 - 90 00898 - 90 00899 leaves the factory to operate on a mains (power) input of 120 Vac.

Adaptation of the power input of the projector between 230 Vac and 120Vac or vice versa is possible.

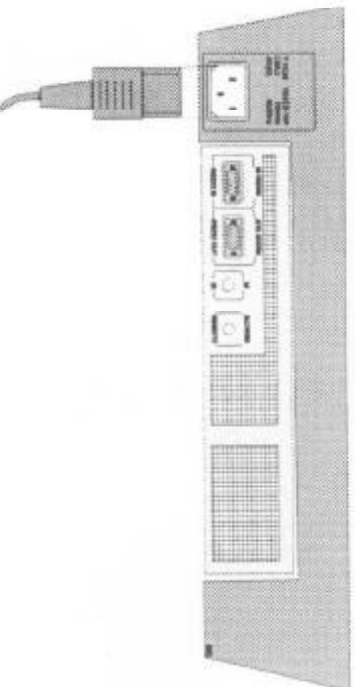
Follow the procedure as described below.

## POWER CONNECTION

## POWER CONNECTION

### Power (mains) cord connection

Use the supplied cord to connect your projector to the wall outlet. Plug the female power connector into the male connector at the back of the projector. This projector may be connected to an IT-power system.

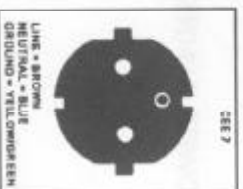


### Preparing your power cord

#### A. Mains lead (power cord) with CEE7 plug.

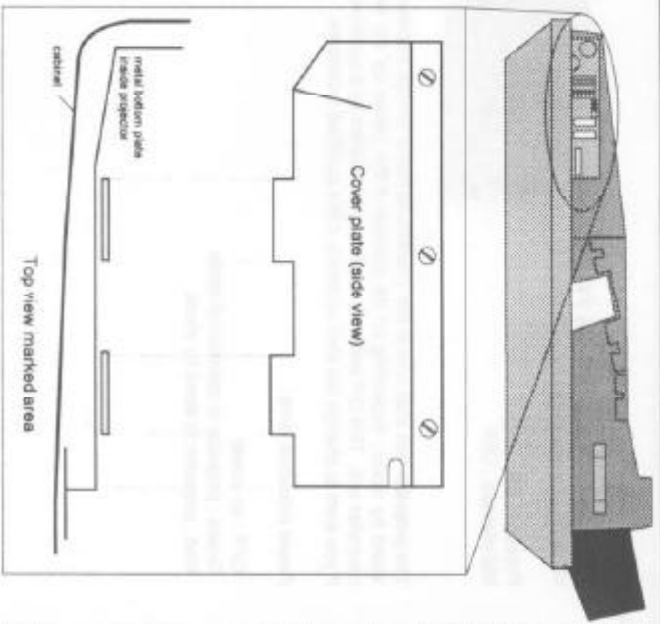
As the colors of the wires in the mains lead of this apparatus may not correspond with the colored markings identifying the terminals in your plug, proceed as follows:

- The green/yellow wire must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  $\perp$  or colored green and yellow.
- The blue wire must be connected to the terminal marked with the letter N or colored black.
- The brown wire must be connected to the terminal marked with the letter L or colored red.



## POWER CONNECTION



**Fuses****Warning**

For continued protection against fire hazard :

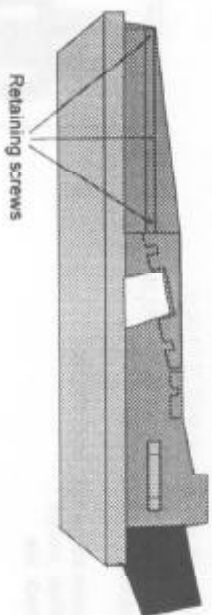
- replace with the same type of fuse.
- refer replacement to qualified service personnel

F1, F2  
For 230 Vac(2x) T5A/250V  
For 120 Vac(2x) T10A/250V

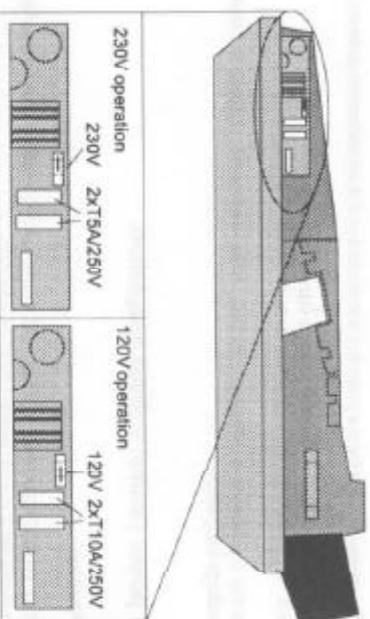
BARCO ord. no.  
31 4104  
31 4154

**Procedure :**

1. Open the top cover (see Getting access to the controls)
2. Unscrew the retaining screw of the power input protection plate.



3. Remove the power input protection by sliding it a little backwards and lifting it up.



4. Pull out the power selector plug and re-insert it as illustrated in the above drawing, depending on the wall outlet in the room.
4. Pull out the fuses and place the correct fuses in their sockets. See table on next page for the correct fuses.
5. Re-install the protection plate.  
Insert the plate until the pins fit into the grooves of the bottom plate. The right side of the plate must be pushed behind the metal frame. The notch fits around the bolt. Secure the correct position by turning in the 3 screws.

## CONNECTIONS



Number	Signal name	Signal description	Pin
1	Power	Power supply	1
2	Video	Video signal	2
3	Audio	Audio signal	3
4	Control	Control signal	4

## CONNECTIONS

Source connections

Peripheral equipment

## POWER CONNECTION

### Switching on

The projector is switched ON and OFF using the power (mains) switch ON/OFF.

Pressed : ON  
Not pressed : OFF



The projector can start now in the 'operational mode' (image displayed) or in the 'stand by mode', depending on the position of the 'power up' dip switch on the controller unit. This DIP switch is set during installation by a qualified technician. If you want to change this start up mode, call a qualified technician.

Power indication lamp:

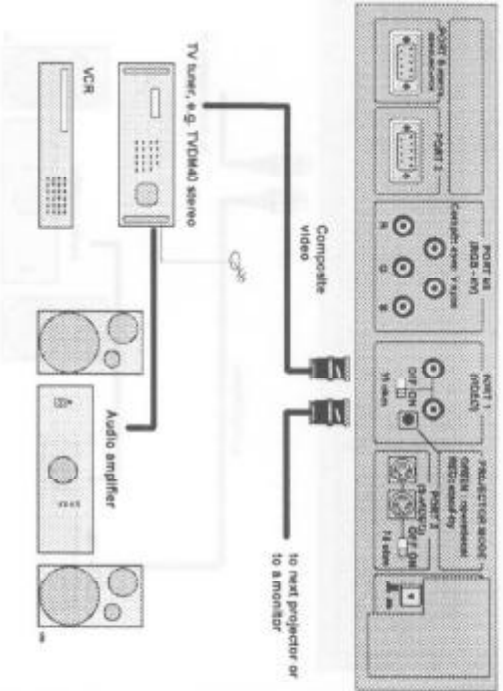
- OFF : no power
- Green : projector in operational mode
- Red : projector in stand by mode



## CONNECTIONS

### Connecting a Composite Video source to port 1.

Composite video signals from a VCR, OFF air signal decoder, etc...



#### Video input selection :

Press digit button 1 on the RCU.

75 ohm termination switch.

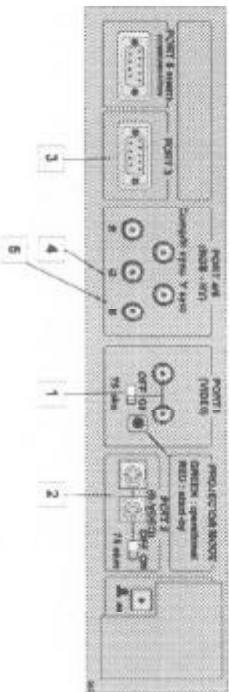
Terminate the video input of the projector using the 75 ohm switch next to the video input panel when the projector operates alone or when it is the last projector on the video line when the projectors are connected in a loop through configuration.

ON : signal terminated  
OFF : signal not terminated

## CONNECTIONS

### Signal input connections to a stand alone projector

Five different types of input sources may be connected directly to the BARCOGRAPHICS 1208.



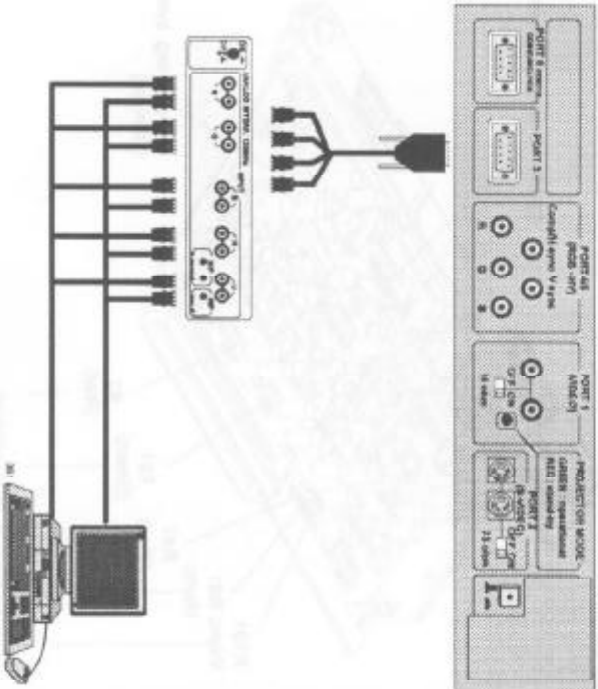
Source No	Projector input	Press digit button
1	Comp. Video	1
2	S-Video*	2
3	RGB analog	3
4	RGSB**	4
5	RGBS***	5

- \* Input signal Y/C (luma/chroma)
- \*\* Input signal : R, G and B with sync on G
- \*\*\* Input signal : R, G and B with separate composite sync (S) or H+V sync

## CONNECTIONS

### Connecting a RGB Analog source to port 3.

Connect your Analog source via an interface to Port 3.  
 RGB analog input with automatic sync detection. (Separate H and V sync inputs, with composite sync input or with sync signals on green.)



Pin configuration D9 connector of the Analog input.

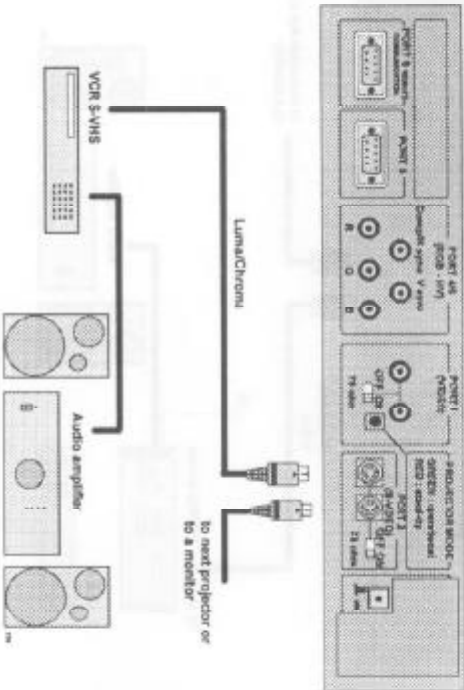
- 1 not connected
- 2 ground RGBS
- 3 RED
- 4 GREEN
- 5 BLUE
- 6 ground RGBS
- 7 ground RGBS
- 8 Horizcomp. sync
- 9 Vert. sync

Analog input selection :  
 Press digit button 3 on the RCU

## CONNECTIONS

### Connecting an S-Video source to port 2

Separate Y-luma/C-chroma signals for higher quality playback of Super VHS signals.



S-Video input selection :

Press digit button 2 on the RCU.

75 ohm termination switch.

Terminate the S-video input of the projector using the 75 ohm switch next to the S-video input panel when the projector operates alone or when it is the last projector on the S-video line when the projectors are connected in a loop through configuration.

ON : signal terminated  
 OFF : signal not terminated

## CONNECTIONS

*Blue in green switch.*

Blue characters are difficult to read, therefore the blue text will be displayed as cyan so that the readability becomes better.

Switch in the ON position : blue in green active.

Switch in the OFF position : blue in green disabled.

*Force to neg. Sync.*

Switch in the ON position : the sync pulses must be negative.

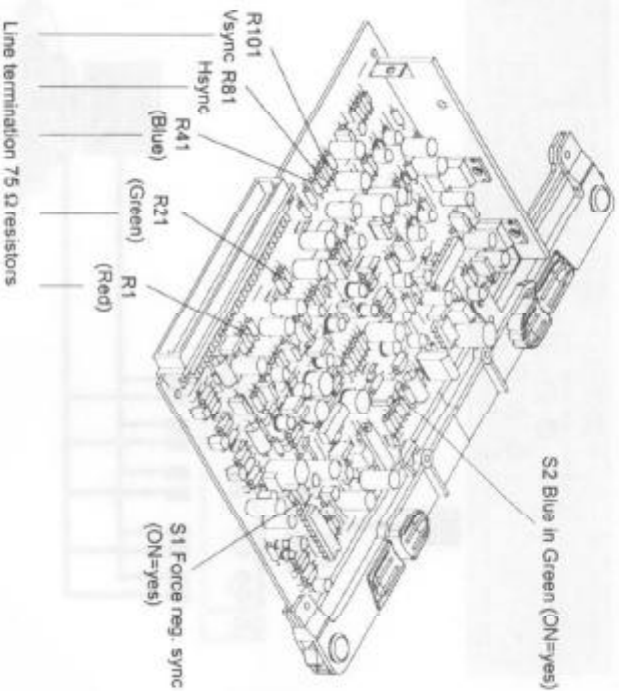
Switch in the OFF position : the sync polarity will be automatically detected.



## CONNECTIONS

Resistors and switches on board level

When changing a switch position or removing a resistor, turn off the projector and unplugging the power cord from the wall outlet.



Procedure :

- power down the projector and unplug the projector power cord.
- open the top cover.
- pull out the RGB input auto syn tracking module from the mother board.
- unsolder and remove the resistors or switch over the switches.

*75 Ω termination switches.*

In case of chaining the projectors, the 75 ohm line termination resistors must be on board when the projector is the last unit in the chain.

Resistors on board : 75 Ω terminated

Resistors removed : not terminated

In case of stand alone projectors, do not remove the resistors.

## CONNECTIONS

Line termination : the RGB analog inputs are factory line terminated.

Stand alone projector : inputs must be line terminated

Last projector in a loop through configuration : inputs must be line terminated.

In case of chaining the projectors with T-BVC connectors (BARCO order number : 31 3668) remove the line termination jumpers on the RGB analog input module.

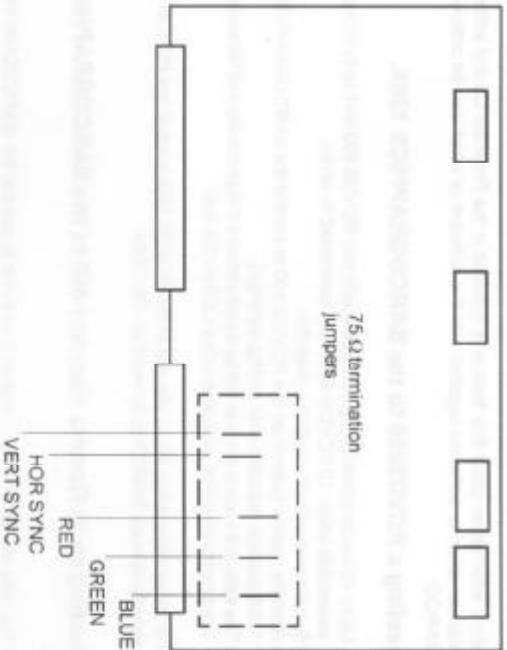
### Warning

When removing the jumpers, turn off the projector and unplug the power cord from the wall outlet.

### Procedure :

- power down the projector and unplug the projector power cord
- open the top cover.
- Pull out the RGB analog input module from the mother board.
- Unsolder and remove the jumpers.
- Jumpers on the module : 75 ohm terminated
- Jumpers removed : not terminated

Location of jumpers on the module.



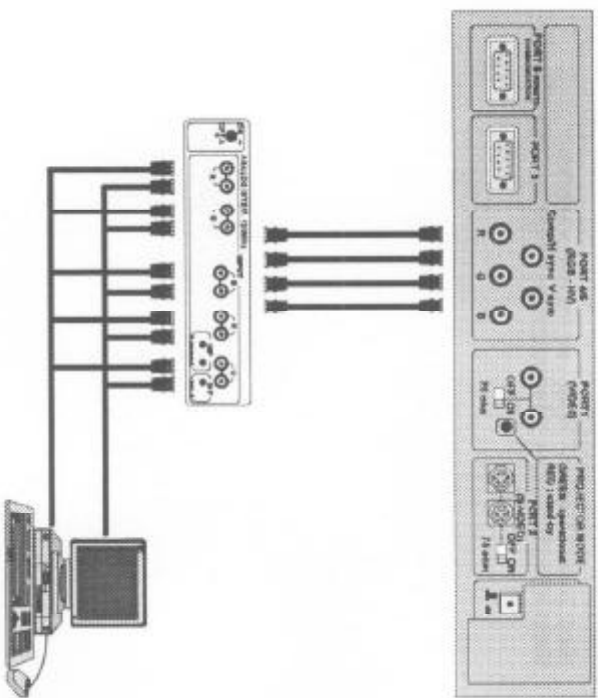
## CONNECTIONS

### Connecting a RGB analog source to port 4/5.

RGB analog input terminals with separate H and V sync inputs, with composite sync inputs or with sync signals on green.

Always use an interface when a computer and local monitor have to be connected to the projector. Interfaces to be applied :

- universal analog interface. Order number : 98 26100.
- RGB 120 MHz analog interface. Order number : 98 26570.



### RGsB input selection:

(RGsB : R, G, B signals with sync on green)

Press digit button 4 on the RCU.

### RGBS input selection :

(RGBS : R, G, B and separate sync; H- and V- sync or comp. sync)

Press digit button 5 on the RCU.



**INSTALLATION ADJUSTMENT MODE**

- Installation adjustment mode
- Overview flowchart installation adjustment mode
- Access to optical controls
- Installation adjustment procedure
- Optical lens focusing
- Raster centering
- CRT angle correction
- Diagonal focusing

**Connecting a computer (e.g. an IBM PC or compatible, Apple Macintosh or Workstation) to the BARCOGRAPHICS 1208.**

The BARCOGRAPHICS 1208 projector has a RS232 port that allows it to communicate with a computer. (RS422, 'Macintosh', can be directly connected to the projector's port without any problem if you respect RS232 distances and baudrates.)

Applications :  
Two main applications : remote control and data communications.

- a) remote control :
  - easy adjustment of projector via IBM PC (or compatible) or MAC connection.
  - allow storage of multiple projector configurations and set ups.
  - wide range of control possibilities.
  - address range from 0 to 255.

- b) data communications :
  - sending adjustment data to the projector or copying the adjustment data from the projector to a hard memory device.

When chaining projectors, slave the output on the front side through to the input of the next projector.

More information about this feature is included in the Projector Control software manual which is delivered together with the software or which can be ordered at BARCO.

**Connecting a RCVDS800 to the BARCOGRAPHICS 1208.**

- Up to 10 inputs immediately accessible with one RCVDS 800 and up to 90 inputs accessible when 10 RCVDS 800s are connected in series.
- Serial communication with the projector.
- Remote control buttons on the RCVDS 800 to control the BARCOGRAPHICS 1208 (source selection and analog settings)
- The selected source number will be displayed on a 2 digit display and the selected input modules will be indicated with a LED on the rear.

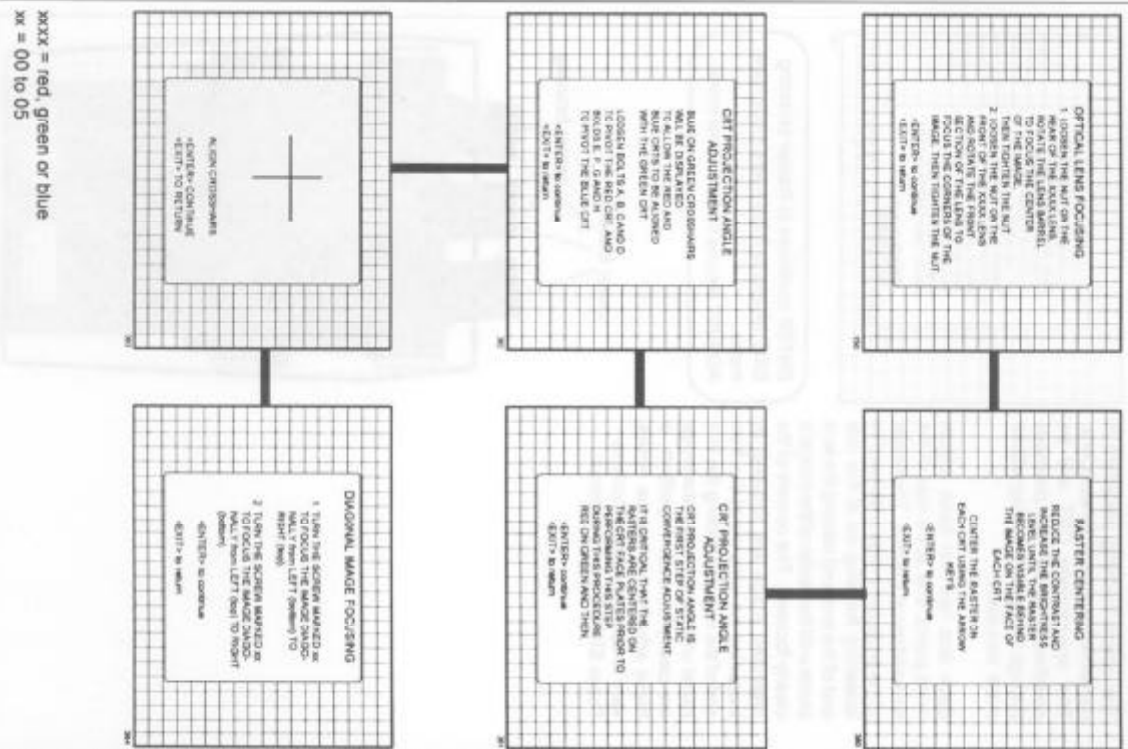
For more information about the use of the RCVDS 800, consult the RCVDS 800 owner's manual, BARCO order number : 59 75604.

**Connecting an IR Remote Receiver 800 to the BARCOGRAPHICS 1208.**

This infra-red receiver unit makes it possible to control the BARCOGRAPHICS 1208 from another room. There is a communication line cable between the IR receiver and the projector or the RCVDS 800. The control information from the RCVDS800 can now be sent to the IR Remote Receiver 800. The IR Remote Receiver 800 displays the selected source on a 7-segment display.  
Order number : 98 27415.

## INSTALLATION ADJUSTMENT MODE

### Overview flowchart Installation adjustment mode.



xxxx = red, green or blue  
x = 00 to 05

## INSTALLATION ADJUSTMENT MODE

### Installation adjustment mode.

It will be necessary to perform several mechanical adjustments while in the Installation Adjustment Mode. Open the cabinet (see gaining access to controls) to align the mechanical parts.

To start up the Adjustment mode, consult the owner's manual. Start up of the adjustment mode. Use the arrow keys to highlight **INSTALLATION** on the screen menu and then press **ENTER**.



**ENTER** continues to Optical Focusing.  
**EXIT** returns to operational mode.  
**ADJUST** returns to operational mode.

When entering the installation mode, the projector will automatically switch to the internal pattern on 15 kHz/50 Hz without creating a new adjustment block.





## INSTALLATION ADJUSTMENT MODE

### Raster centering

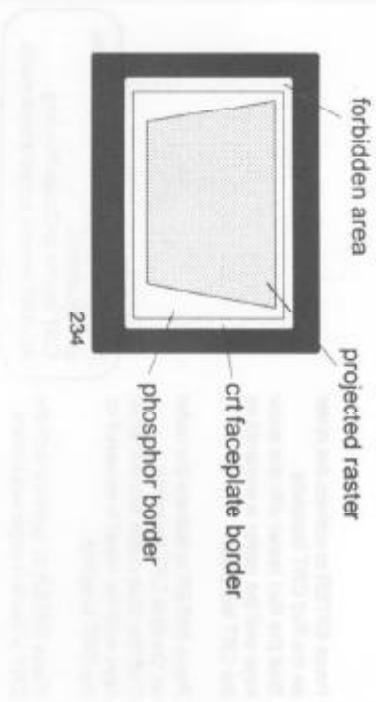
The raster must be centered on the CRT screen surface of each tube, therefore, it is necessary to look into the lenses.

**Caution :** To avoid eye discomfort while performing these adjustments, reduce the contrast and gradually increase the brightness level until the raster becomes visible behind the image.

**Warning :** In order to ensure maximum CRT longevity and to avoid CRT damage, do not shift the raster outside the phosphor area of the CRT.

Press **ENTER** to display the raster on the green CRT.

Look into the green lens and shift the raster with the arrow keys until it is centered in the middle of the CRT faceplate.



## INSTALLATION ADJUSTMENT MODE

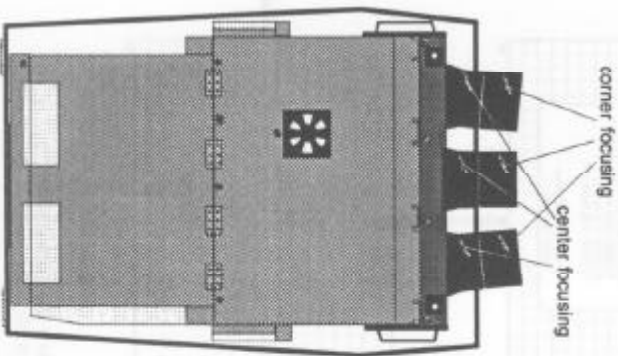
### Optical Lens Focusing.

The optical focusing procedure is performed separately for each lens. The appropriate CRT will be switched on as the user proceeds through the optical focusing adjustment sequence.

Each lens has two focus adjustment points, one at the rear of the lens and one at the front. The center of the projected image is focused by loosening the wing nut at the rear end of the lens and rotating the lens barrel until the center of the image is clearly focused. The corners of the projected image are focused by loosening the wing nut at the front end of the lens and rotating the lens barrel until the corners of the image are clearly focused. Repetition of these adjustments may be necessary to optimize optical focusing. Press **ENTER** key to continue.



**ENTER** continues to Raster centering  
**EXIT** returns to Adjustment mode main menu.  
**ADJUST** returns to operational mode.



## INSTALLATION ADJUSTMENT MODE

### CRT projection angle adjustment

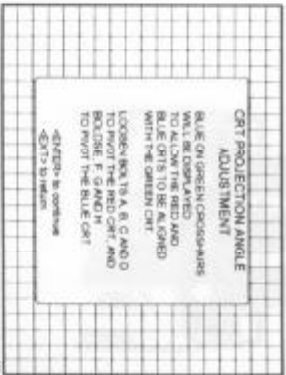
The projection angle of the red and blue CRTs is dependent on the desired size of the projected image. If the centers of green, blue and red do not coincide, the CRT projection angle must be adjusted. *NOTE: never try to correct this misalignment with the shift correction or the static convergence controls. These controls may only be applied to correct small errors which cannot be corrected by the CRT angle adjustment.*

Be sure that the rasters are centered on the CRT face.

Press **ENTER** to start the CRT angle adjustment procedure. A crosshairs (green and red) will be displayed on the screen.



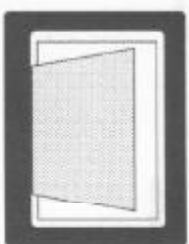
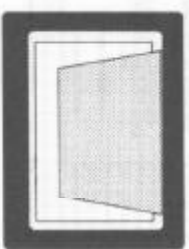
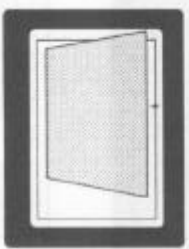
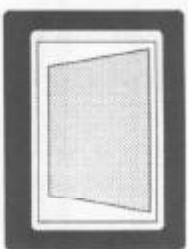
**ENTER** continues with the second part of the CRT projection angle adjustment.  
**EXIT** returns to Raster shift adjustment



**ENTER** continues to the crosshairs alignment.  
**EXIT** returns to raster shift adjustment  
**ADJUST** returns to operational mode.

67 INSTALLATION ADJUSTMENT MODE

## INSTALLATION ADJUSTMENT MODE



Press **ENTER** to activate the raster on the Red CRT faceplate.  
Shift the Red raster with the arrow keys until the raster is centered on the CRT faceplate.

Press **ENTER** to activate the raster on the Blue CRT faceplate.  
Shift the Blue raster with the arrow keys until the raster is centered on the CRT faceplate.

Press **ENTER** to continue with the CRT projection angle adjustment

**ENTER** continues to CRT Projection angle Adjustment.  
**EXIT** returns to Optical focusing  
**ADJUST** returns to operational mode.

68 INSTALLATION ADJUSTMENT MODE

## INSTALLATION ADJUSTMENT MODE

### Diagonal image focusing

With the diagonal image focusing corrections, it is possible to obtain uniform focus for the total projected image.

These corrections must be repeated for each color. The Diagonal image focusing is repeated 3 times, first for green then for red and then for blue.

First, be sure that the CRT projection angle is correctly adjusted, otherwise it's not possible to obtain proper overall focus of the image.

xx = screw number indication on screen.

Adjustment procedure :

First, To perform the diagonal image focusing, be sure the lenses are correctly focused (see chapter 'Optical lens focusing').

Proceed now to diagonal image focusing.

This adjustment procedure is performed separately for each picture tube.

The diagonal image focusing menu is repeated 3 times, first for green, then for red and then for blue.

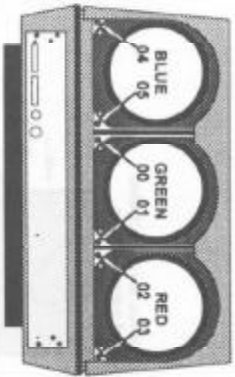
Example : diagonal focusing the green image.

Equalize diagonally the focus from left (bottom) to right (top) by turning screw 00 of the projected color.

Equalize now diagonally the focus from left (top) to right (bottom) by turning screw 01 of the projected color.

Repeat the same procedure for the red and blue image using the corresponding screws.

To optimize the image focusing, repeat the optical lens focusing



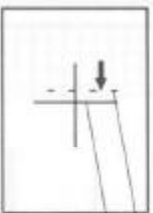
	left	right
GREEN	00	01
RED	02	03
BLUE	04	05

## INSTALLATION ADJUSTMENT MODE

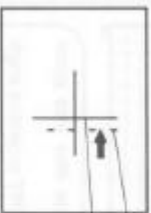
Loosen bolts E, F, G and H to pivot the blue CRT until the center of the Blue image and the center of the Green image coincide. When the angle of the blue CRT is corrected, tighten the four bolts.



ENTER continues to the diagonal focusing menu.  
EXIT returns to the CRT projection angle adjustment.



blue crosshair  
green crosshair  
move the blue CRT  
to the outside, away  
from the green CRT



blue crosshair  
green crosshair  
move the blue CRT  
towards the green  
CRT

**MESSAGES, WARNINGS AND FAILURES**

For more information on messages and failures, see the following sections:

- Messages and Warnings: See the Messages and Warnings section in the user manual.
- Failures: See the Failures section in the user manual.

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**INSTALLATION ADJUSTMENT MODE**

When the printer is in Installation Adjustment Mode, the LCD displays the following information:

- Installation Adjustment Mode: The LCD displays the text "INSTALLATION ADJUSTMENT MODE".
- Adjustment Options: The LCD displays a list of adjustment options, such as "Adjust Paper Size", "Adjust Paper Weight", and "Adjust Paper Color".

When the printer is in Installation Adjustment Mode, the LCD displays the following information:

- Installation Adjustment Mode: The LCD displays the text "INSTALLATION ADJUSTMENT MODE".
- Adjustment Options: The LCD displays a list of adjustment options, such as "Adjust Paper Size", "Adjust Paper Weight", and "Adjust Paper Color".

**MESSAGES, WARNINGS AND FAILURES**

**WARNING :**  
source not available

The input is a valid input but the source is not connected to the input terminals or the input source is switched off.

**WARNING :**  
Invalid key entry

When a wrong key is pressed on the RCU.

**WARNING :**  
Invalid code entry

Message when the entered password is wrong

**WARNING :**  
end of adjustment range

End of adjustment range.

**WARNING :**  
Input no longer available

Message will be displayed when the input source is no longer available. The following message then appears:  
*check input signal or select new source'*

check input signal or select new source

Message will be displayed after the message 'input no longer available'. It asks to check the connectors between the source and the projector or to check if the source is switched on.

**WARNING :**  
Input selector not available

It warns you to check the power connection or the power status of the RCVDS800.  
Next message will appear immediately on the screen : go to stand-by'

**MESSAGES, WARNINGS AND FAILURES**

**MESSAGES, WARNINGS AND FAILURES**

**SOURCE01**  
Fh= 15,6 KHz  
Fv= 050 Hz

When selecting a new source, information about this source will be displayed on the screen. Source number, horizontal and vertical frequencies of the displayed source.

**SOURCE 01**

Announcement of the selected source.

**enter password**  
XXXXX

Message to enter your password. Password contains 4 digits

**text on**

These messages will be displayed on the screen when pushing the TEXT key.

**text off**

Text ON : the 'bar scale indicator' will be enabled during the change of an analog control in the 'operational mode' + all warnings and failures will be displayed.

**PROJECTOR ADDRESS : 003**

Text OFF : the 'bar scale indicator' will be disabled during the change of an analog control in the 'operational mode' + all warnings and failures will not be displayed.

**WARNING :**  
Input not available

Indication of the projector address when activating the 'ADDRESS' button on the RCU with a pencil or other small object.

When using the projector with the RCVDS 800, this warning will be displayed when selecting an input slot of an RCVDS where the input board is missing.

**MESSAGES, WARNINGS AND FAILURES**

**MESSAGES, WARNINGS AND FAILURES**

**FAILURE**  
RMI commu-  
nication  
error

Hardware failure. Call a qualified service technician.

**FAILURE**  
IRIS commu-  
nication  
error

Communication error between IRIS 800 and the projector. Call a qualified service technician.

**WAIT**  
starting  
up  
IRIS

Message during the start up of the IRIS 800. Message will disappear when the IRIS 800 is ready to accept commands.

**MESSAGES, WARNINGS AND FAILURES**

**WARNING :**  
go to  
stand by

Projector will switch to stand-by when the RCVDS 800 is no longer available.

**WARNING :**  
Invalid  
frequency  
input

The entered frequency or applied frequency of the source is out of the projector's range.

**WARNING :**  
default  
settings  
loaded in  
the EPROM

Adjustment settings are lost. Re-load using Control 800 Software via PC or MAC, or re-adjust image.

table is  
deleted

Message to inform that selected table is deleted. This message will be followed by 'confirm message', on which the user has to answer.

**FAILURE**  
Invalid  
RMI soft  
version

Wrong software version in your projector. Call for technical support.

**FAILURE**  
I2C error  
addr. : 7FH3

Hardware failure. Call a qualified service technician for repair.

**FAILURE**  
short  
circuit on  
I2C bus

Hardware failure. Call a qualified service technician for repair.

**FAILURE**  
RCVDS com-  
munication  
error

Serial communication error between RCVDS800 and projector.

## APPENDIX A : BARCO CEILING MOUNT SUPPORT

### BARCO ceiling mount support

This appendix gives only an overview of the contents of the installation guidelines and also some overview drawings.  
The total installation guidelines for the BARCO ceiling mounting support can be ordered by BARCO. BARCO order number : 59 75593.

#### 1. Contents of the installation guidelines.

1. Mounting instructions for the upper support to the ceiling.
  - a. Position of the upper support on the ceiling.
  - b. Mounting of the 4 screwed rods on the upper support.
2. Projector placement on lower support.
  - a. Projector placement on support.
  - b. Location of controls for projector-position correction.
3. Mounting instructions of the cord to lift up the projector.
  - a. Mounting the cord support on the upper support.
  - b. Cord insertion between the upper and lower support.
  - c. Cord fixation
4. Lifting up and fixing the lower support (with projector) on the screwed rods.
5. Alignment of the projector-support assembly
  - a. Projector water-level adjustment.
  - b. Adjustment 'projector axis perpendicular' on the screen surface.
  - c. Projector movement for- or backward.

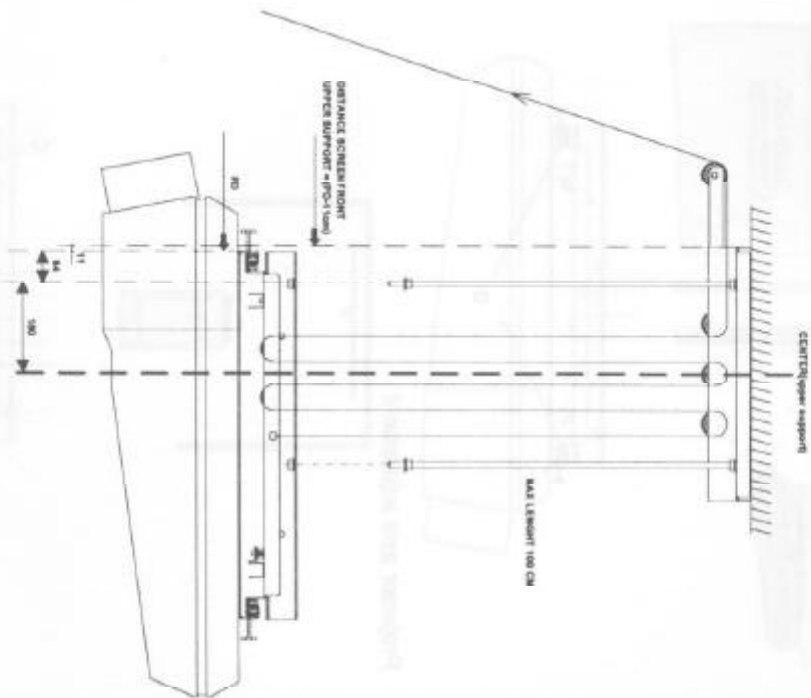


## MESSAGES, WARNINGS AND FAILURES

### MESSAGES, WARNINGS AND FAILURES

**APPENDIX A : BARCO CEILING MOUNT SUPPORT**

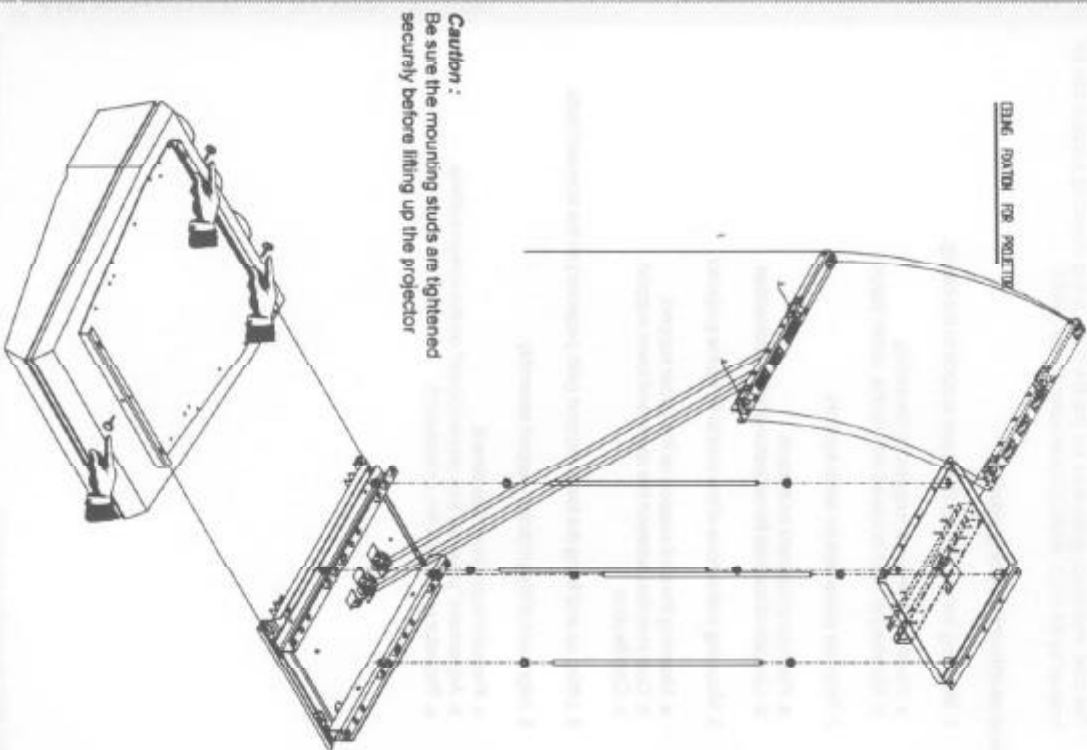
III. Overview drawing of the total system.



**APPENDIX A : BARCO CEILING MOUNT SUPPORT**

**APPENDIX A : BARCO CEILING MOUNT SUPPORT**

II. Exploded view of BARCO ceiling mount support.

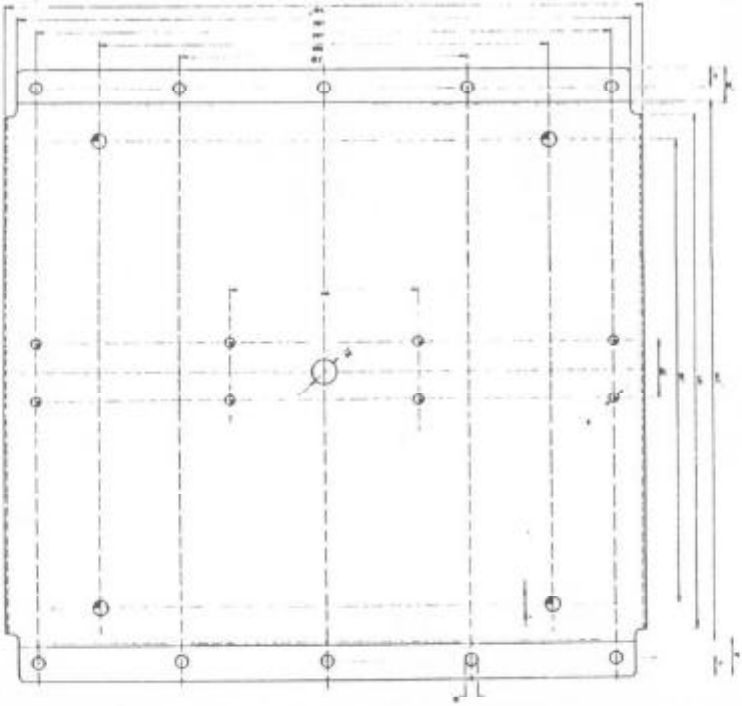


**APPENDIX A : BARCO CEILING MOUNT SUPPORT**



APPENDIX A : BARCO CEILING MOUNT SUPPORT

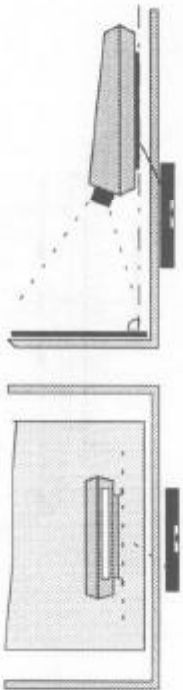
IV. Lay-out upper support



APPENDIX A : BARCO CEILING MOUNT SUPPORT

IV. Projector-position corrections

Water-level adjustment



Projector axis adjustment

