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PROJECTOR OWNER'S MANUAL

Barco

VISION 708

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R9002320

OWNER'S MANUAL



BARCO PROJECTION SYSTEMS

BARCO VISION
708

R9002320

OWNER'S MANUAL

Due to constant research, the information in this manual is subject to change without notice.

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BARCO nv/Projection Systems

Noordlaan 5
B-8520 Kuurne
Belgium

Tel : +32/56/368211

Fax : +32/56/351651

E-mail : sales.bps@barco.com

Visite Barco at the web : <http://www.barco.com>

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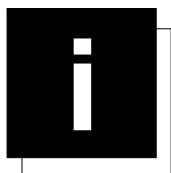


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1

SAFETY INSTRUCTIONS

Notice on Safety

This equipment is built in accordance with the requirements of the international safety standards EN60950, UL 1950 and CSA C22.2 No.950, 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 this equipment please read this manual thoroughly, and retain it for future reference.

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

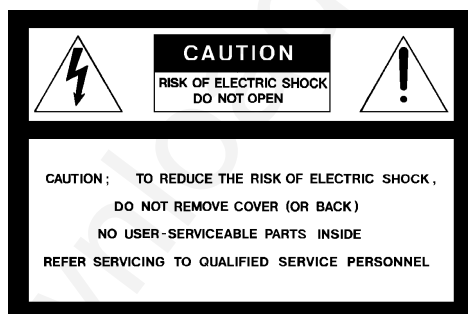
OWNER'S RECORD

The part number and serial number are located at the back side 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:



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 EQUIPMENT TO RAIN OR MOISTURE

FEDERAL COMMUNICATION COMMISSION (FCC STATEMENT)

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

Note :

The use of shielded cables is required to comply within the limits of Part 15 of FCC rules and EN55022.

- * 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 equipment 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. This projector may be connected to an IT-power system.

Operating AC power voltage of the projector:

BARCOVISION 708
Art.No. R9002320 (230V AC)

Consult your dealer to switch over from 230Vac to 120 Vac or from 120Vac to 230 Vac.

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.

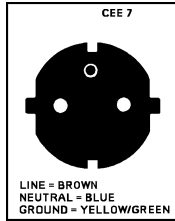
WARNING FOR THE CUSTOMERS: THIS APPARATUS MUST BE GROUNDED (EARTHED) via the supplied 3 conductor AC power cable.

(If the supplied power cable is not the correct one, consult your dealer.)

Mains lead (Power cord) with CEE 7 plug:

The wires of the mains lead are colored in accordance with the following code.

Green and yellow: earth (safety earth)
Blue: neutral
Brown: 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. Lightning - 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 equipment on an unstable cart, stand, or table. The product may fall, causing serious damage to it.

2. Do not use this equipment near water.

3. Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product 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.

The projector should not be placed in a built-in installation or enclosure unless proper ventilation is provided.

4. Do not block the projector cooling fans or free air movement under and around the projector. Loose papers or other objects may not be nearer to the projector than 4" on any side.

On servicing

Do not attempt to service this product 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:

- When the power cord or plug is damaged or frayed.
- If liquid has been spilled into the equipment.
- If the product has been exposed to rain or water.
- 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 product 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 stains may be removed with a cloth lightly dampened with mild detergent solution. Never use strong solvents, such as thinner or benzene, 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 equipment. 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.

Diagram of the back panel of the Sony CCD-IR2000 camcorder. The panel features several connectors and controls. The 8-pin composite video connector is labeled 4. The 3-pin S-video connector is labeled 7. The 4-pin RGB connector is labeled 6. Other labels on the panel include REGION, RECORD/OUT, IR, REMOTE, R, G, B, S, VIDEO, and S-VIDEO.

-
- A line drawing of the rear panel of the device. It features a long horizontal slot (1) on the left, a square port (2) in the center, a rectangular port (3) to the right of the square port, and a circular port (4) on the far right. There are also two small circular ports on the left and right edges of the panel.

- ☐ HOLD DOWN HD
- ☐ COINC
- ☐ SF
- ☐ HOLD DOWN ENT
- ☒ STANDBY
- ☐ -17V
- ☐ +HTHD
- ☐ +CONV
- ☐ +210V
- ☐ -9V
- ☐ +30V
- ☐ +9V
- ☐ +17V
- ☐ -CONV

- 2-1

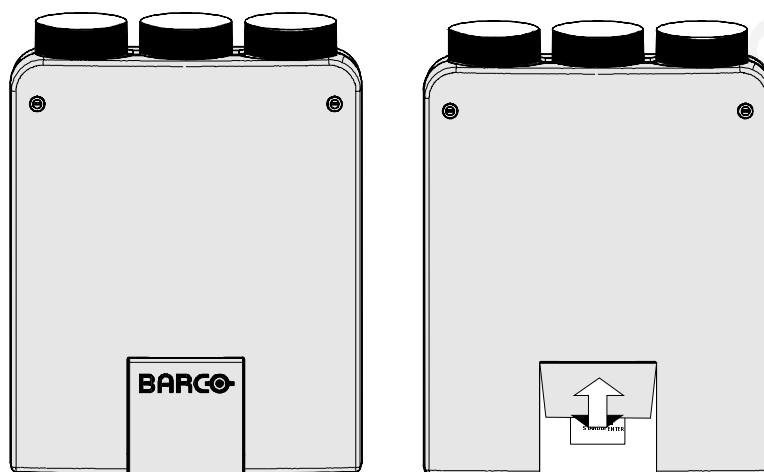
Control panel terminology

a. The local keypad

Gaining access

The local keypad is covered by a door on which the projector logo is screened.

To open this door, push as indicated on next drawing and turn it to the front side of the projector.



b. RCU control panel terminology

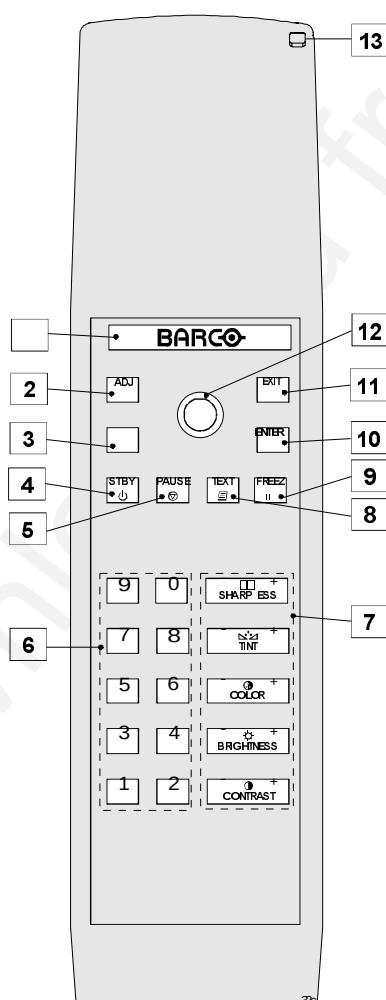
This remote control includes a battery powered infrared (IR) transmitter that allows the user to control the projector remotely. This remote control is used for source selection, control, adaptation and set-up. It includes automatic storing of :

- picture controls (Brightness, Sharpness,...)
- picture geometry adjustments
- convergence adjustments

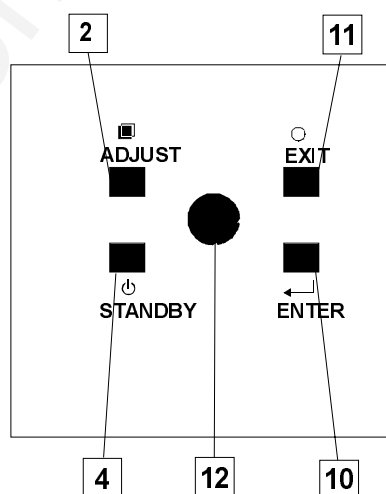
Other functions of the remote control are:

- switching between standby and operational modes
- switching to "pause" (blanked picture, full power for immediate restarting)
- direct access to all connected sources
- variable adjustment speed : when pushing continuously on the arrow keys or the picture keys, the adjustment will be executed in an accelerated fashion.

RCU



Local keypad



- stand-by
- pause/park
- sharpness
- tint
- color
- brightness
- contrast

- 1** **BARCO key** : no function in this projector.
- 2** **ADJ.** : adjust key, to enter or exit the adjustment mode.
- 3** **Address key** (recessed key), to enter the address of the projector (between 0 and 9). Press the address key, followed by pressing one digit button between 0 and 9.
- 4** **STBY** : stand by button :
 - to initiate remote power up operation
 - to stop projection without main power off.
- 5** **Pause** :to blank the image, press PAUSE. The image disappears but full power is retained for immediate restarting.
- 6** **Digit buttons** : direct input selection.
- 7** **Picture controls** : use these buttons to obtain the desired level (see also 'Controlling') for each picture function.
- 8** **TEXT** : when adjusting one of the image controls during a meeting, the displayed bar scale can be removed by pressing 'TEXT' key first. To re-display the bar scale on the screen, press 'TEXT' key again. 'TEXT' key is only active in operational mode. When 'TEXT' is off, no warning message will be displayed.
- 9** **FREEZ** : Press to freeze the projected image (only with built in line doubler (option).
- 10** **ENTER** : to start up the adjustment mode or to confirm an adjustment or selection in the adjustment mode.
- 11** **EXIT** : to leave the adjustment mode or to scroll upwards when in the adjustment mode.
- 12** **Control disc** : to make menu selections when in the adjustment mode. Also allows to increment or decrement an adjustment in the adjustment mode.
 - control disc up = up arrow in the menus
 - control disc down = down arrow in the menus
 - control disc to the right = arrow to the right on the menus
 - control disc to the left = arrow to the left on the menus
- 13** **RC operating indication** : lights up when a button on the remote control is pressed. (This is a visual indicator to check the operation of the remote control)

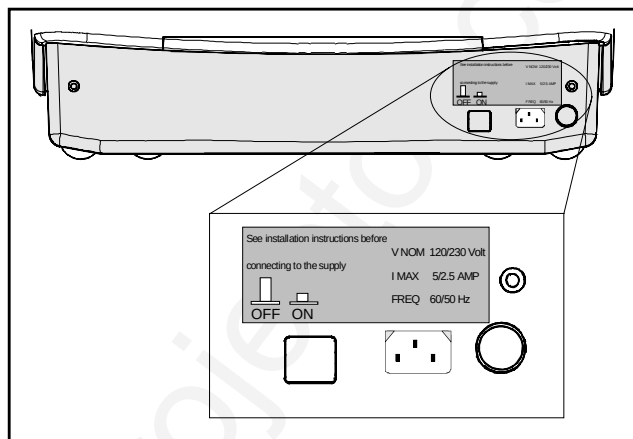
Downloaded from Projector.com

3

CONNECTIONS

Power (mains) cord connection

Use the supplied power cord to connect your projector to the wall outlet. Plug the female power connector into the male connector at the front of the projector.



Switching on/off

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

Pressed : ON

Not pressed : OFF

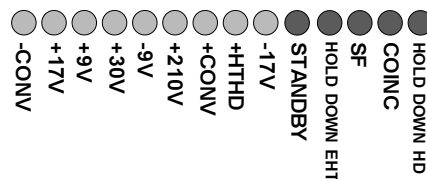
The projector can start now in the 'operational mode' (image displayed) or in the 'stand by mode', depending on the software setup.

Stand by indication lamp :

no light up : projector in operational mode

red : projector is in stand by.

Leds on the front plate of the projector

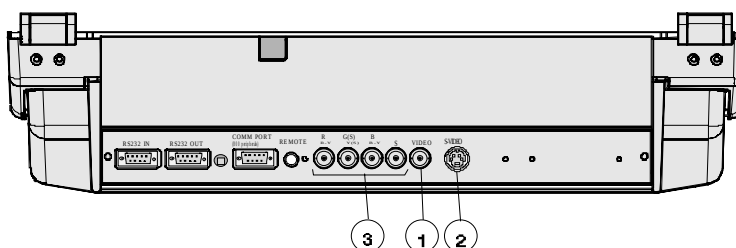


Signal input connection to the projector :

- Composite Video (*)
- S-Video (*)
- RGBS or RGsB (*)
- RGB3S or RG3sB
- (R-Y)Y(B-Y)S or (R-Y)Ys(B-Y) [component input] (**)
- (R-Y)Y(B-Y)3S or (R-Y)Y3s(B-Y) [component input] (**)

(*) If the line double feature is built in, this feature is available via a software on/off toggle.

(**) If the line double feature is built in, this feature is available for component video signals on standard frequency via software on/off toggle.



Source No	Projector input	Press digit button
1	Comp. Video	1
2	S-Video* 2	
3	RGBS or RGsB**	3
3	RGB3S or RG3sB***	4
3	(R-Y)Y(B-Y)S or (R-Y)Ys(B-Y)****	5
3	(R-Y)Y(B-Y)3S or (R-Y)Y3s(B-Y)*****	6

- * Input signal Y/C (luma/chroma)
- ** Input signal : R, G and B with composite sync on G or separate composite sync
- *** Input signal : R, G and B with Tri level sync on G or separate Tri level sync.
- **** Input signal : R-Y, Y and B-Y with composite sync on Y or separate composite sync
- ***** Input signal : R-Y, Y and B-Y with Tri level sync on Y or separate Tri level sync.

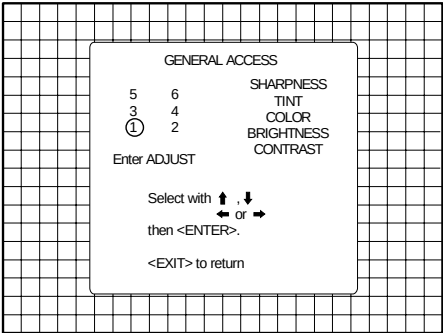
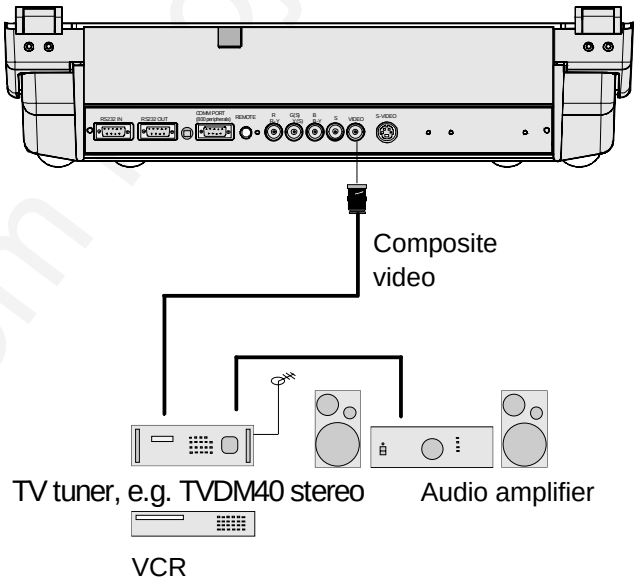
Connecting a Composite Video source.

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

If a line doubler is built in :
the default position of this line doubler is ON (active), the video input signal will be displayed as a non interlaced image (= improved image stability).
To enable or to disable this line doubler function, enter the adjustment mode and change the position of the ON/OFF toggle switch (see Picture tuning in chapter 'Guided' adjustment mode or 'Random access' adjustment mode).

Video input selection :

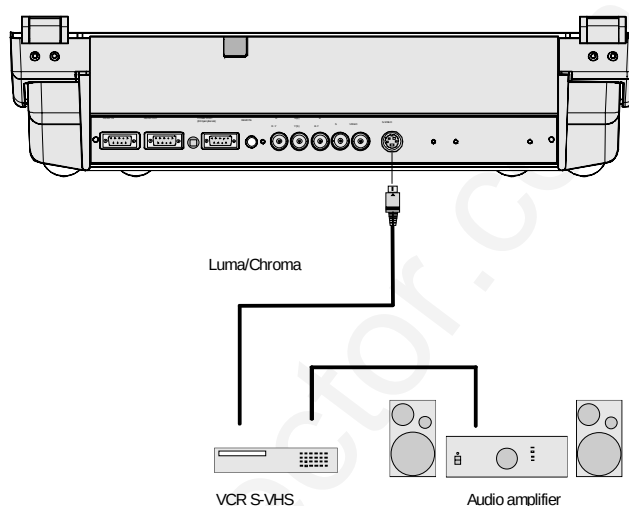
- a. with the RCU : press digit button 1 or
 - b. with the local keypad.
- (for access to the local keypad, see 'Local keypad' in chapter 'Location and function of controls'.)
- press **ADJUST** key, the General access menu is displayed on the screen.
 - use the control disk to highlight 1.
 - press **ENTER** to select the highlighted source.



Connecting a S-Video source to port 2.

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

*If a line doubler is built in :
the default position of this line doubler is ON (active), the video input signal will be displayed as a non interlaced image (= improved image stability).
To enable or to disable this line doubler function, enter the adjustment mode and change the position of the ON/OFF toggle switch (see Picture tuning in chapter 'Guided' adjustment mode or 'Random access' adjustment mode).*



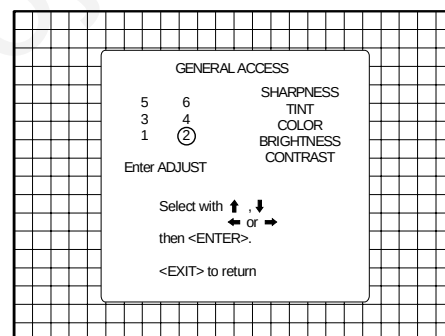
Input selection

a. with the RCU : press digit button 2 or

b. with the local keypad.

(for access to the local keypad, see Local keypad in chapter Location and function of controls.)

- press **ADJUST** key, the General access menu is displayed on the screen.
- use the control disk to highlight 2.
- press **ENTER** to select the highlighted source.



Connecting a RGB Analog source with composite sync.

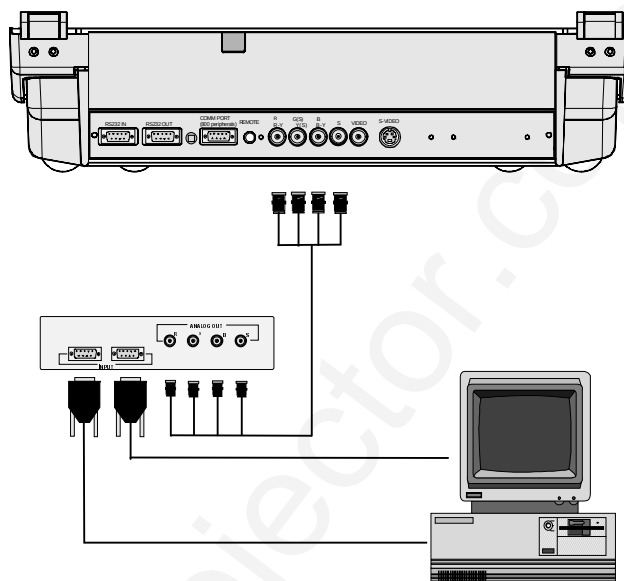
RGB analog input terminals with composite sync input or with sync on green. The projector detects automatically where the sync signal is located.

Always use an interface when a computer and local monitor have to be connected to the projector. Examples of interfaces which can be applied :

Universal analog interface	R9826100
RGB 120 MHz Analog Interface	R9826570 (230V)
Multifunctional Analog Interface Kit (MAGIK)	R9828120 (230V)
VGA interface	R9828129 (120V)
	R9828070 (230V)
	R9828079 (120V)
MAC interface	R9828050 (230V)
	R9828059 (120V)

*If a line doubler is built in :
the default position of this line doubler is ON (active), the video input signal will be displayed as a non interlaced image (= improved image stability).*

To enable or to disable this line doubler function, enter the adjustment mode and change the position of the ON/OFF toggle switch (see Picture tuning in chapter 'Guided' adjustment mode or 'Random access' adjustment mode).



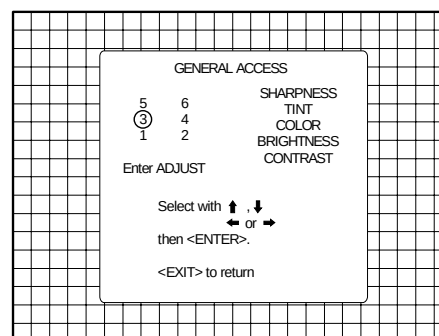
RGBS or RGsB input selection

a. Press digit button 3 on the RCU or

b. With the local keypad :

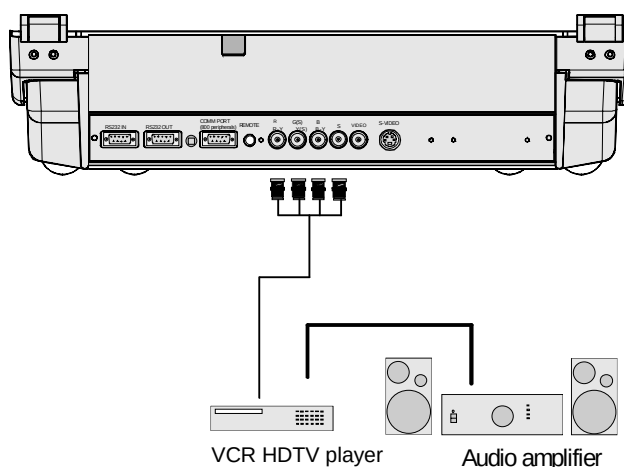
(to gain access to the local keypad, see 'Local keypad' in chapter 'Location and function of controls'.)

- Press **ADJUST** key, the General access menu is displayed on the screen.
- Use the control disk to highlight 3.
- Press **ENTER** to select the highlighted source.



Connecting a RGB Analog source with Tri-level sync.

RGB analog input terminals with Tri level sync input or with Tri-level sync on green. The projector detects automatically where the sync signal is located.



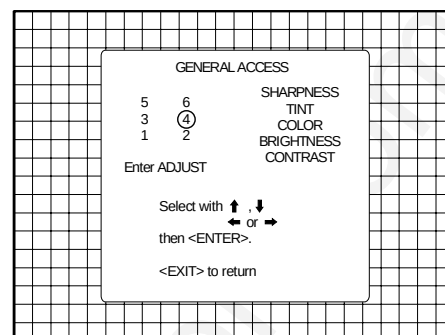
RGB3S or RG3sB input selection

a. Press digit button 4 on the RCU or

b. With the local keypad :

(to gain access to the local keypad, see 'Local keypad' in chapter 'Location and function of controls'.)

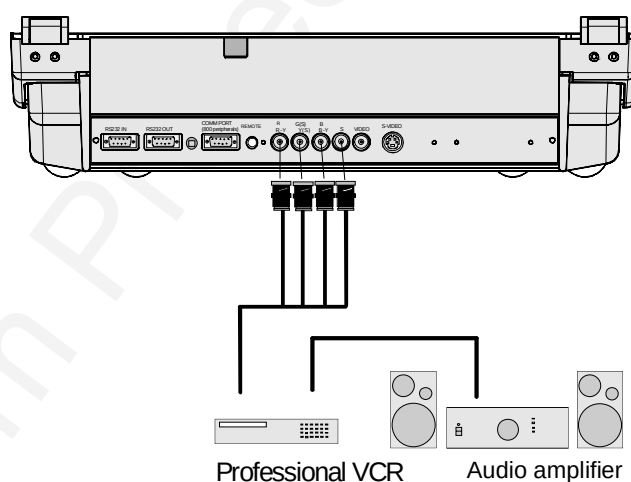
- Press **ADJUST** key, the General access menu is displayed on the screen.
- Use the control disk to highlight 4.
- Press **ENTER** to select the highlighted source.

**Connecting a Component source.**

(R-Y)Y(B-Y) analog input terminals with sync input or with sync on the luminance (Y) input. The projector detects automatically where the sync signal is located.

Line doubling is possible for component video input sources on standard line frequency.

If a line doubler is built in : the default position of this line doubler is ON (active), the component video input signal will be displayed as a non interlaced image (= improved image stability). To enable or to disable this line doubler function, enter the adjustment mode and change the position of the ON/OFF toggle switch (see Picture tuning in chapter 'Guided' adjustment mode or 'Random access' adjustment mode).

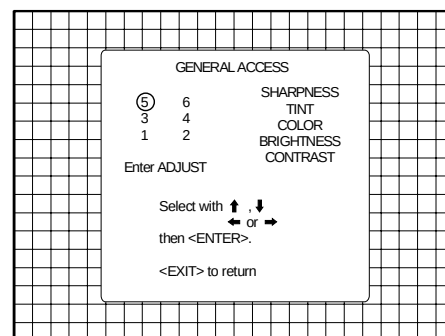
**(R-Y)Y(B-Y)S or(R-Y)Ys(B-Y) input selection**

a. Press digit button 5 on the RCU or

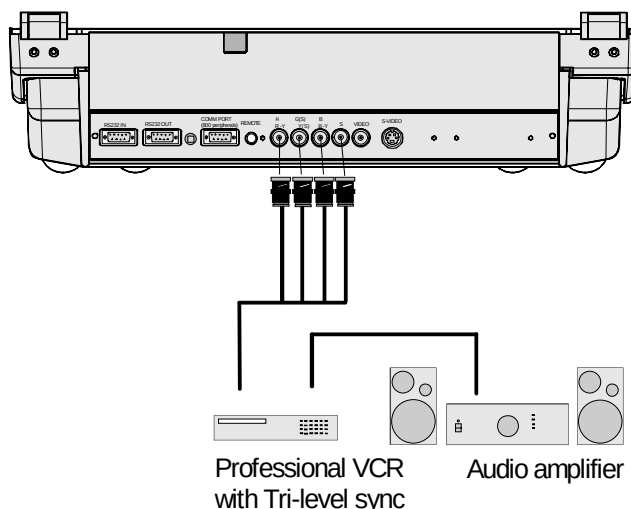
b. With the local keypad :

(to gain access to the local keypad, see 'Local keypad' in chapter 'Location and function of controls'.)

- Press **ADJUST** key, the General access menu is displayed on the screen.
- Use the control disk to highlight 5.
- Press **ENTER** to select the highlighted source.

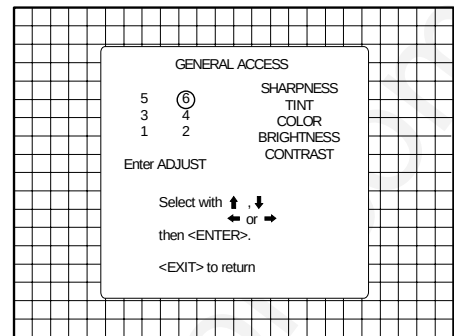
**Connecting a Component source with Tri-level sync.**

(R-Y)Y(B-Y) analog input terminals with Tri-level sync input or with Tri-level sync on the luminance input.



(R-Y)Y(B-Y)3S or (R-Y)Y3s(B-Y) input selection

- a. Press digit button 6 on the RCU or
- b. With the local keypad :
(to gain access to the local keypad, see 'Local keypad' in chapter 'Location and function of controls'.)
 - Press **ADJUST** key, the General access menu is displayed on the screen.
 - Use the control disk to highlight 6.
 - Press **ENTER** to select the highlighted source.



Connecting a computer, e.g. IBM PC (or compatible), Apple Macintosh to the RS232 input of the projector (optional)

The projector can be equipped with a RS232 port that allows it to communicate with a computer.

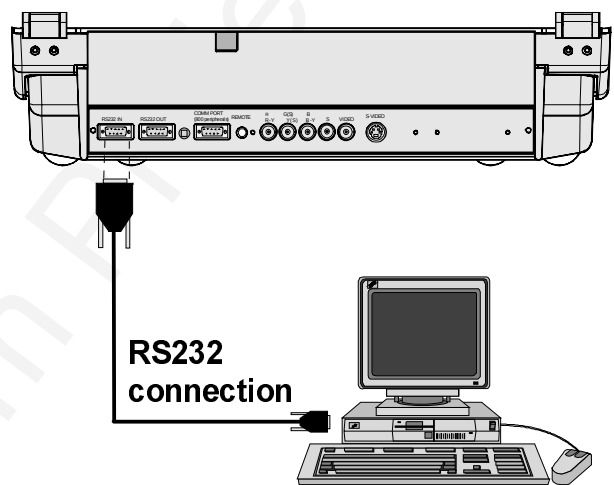
Applications: remote control and data communications.

a) remote control:

- easy adjustment of the 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 data to the projector or copying the data from the projector to a hard memory device.



Peripheral equipment

Connecting a RCVDS 05 switcher to the projector.

- Up to 10 inputs (20 inputs when video and S-video) with the RCVDS 05 switcher and up to 90 inputs when 10 RCVDS switchers are linked via the expansion modules.
- Serial communication with the projector.
- Remote control buttons on the RCVDS to control the projector (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 05, consult the Owner's Manual, order number: R5975765.

Connecting a VS05 switcher to the projector.

The VS05 can switch up to 5 Composite Video sources, 3 S-Video Sources and 1 RGB analog or component Video source to the projector. In addition, the audio signal proper to the source, can be switched to an audio amplifier.

Order number : R9827890.

For more information about the use of the VS05, consult the Owner's Manual, order number: R5975245.

Connecting an IR Remote Receiver to the projector

This infra-red receiver unit makes it possible to control the projector from another room. There is a communication line cable between the IR receiver and the projector or the RCVDS. The infrared control information from the Remote Control Unit is sent to the IR Remote Receiver. The IR Remote Receiver 800 displays the selected source on a 7-segment display.

Order number : R9827515.

4

CONTROLLING

Caution : Do not display a stationary image with full brightness and contrast for longer than 20 min., otherwise you risk damage to the CRT's.

Battery installation in the RCU.

A new battery is delivered inside the plastic bag with the power cord. Before using the RCU, install first the battery.

Remove the battery cover on the backside of the remote control by pushing the indicated handle a little to the bottom of the RCU. Lift up the top side of the cover at the same time (fig. 1).

Insert the new 9 V battery (E-block type, e.g. 6F22S or equivalent) in the lower compartment and connect the battery to the contact plate.

Insert the battery into the lower compartment and put the cover back.

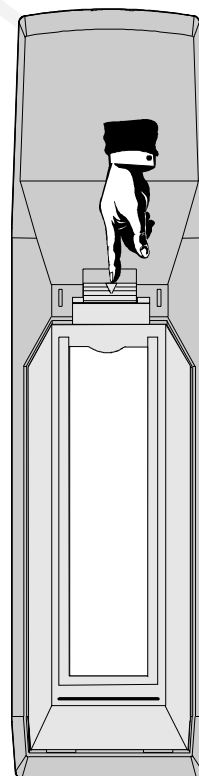
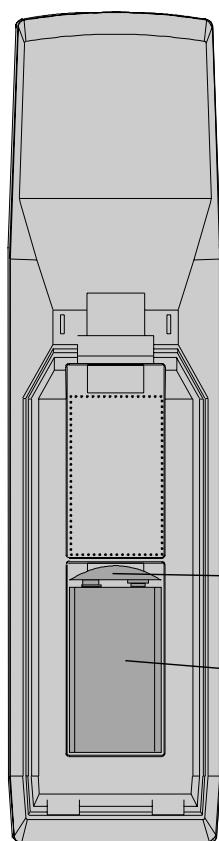
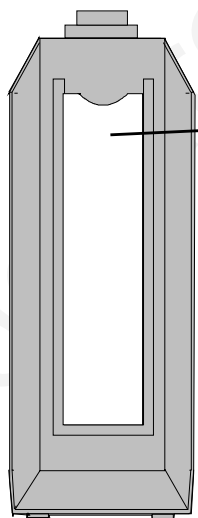


fig.1



Contact
plate

Battery



Insert here,
behind the
plastic cover,
the 'Insert card
for RCU'. You
can cut out this
card on one of
the last pages of
this manual.

fig.2

380x130x10

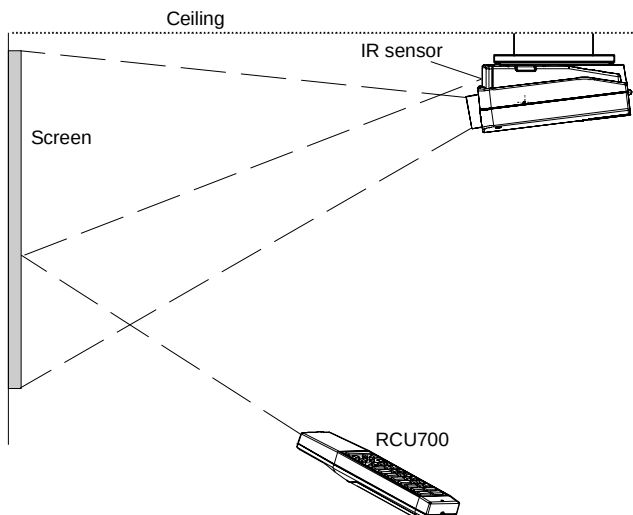
The projector can be controlled with

- The RCU
- The hardwired RCU (cable not included)
- The local keypad.

Controlling the projector with the RCU and the hardwired RCU is the same.

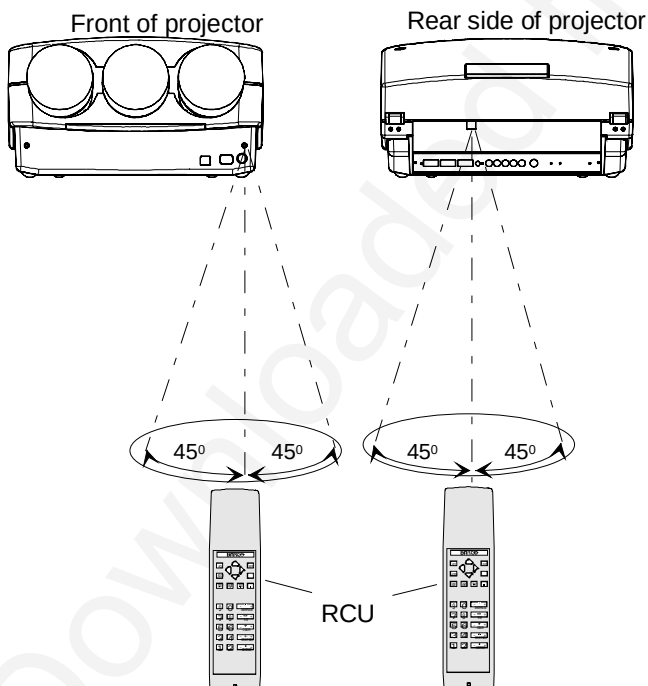
How to use the RCU

- Point the front of the RCU towards the reflective screen surface

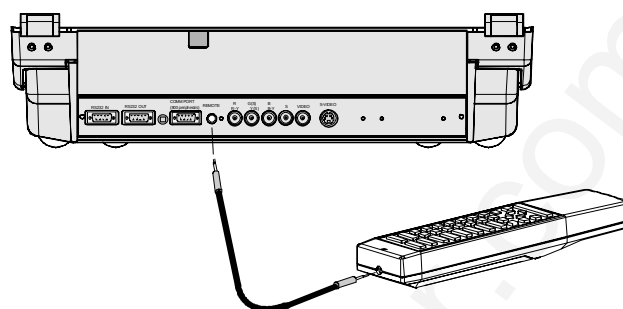


- Point the front of the RCU towards one of the IR sensors in the projector.

When using the wireless remote control, make sure you are within the effective operating distance (30m, 100ft in a straight line). The remote control unit will not function properly if strong light strikes the sensor window or if there are obstacles between the remote control unit and the projector's IR sensor.



- RCU used in a hardwired configuration.



Plug one end of the remote cable in the connector on the bottom of the RCU and the second side in the connector in the rear panel of the projector labelled 'REMOTE'.

Projector address

- Software set up of the projector address.

See 'Change Projector Address' in chapter 'Service mode'. Every projector requires an individual address between 0 and 255 which is set in the Service mode. Only projectors with addresses between 0 and 9 can be controlled with the RCU.

- How to control the projector.

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

- the RCU for addresses between 0 and 9.
- Computer, e.g. IBM PC (or compatible), Apple MAC, etc. for addresses between 0 and 255.

Note : A projector will respond to an RCU set to an address of '0' regardless of what address is set in the projector itself.

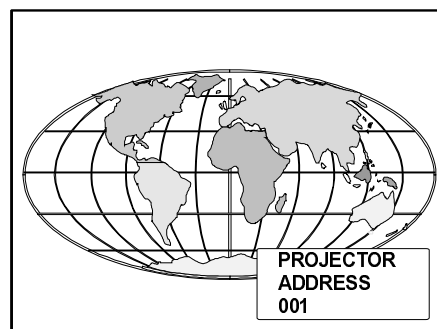
- Using the RCU.

Before using the RCU, it is necessary to enter the projector address into the RCU (only when that address is between 1 and 9). The projector with the corresponding address will listen to that specific RCU.

When address 0, 'zero address' is programmed into the RCU, every projector, without exception will listen to the commands given by this RCU.

How to display a projector address?

Press the ADDRESS key (recessed key on the RCU) with a pencil. The projector's address will be displayed in a 'Text box'. This text box disappears after a few seconds.



To continue using the RCU, it is necessary to enter an address with the digit buttons (address between 0 and 9). For example : if the Address key displays projector address 003, the press "3" digit button on the RCU to set the RCU's address to match the projector's address. Do not press digit 003. This will address the remote to '0' and control all projectors in the room.

How to program an address into the RCU?

Press the ADDRESS key (recessed key on the RCU) with a pencil and enter the address with the digit buttons. That address can be any digit between 0 and 9.

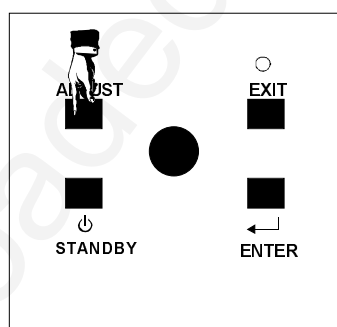
Input selection

Source No	Projector input	Press button
1	Comp. Video	1
2	S-Video	2
3	RGBS or RGsB	3
3	RGB3S or RG3sB	4
3	(R-Y)Y(B-Y)S or (R-Y)Ys(B-Y)	5
3	(R-Y)Y(B-Y)3S or (R-Y)Y3s(B-Y)	6

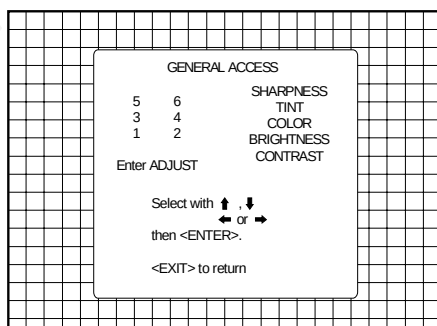
Two possible ways of selecting an input :

a) With the digit buttons on the RCU, it is possible to select one of the four input sources, Video, S-Video, RGsB or RGBS, RG3sB or RGB3S, (R-Y)Ys(B-Y) or (R-Y)Y(B-Y)S, (R-Y)Y3s(B-Y) or (R-Y)Y(B-Y)3S.

b) With the local keypad :
press first the **ADJUST** key to display the *General access* menu.



Use the control disc to highlight the desired source number. Push the control disc up or down to move the cursor up and down, push the

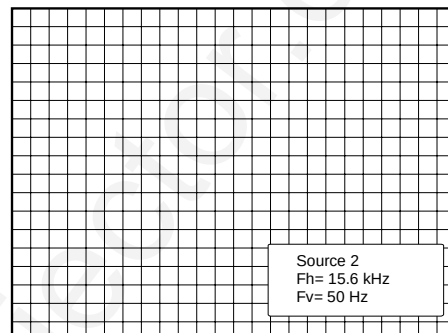


control disc to the left or to the right to move the cursor to the left and to the right.

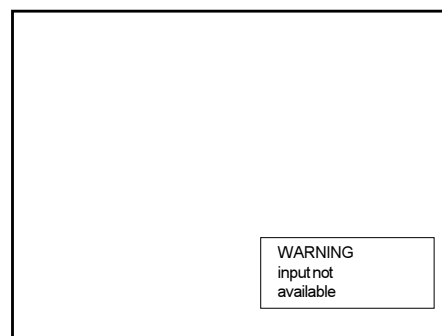
Press **ENTER** to confirm your selection.

When a valid and available source is selected, there will be information displayed on the screen about that source. This information includes :

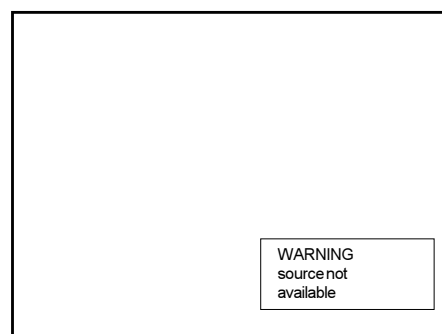
- Source number
- Horizontal frequency
- Vertical frequency



When the entry is a non valid source number, a warning appears on the screen : 'input not available'.



When a valid source number is selected, the projector will display this source or it will wait on the selected source number until the source becomes available. A message 'source not available' will be displayed for a short time.



Picture controls

The picture controls can be adjusted with :

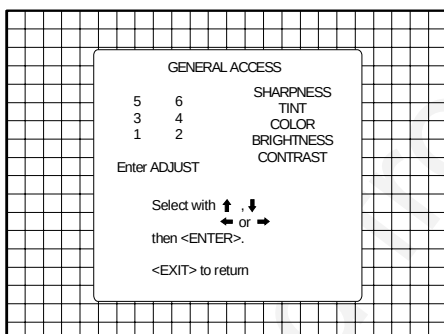
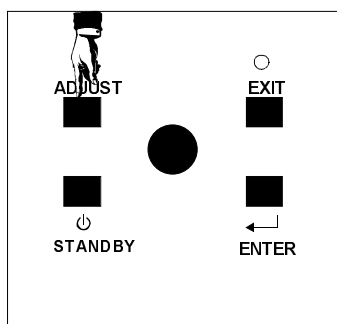
- a) The RCU. The control keys are located on the left side of the key panel of the RCU and indicated with the name of the control and an icon.

When an image control is pressed, a text box with bar scale and the function name of the control, e.g. 'brightness...' appears on the screen (only if text is ON). The length of the bar scale indicates the current memorized setting for this source. The bar scale changes as the + or - buttons of the control are pressed.

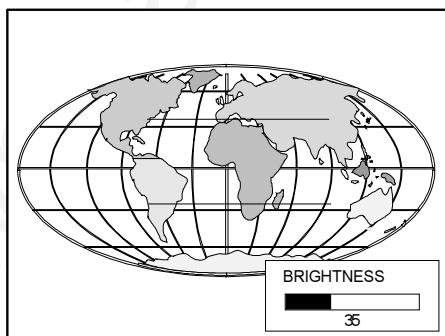
- b) The local keypad

All controls are hidden in the General access menu.

- Press **ADJUST** to display the *General access* menu.
- Use the control disc to highlight the desired analog control and press **ENTER** to select.



When a picture control is selected, a text box with bar scale and the function name of the control (e.g. brightness) appear on the screen. The length of the bar scale indicates the current memorized setting for this source (percentage scale). The bar scale changes as the control disc is pushed to the left or to the right.



Brightness Control

A correct 'brightness' setting is important for good image reproduction. Adjust the brightness with the + button and - button (RCU) or pushing the control disc to the left or to the right (local keypad) until the darkest parts of the picture appear black.

A bar scale gives a visual indication on the screen of the current brightness setting while pressing on the above indicated buttons. If the bar scale is not visible on the screen, press 'TEXT' once and retry the above indicated buttons.

The bar scale increases when pressing on the + button (higher brightness) and decreases when pressing on the - button (lower brightness).

Contrast Control

A correct 'contrast' setting is important for good image reproduction. Adjust the contrast to the level you prefer, according to room lighting conditions.

A bar scale gives a visual indication on the screen of the current contrast setting while pressing the + or - buttons (RCU) or pushing the control disc to the left or to the right (local keypad). If the bar scale is not visible on the screen, press 'TEXT' key once and retry the above indicated buttons.

The bar scale increases when pressing on the + button (higher contrast) and decreases when pressing on the - button (lower contrast).

Color Saturation Control

Color saturation is only active for Video and S-Video. Adjust the color saturation using the + and - buttons (RCU) or pushing the control disc to the left or to the right (local keypad). A bar scale gives a visual indication on the screen of the current color setting while pressing on the above indicated buttons. If the bar scale is not visible on the screen, press 'TEXT' key once and retry the above indicated buttons. The bar scale increases when pressing on the + button (richer colors) and decreases when pressing the - button (lighter colors).

Tint Control

Tint is only active for Video and S-Video. Tint control is effective only when using the NTSC 4.43 or NTSC 3.58 system. A bar scale gives a visual indication on the screen of the current tint setting while pressing the + or - buttons (RCU) or pushing the control disc to the left or to the right (local keypad). If the bar scale is not visible on the screen, press the 'TEXT' key once and retry the above indicated buttons.

The bar scale increases when pressing on the + button and decreases when pressing the - button.

Sharpness Control.

Sharpness control only active for Video and S-Video. A bar scale gives a visual indication on the screen of the current sharpness setting while pressing the + or - buttons (RCU) or pushing the control disc to the left or to the right (local keypad). If the bar scale is not visible on the screen, press 'TEXT' key once and retry the above indicated buttons.

The bar scale increases when pressing on the + button (sharper picture) and decreases when pressing on the - button (softer picture).

The Pause key.

When the Pause key is pressed, the image projection is stopped but the projector remains with full power for immediate restart.

To restart the image :

- Press the Pause key,
- Select a source number.

The Freeze key.

When the Freeze key is pressed, the image is frozen until this key is pressed again (only with built in Line Doubler)

5

START UP OF THE ADJUSTMENT MODE

Adjustment mode

All picture geometry and convergence adjustments are made while in the 'Adjustment mode'. Two possible ways to enter the adjustment mode :

a) Using the RCU.

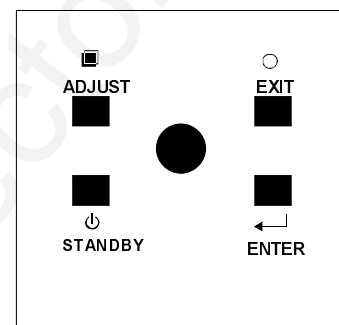
Press the **ADJUST** key.

The projector displays the path selection menu.

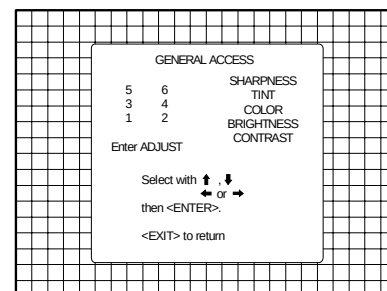
b) Using the local keypad.

Press the **ADJUST** key.

The projector displays the *General access menu*.



Use the control disc to highlight *enter ADJUST* and press **ENTER**. The path selection menu will be displayed.



Note : to adjust the Analog picture control while in the 'Adjustment mode', press the **ADJUST** key. The next General Access menu will be displayed.

Push the control disc up or down to select the analog control to be adjusted and press the **ENTER** key to confirm.

When the analog control is adjusted the projector returns automatically to the General access menu. When you want to return to the Adjustment mode, press **EXIT**, otherwise select *quit ADJUST* and press **ENTER** to return to operational mode.

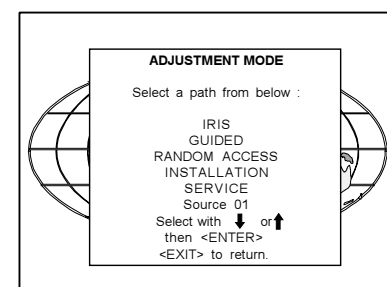
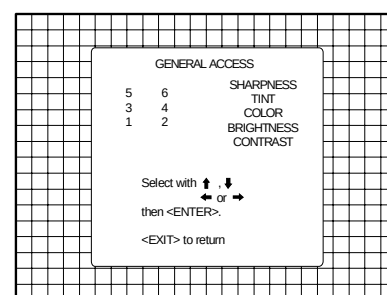
You are now in the '*Adjustment mode*'. The control disc is used to make menu selections and also vertical and horizontal adjustments. The **ENTER** and **EXIT** keys are used to move forward and backward through the menu structure. The **ADJUST** key can be used to terminate the adjustment mode while a path selection menu (head menu) is displayed.

There are 5 possible paths to follow once in the Adjustment mode. They are :

INSTALLATION - Installation should be selected if the projector has been relocated and/or a different screen size is desired.

When selecting 'Installation', the user or operator will be warned to call a qualified technician to perform the installation procedure (see example of projected warning on next page).

GUIDED - Guided should be selected if the user intends to perform a complete alignment of the projected image. All of the necessary geometry and convergence adjustments are made in a predetermined sequence.



Start up Adjustment mode

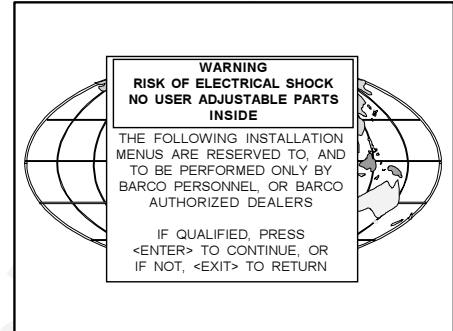
RANDOM ACCESS - Random Access should be selected if the user intends to make only a few adjustments.

SERVICE - Service should be selected if the user intends to delete blocks, change password or consulting information.

IRIS - This selection will only be available when the autoconvergence unit IRIS is built in into the projector.

While in Guided or Random Access adjustment Mode, the user may use an external source, an internally generated genlocked pattern or an internally generated multifrequency cross hatch pattern as a setup pattern.

Warning during the start up of the installation mode



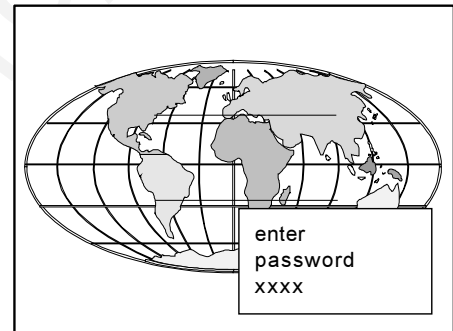
Some items in the Adjustment mode are password protected. While selecting such an item, the projector asks you to enter your password. (Password protection is only available when the password jumper on the controller module is in the ON position. Contact a BARCO authorized technician when no password is requested during the adjustment procedure and password protection is desired.)
Your password contains 4 digits.

a) Adjusting the projector with the RCU.

Enter the digits with the numeric keys on the RCU.

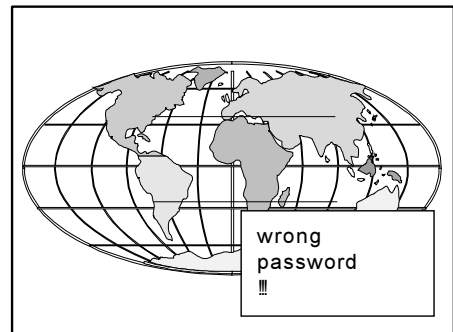
Example : 2 3 1 9

For each digit entered, a 'X' appears on the screen under the displayed text 'enter password'.



When your password is correct, you get access to the 'Adjustment mode'.
When the entered password is wrong, The message 'Wrong password !!!' will be displayed. The projector stays on the previous selected item.

Factory programmed
password : 0000



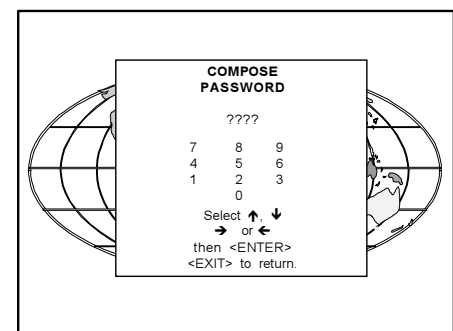
b) adjusting the projector with the local keypad.

When the 'compose password' menu is displayed, select with control disc the first digit of your password and press **ENTER**. Continue by selecting the second digit with the control disc and press **ENTER**. Handle in the same way for the third and fourth digit.

When your password is correct, you get access to the 'Adjustment mode'.

When the entered password is wrong, the message 'Wrong password' will be displayed.

Once the password is correctly entered, all other password protected items are accessible without re-entering your password.
When re-entering the adjustment mode, it will be necessary to enter your password again when selecting a password protected item.



6

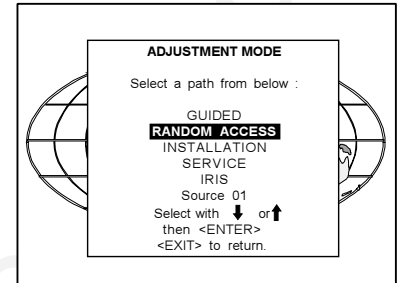
RANDOM ACCESS ADJUSTMENT MODE

Starting up the random access adjustment mode.

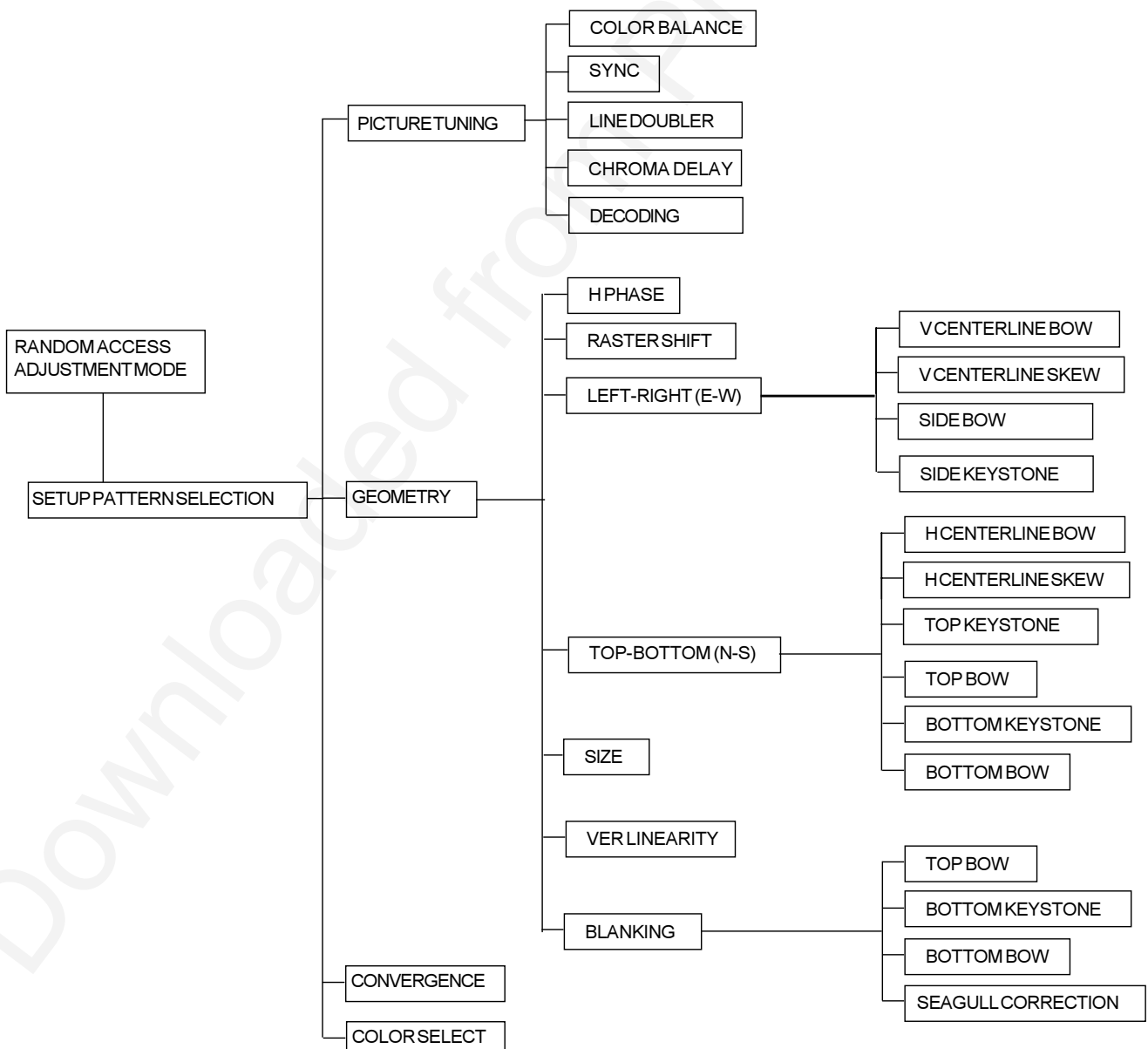
Push the control disc up or down to highlight "RANDOM ACCESS" and then press **ENTER**.

Some items in the Random access mode are password protected (when the password function is enabled). Enter your password to continue. All other password protected items are now also available if you stay in the adjustment mode.

ENTER continues to Setup Pattern Selection
EXIT returns to operational mode



Overview 'random Access Adjustment' mode.

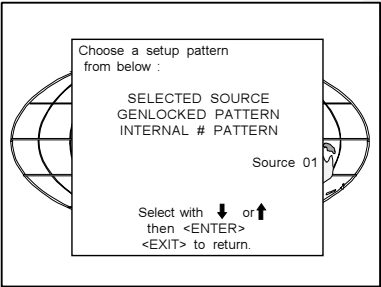


Selecting Setup Pattern

If an external source is connected to the projector, this menu will be displayed. Push the control disc up or down to highlight the desired setup pattern and then press **ENTER**.

Genlocked pattern : internally generated cross hatch pattern, locked on the external source.

Internal # pattern : internally generated cross hatch pattern and locked on internal generated sync signals. (No external source necessary)



- ENTER** continues to Random Access Adjustment Mode or Internal # Pattern Selection
- EXIT** returns to Path Selection menu
- ADJUST** returns to Operational mode

If no external source is connected to the projector, the internal cross hatch pattern menu will be displayed.

Note: The menus in this manual are created for an external source, connected to one of the inputs, and the 'Genlocked Pattern' is selected.

Internal Cross Hatch Pattern

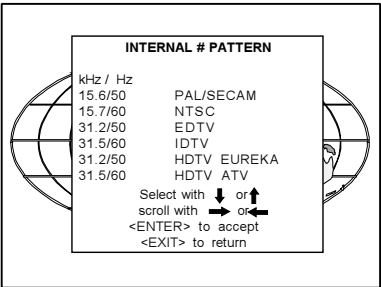
The Internal # pattern menu will be displayed if the internal cross hatch pattern has been selected or if no source is connected to the projector.

The table below lists the 8 fixed factory preset frequencies available. Another 8 blocks are custom programmable.

Push the control disc up or down to highlight the desired cross hatch frequency. Push the control disc to the left or to the right to scroll to another page. Press **ENTER** if the desired block is selected.

kHz/Hz

15.6/50	PAL/SECAM
15.7/60	NTSC
31.2/50	EDTV
31.5/60	IDTV
31.2/50	HDTV EUREKA
31.5/60	HDTV ATV
33.7/60	HDTV HVISION
15.8/60	EGA 1



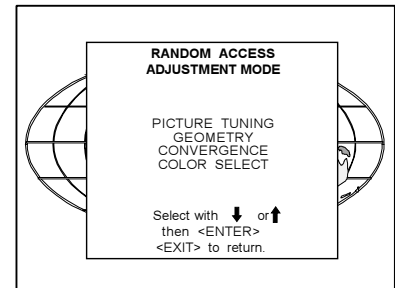
- ENTER** continues to the Random Access Adjustment Mode.
- EXIT** returns to the Setup Pattern Selection menu.

Random access adjustment mode selection menu.

This is the main menu for the Random Access adjustment mode.
Through this menu, the following adjustments and features are accessible :

- Picture Tuning
 - Sync slow/fast(only on inputs 3,4,5,6)
 - Color Balance
 - Decoding & Chroma delay
- Geometry
- Convergence
- Color select

And also Orbiting, Contrast modulation if these options are installed.

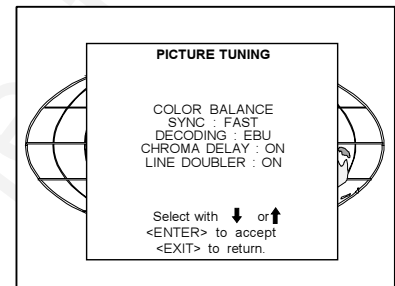


Picture Tuning

Highlight *Picture tuning* by pushing the control disc up or down and press **ENTER**.
The Picture tuning menu will be displayed.

Depending on the input source, the 'Picture tuning' menu will display different items.

- Color Balance
- Sync slow/fast
- Line doubler
- Decoding : IRE/EBU
- Chroma Delay



Color Balance

The Color Balance function is used to select or adjust the color temperature of white used by the projector.

The Color Balance can be adjusted on two different ways :

- fixed color balance. You have the choice between 3200 K (reddish), 4900 K, 6500 K (white) or 9300 K (bluish).
- Custom white and black balance.

Fixed Color Balance.

Highlight *one of the 4 preprogrammed color temperatures* with the control disc and press **ENTER** to display the desired color balance.

Custom Color Balance.

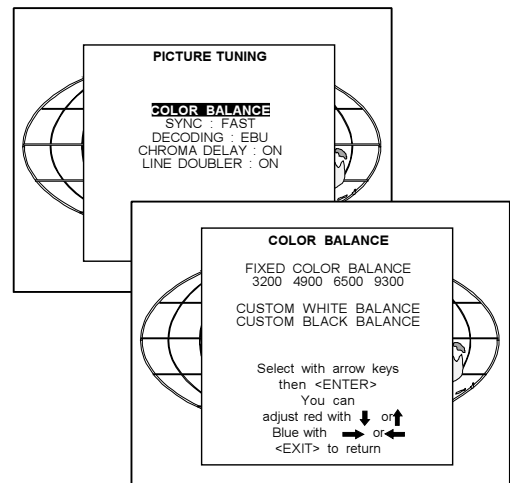
Select custom white balance by pushing the control disc up or down and press **ENTER** to start the adjustment.

Push the control disc up or down to adjust the red gain and push the control disc to the left or to the right to adjust the blue gain. A bar scale indicates the amount of adjustment.

Select custom black balance with the control disc and press **ENTER** to start the adjustment.

Push the control disc up or down to adjust the red cut-off and push the control disc to the left or to the right to adjust the blue cut-off.

When the color balance is adjusted, select continue by pushing the control disc up or down and press **ENTER**.

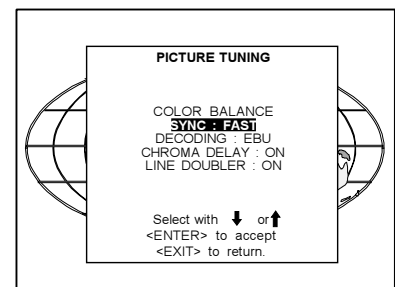


Sync Fast/Slow Adjustment (only inputs 3,4,5,6)

The sync function is used to minimize horizontal jittering or tearing at the top to the displayed image.

Highlight *SYNC* with the control disc and press **ENTER** to toggle between *FAST* and *SLOW*.

Note: SYNC is normally used in the SLOW position. The FAST position is used to compensate for unsteady sync pulses from older video playback equipment.



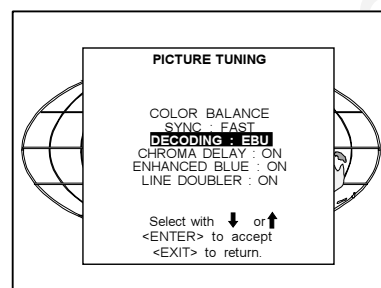
ENTER will toggle Sync between FAST and SLOW
EXIT will return to the Random Access Adjustment menu.

Decoding

Only for NTSC signals.

The possibility is offered to decode the NTSC video signals via the normal American IRE standard or via the European EBU standard. Highlight Decoding by pushing the control disc up or down and press ENTER to toggle between IRE and EBU (only available when a NTSC video signal is connected to the projector).

ENTER will toggle Decoding between IRE and EBU.
EXIT will return to the Random Access Adjustment menu.

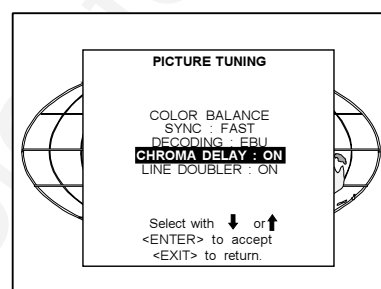


Chroma Delay

Only for PAL or SECAM video signals.

When a PAL video signal is connected to the projector, the chroma delay has to be set on PAL. When a SECAM video signal is connected to the projector, the chroma delay has to be set on SECAM. Highlight Chroma Delay by pushing the control disc up or down and press ENTER to toggle between PAL and SECAM (only available when a PAL or SECAM video signal is connected to the projector).

ENTER will toggle Chroma Delay between PAL and SECAM.
EXIT will return to the Random Access Adjustment menu.



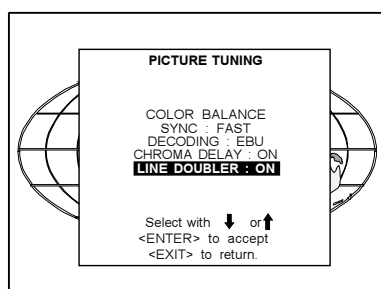
Line Doubler (option)

Line doubling is only possible for Video, S-Video, Component Video images on standard line frequency and RGB signals on 15 kHz.

To eliminate the video line patterns and to improve the image stability, the line doubler has to be switched on. The line doubler is default set in the ON position when starting up for the first time. The setting of the line doubler will be saved together with the source number. Each time this source number is selected, the last saved version will be loaded.

Highlight Line Doubler with the control disc and press ENTER to toggle between ON (active) and OFF (non active).

EXIT will return to the random access selection menu.



Color Select

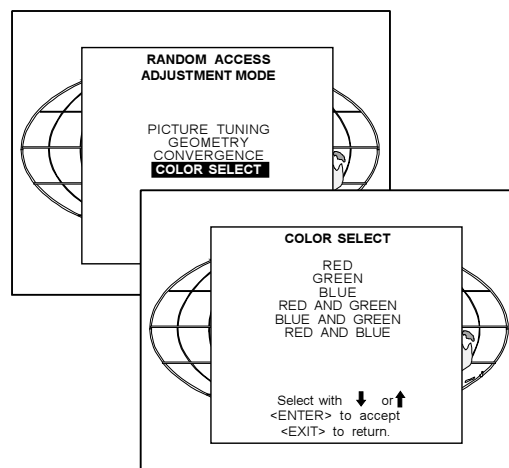
Highlight COLOR SELECT by pushing the control disc up or down and press ENTER to display the color select menu.

ENTER continues to the color select menu.
EXIT will return to Internal Crosshatch Selection or Setup Pattern Selection Menu.
ADJUST returns to operational mode.

Use the control disc to highlight a color (CRT) or combination of colors to display the projected image in that specific color.

To select a new color, press ENTER, the color selection menu appears again on the screen. To terminate the color select procedure, press EXIT.

ENTER continues with the selected color or color combination.
EXIT returns to the Random access main menu.



Geometry Adjustments

The geometry adjustments have to be done only on the green image. These adjustments are automatically implemented for the other color images : Left-right (EW) and Top-Bottom Corrections, Blanking, Horizontal Amplitude, Vertical Amplitude, Vertical Linearity and Horizontal Phase.

Highlight **GEOMETRY** by pushing the control disc up or down and press **ENTER** to display the geometry menu.

ENTER will display Geometry menu.

EXIT will return to Internal Crosshatch Selection or Setup Pattern Selection Menu.

ADJUST returns to operational mode.

Within the Geometry Adjustment menu, the following adjustments are available :

- Horizontal Phase (not for internal # pattern).
- Raster Shift
- Left-Right Corrections
- Top-Bottom Corrections
- Horizontal Size
- Vertical Linearity
- Vertical Size
- Blanking

The convergence corrections are disabled during geometry corrections. The blanking corrections are only enabled during the blanking adjustments.

Horizontal Phase Adjustment

Push the control disc up or down to highlight **H PHASE** on *Geometry menu* and then press **ENTER**.

Note : No horizontal phase adjustment is available on the internal # pattern.

For external sources :

If the raster shift is correctly adjusted, the H Phase text box is projected in the middle of the raster. At that moment, the "><" icon indicates the middle of the raster.

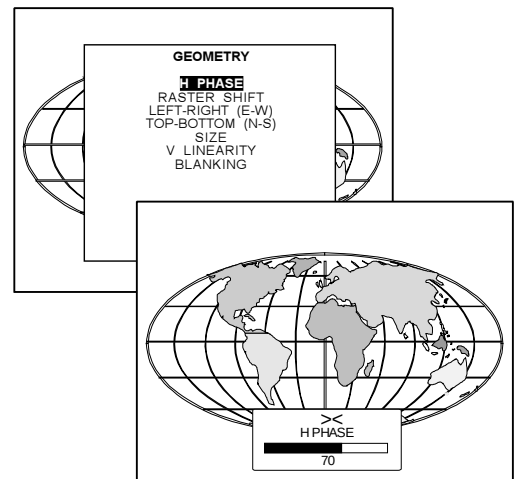
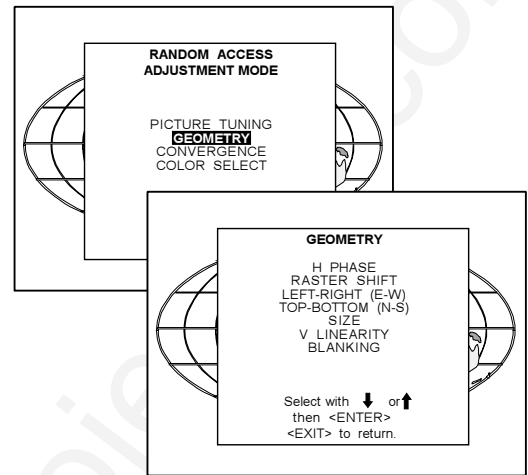
Adjust the H Phase control until the middle of the projected image is equal with the middle of >< icon.

Note :

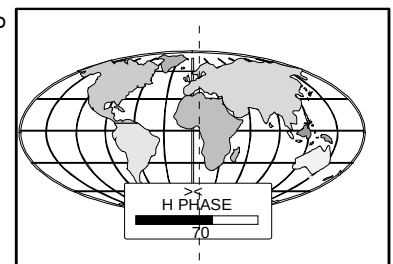
- If the genlocked pattern was selected, the external source will be displayed.

A bar scale and a number indicator (between 0 and 100) on the screen give a visual indication of the horizontal phase adjustment.

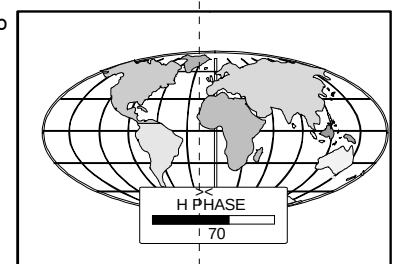
ENTER continues to geometry menu .



Push the control disc to the right to correct



Push the control disc to the left to correct



Raster Shift Adjustment

The green raster must be centered both horizontally and vertically on the center of the CRT surface. To center the green raster, look into the green lens and use the control disc to move the raster.

CAUTION

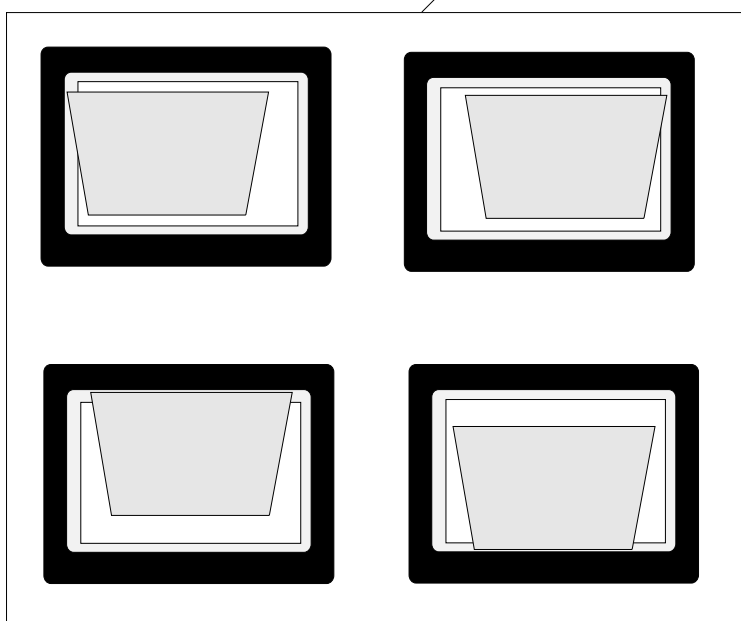
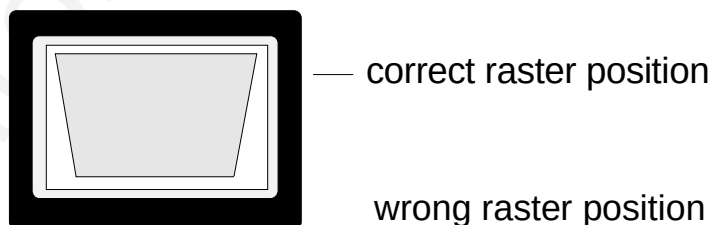
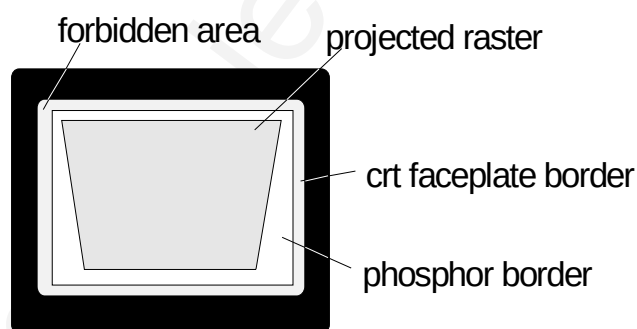
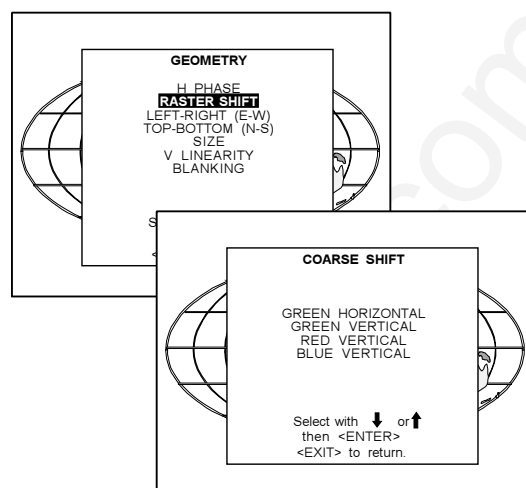
It is necessary to look into the lenses to perform these adjustments. To avoid eye discomfort while looking into the lenses, reduce the contrast and gradually increase the brightness level until the raster becomes visible on the face of the CRT.

ENTER will select green raster shift adjustment

EXIT returns to random access adjustment mode menu.

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.

To start the adjustment, use the control disc to highlight Raster shift and press **ENTER** to display the green raster on the phosphor.



Press **EXIT** to return to the Geometry menu.

Note : Horizontal and Vertical shifts for Red and Blue should end up with a setting close to 50%. If these settings are significantly greater or lesser than 50%, contact a BARCO authorized service technician.

Left-Right (east-west) Adjustments

Left-right and center adjustments affect only the vertical lines of the projected image.

To start up the left-right and center adjustments, follow the next procedure :

Push the control disc up or down to highlight **LEFT-RIGHT (E/W)** on the geometry menu and then press **ENTER**.

ENTER will select Left-Right adjustment menu
EXIT returns to random access adjustment mode main menu.
ADJUST returns to operational mode

Only the green image is displayed while making left-right adjustments. The red and blue images will automatically be corrected in the same manner. Convergence corrections are automatically disabled for the duration of these adjustments.

The following adjustments can be executed

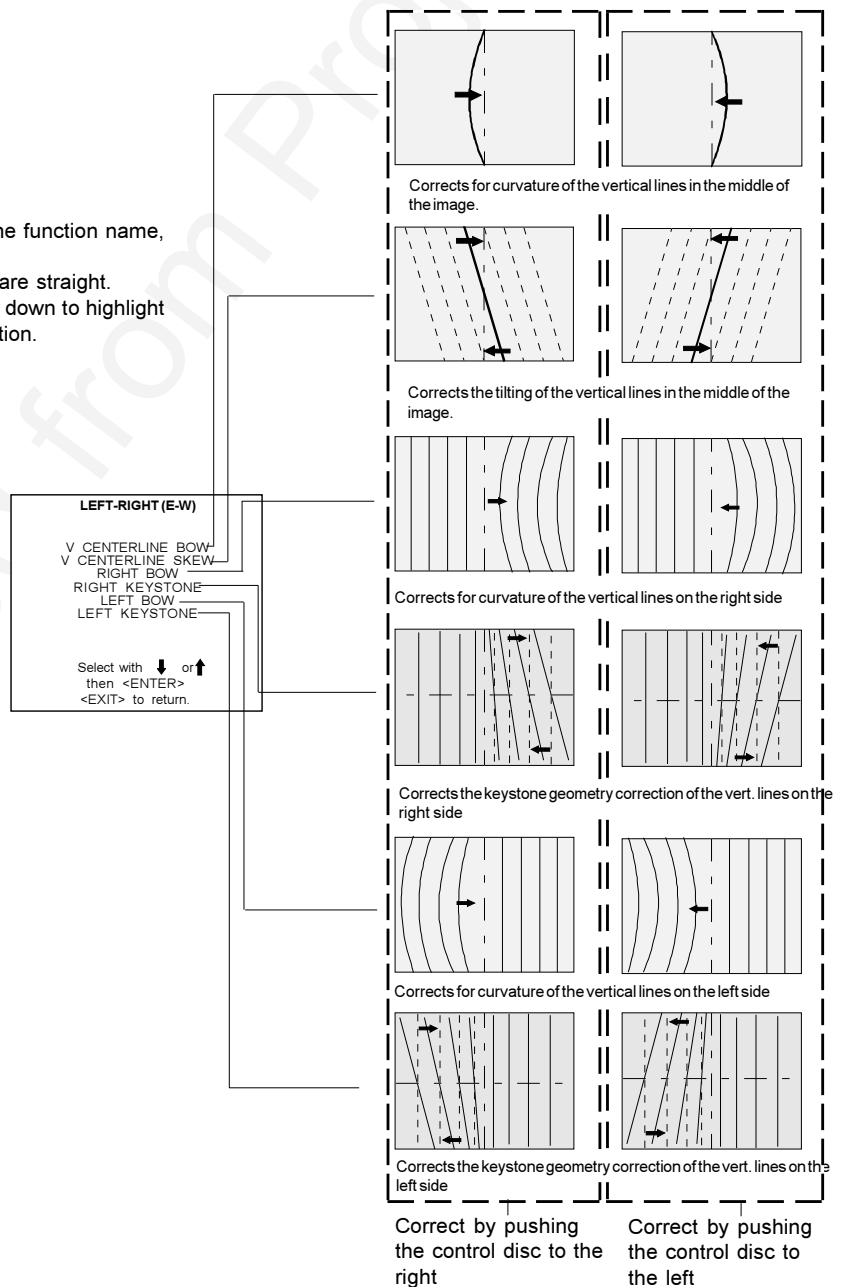
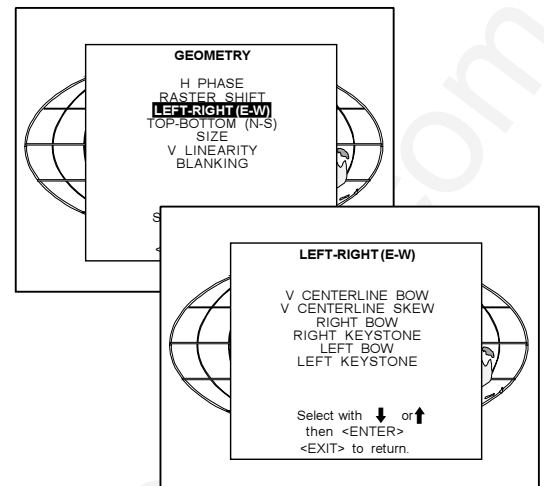
- vertical centerline bow
- vertical centerline skew
- side keystone (left - right)
- side bow (left - right)

All adjustment are indicated on the screen with the function name, a bar scale and a number between 0 and 100.

Adjust the next alignments until the vertical lines are straight.

To enter an alignment, push the control disc up or down to highlight a function and press **ENTER** to activate this function.

Press **EXIT** to return.



Top-Bottom (north-south) Adjustments

Top-Bottom and center adjustments affect only the horizontal lines of the projected image.

To start up the Top-Bottom and center corrections, follow the next procedure :

Push the control disc up or down to highlight **TOP-BOTTOM (N/S)** on the geometry menu and then press **ENTER**.

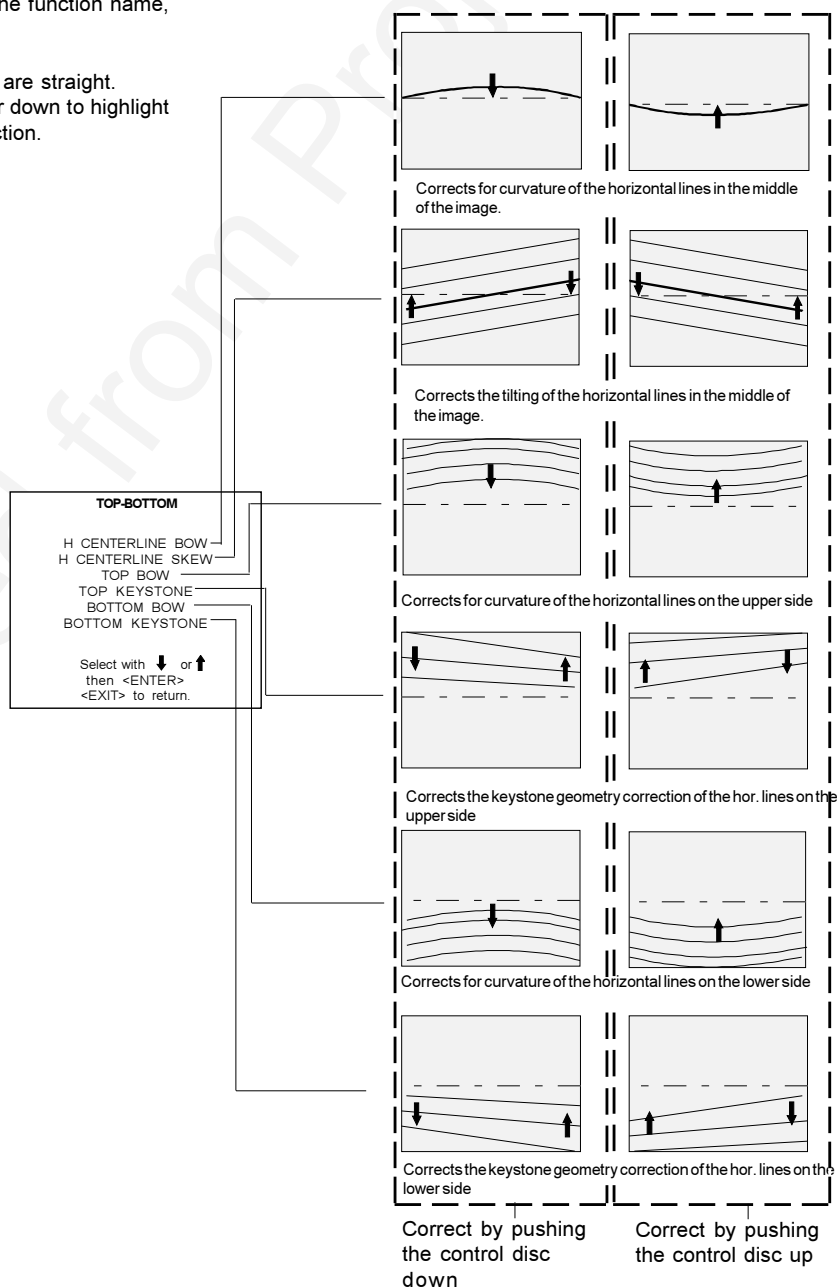
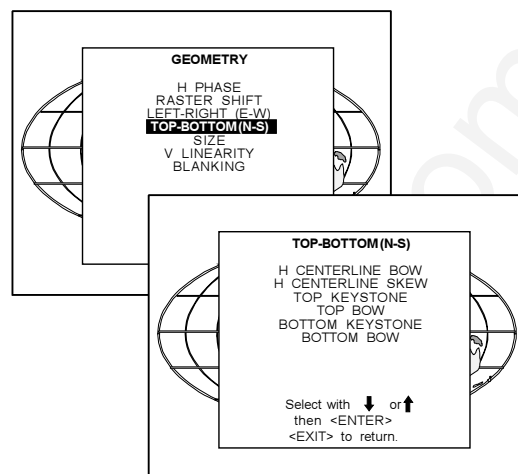
Only the green image is displayed while making top-bottom adjustments. The red and blue images will automatically be corrected in the same manner. Convergence corrections are automatically disabled for the duration of these adjustments.

The following adjustments can be executed :

- Horizontal centerline bow
- Horizontal centerline skew
- Top bow
- Top keystone
- Bottom bow
- Bottom keystone

All adjustment are indicated on the screen with the function name, a bar scale and a number between 0 and 100.

Adjust the next alignments until the vertical lines are straight.
To enter an alignment, push the control disc up or down to highlight a function and press **ENTER** to activate this function.
Press **EXIT** to return.



Size Adjustment

Push the control disc up or down to highlight **SIZE** on the Geometry menu and then press **ENTER**.

ENTER will select size adjustment.

EXIT returns to random access adjustment mode menu.

ADJUST returns to operational mode.

Adjust the horizontal size by pushing the control disc to the right or to the left until the exact image width is obtained.

Adjust the vertical size by pushing the control disc up or down until the exact image height is obtained.

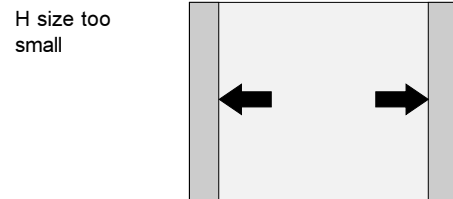
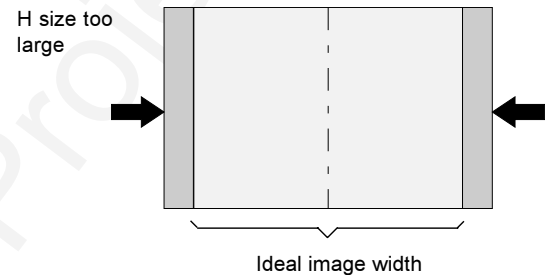
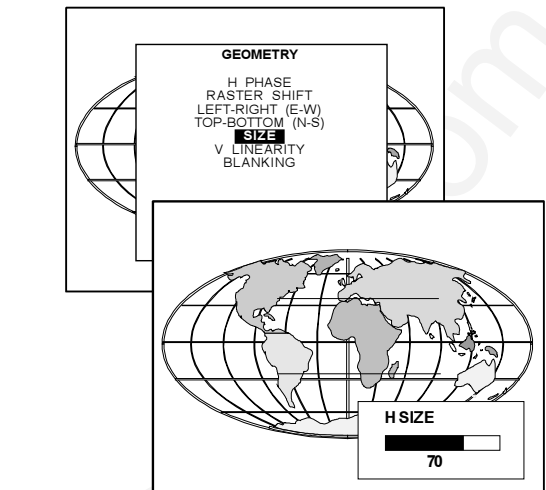
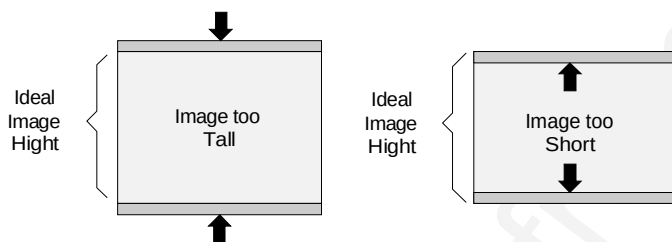
Note :

- If the internal # pattern was selected, this pattern remains on the screen.
- If the genlocked pattern was selected, the external source will be displayed.

A bar scale and a numeric indicator help to gauge the size adjustment.

Hint : In order to avoid loss of resolution in the projected image and to ensure maximum CRT longevity, do not use an excessively small horizontal size setting.

EXIT will return to Geometry.



Vertical Linearity Adjustment

The vertical linearity adjustment function corrects for vertical non-linearities which extend from the center of the image to the top and bottom of the image.

Push the control disc up or down to highlight **V LINEARITY** on the Geometry menu and then press **ENTER**.

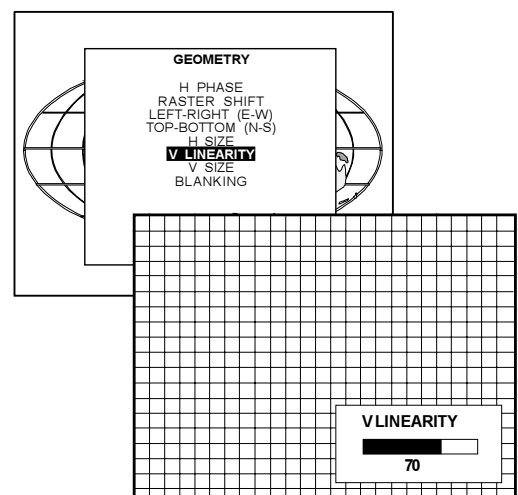
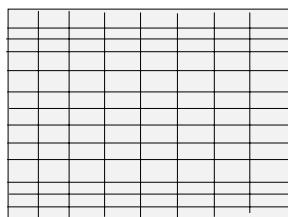
ENTER will select vertical linearity adjustment.

EXIT returns to random access adjustment mode menu.

ADJUST returns to operational mode.

Adjust the vertical linearity with the control disc until the distances between the horizontal lines of the set up pattern are equal from top to bottom.

EXIT will return to the Geometry menu.



Blanking Adjustments

Blanking adjustments affect only the edges of the projected image and are used to frame the projected image on to the screen and to hide or black out unwanted information (or noise). A 0% on the bar scale indicates no blanking.

To start up the Blanking adjustments, follow the next procedure :

Push the control disc up or down to highlight **BLANKING** on the Geometry menu and then press **ENTER**.

The following blanking corrections are possible :

- Top blanking
- Bottom blanking
- Left blanking
- Right blanking

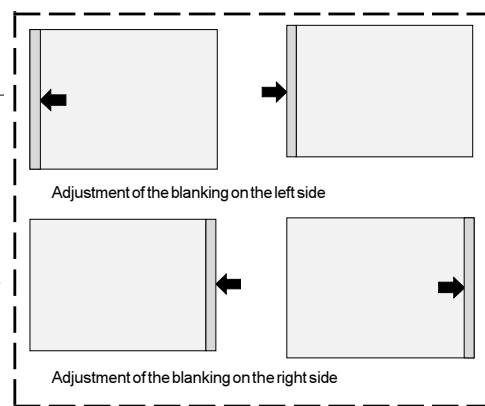
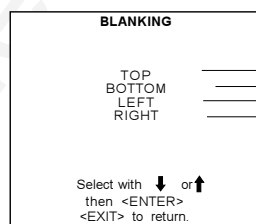
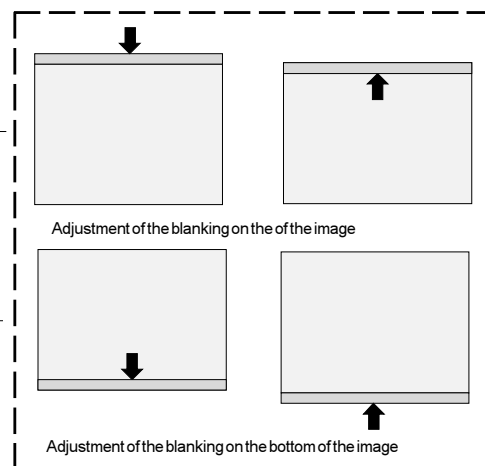
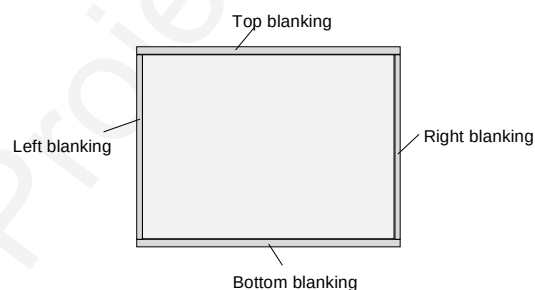
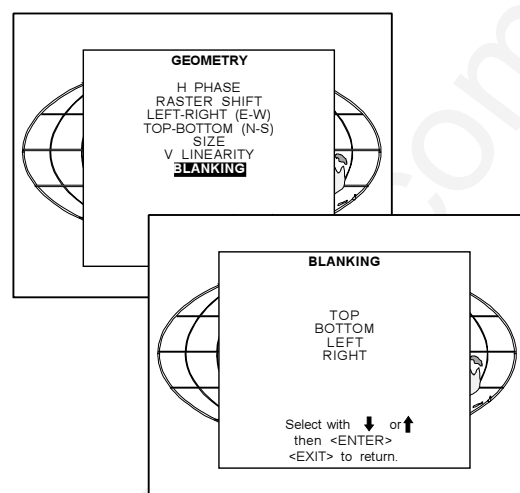
Therefore :

- If the internal # pattern was selected, this pattern remains on the screen.
- If the genlocked pattern was selected, the external source will be displayed.

Adjust the next blanking alignments until the image is correctly framed or the unwanted information is blanked out.

To enter a blanking alignment, push the control disc up or down to highlight a function and press **ENTER** to activate this function.

Press **EXIT** to return.



Convergence Adjustment

Convergence adjustments affect both the horizontal and vertical lines of the setup pattern. These adjustments are performed on the red image while superimposed on the green image and then on the blue image while superimposed on the green image.

Note : the green convergence adjustments can be added as an option. When these are available, start always with 'green only'. This option will also be indicated on the convergence menu.

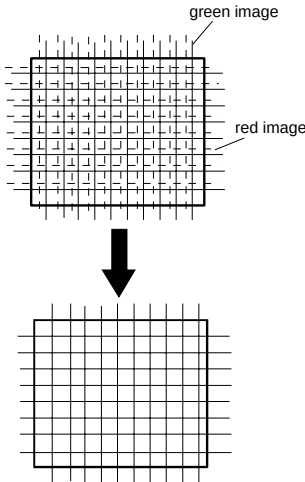
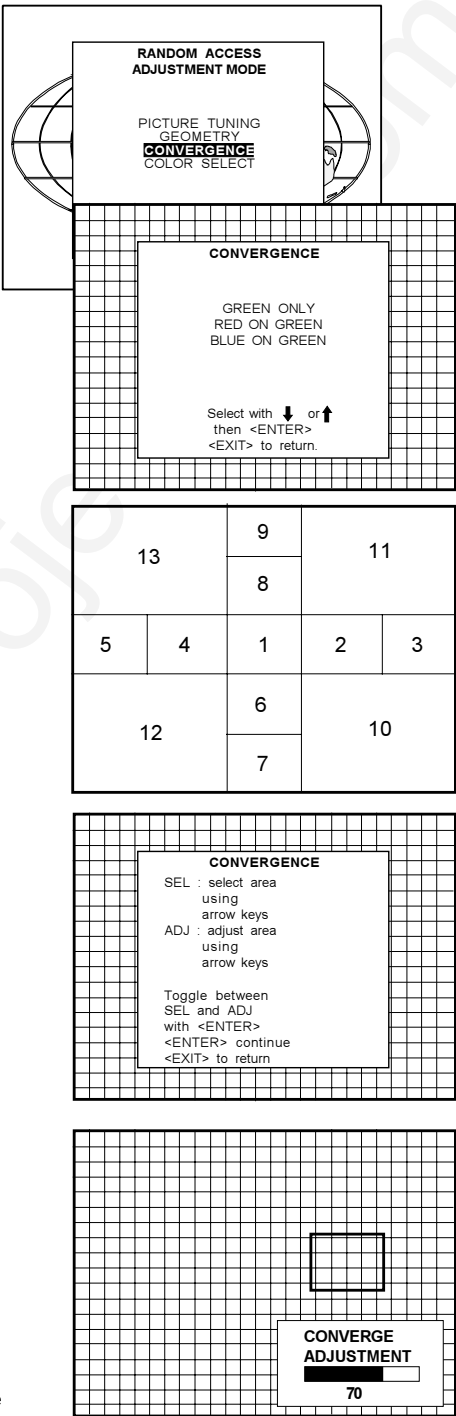
Highlight first 'Green only' when available by pushing the control disc up or down and press ENTER to display the convergence adjustment menu.

The screen area is divided into 13 areas.

Use the control disc to move the box to the desired zone and then press ENTER to begin the convergence adjustment. Start the convergence adjustment with zone one and continue as mentioned in the diagram hereafter.

Use the control disc to make horizontal or vertical convergence adjustments in the selected zone and then press ENTER to move the box to another zone or EXIT to return to the Convergence menu.

ENTER toggles the control disc between zone selection and zone adjustment .
EXIT returns to convergence menu



Downloaded from Projector.com

7

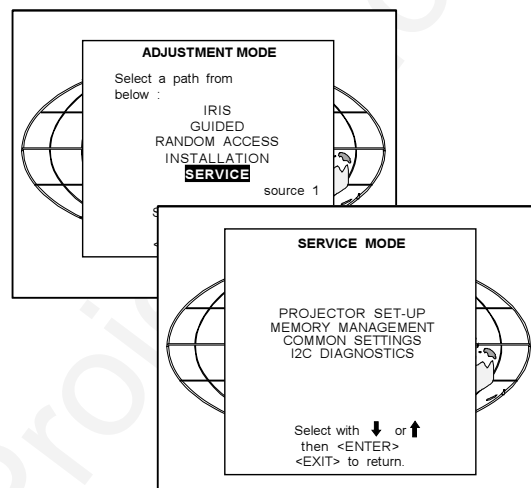
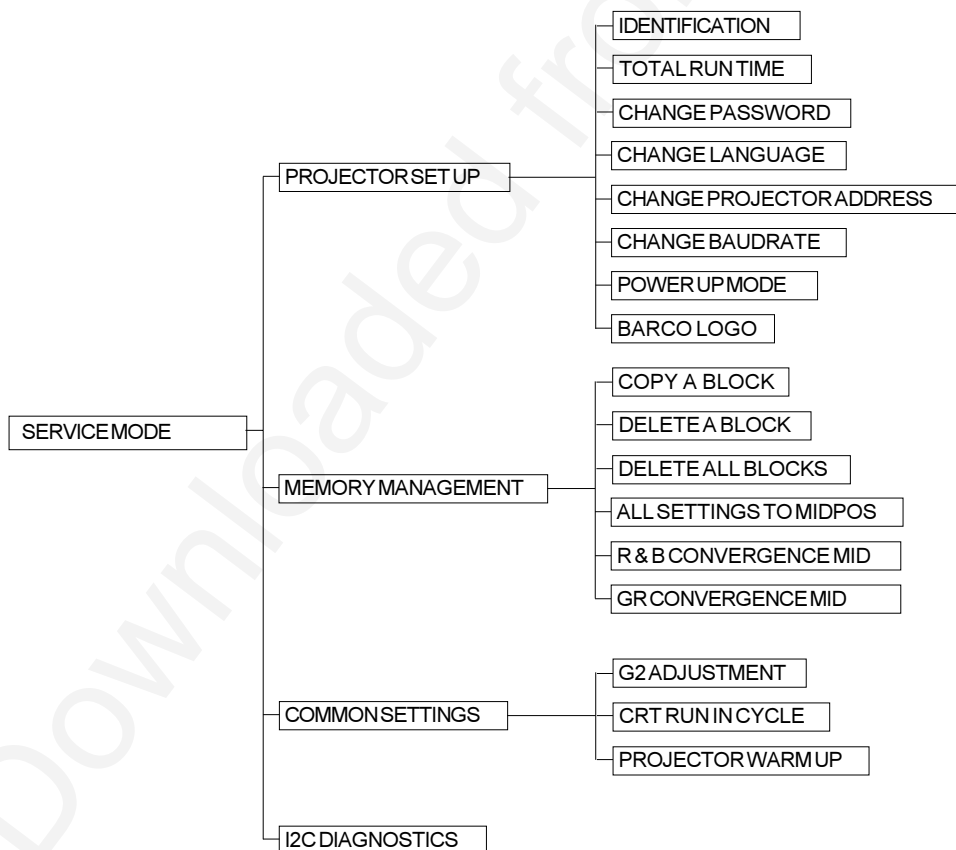
SERVICE MODE

Starting up the Service mode.

Use the control stick to highlight 'Service' and then press **ENTER**.

Some items in the Service mode are password protected (when the password function is active). Enter your password to continue. All other password protected items are now also available if you stay in the adjustment mode.

ENTER continues to the Service Mode main menu.
EXIT returns to the Operational mode.

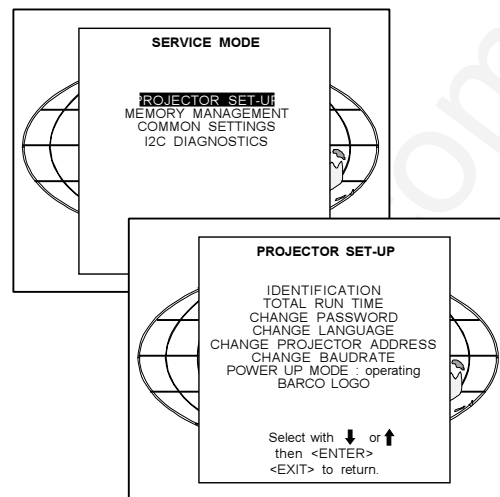
**Overview flowchart 'Service' mode.**

Projector Set-up

Highlight '*Projector Set-Up*' by pushing the control disc up or down and press **ENTER** to display the projector set-up menu.

Within the projector set-up menu, the following items can be consulted or set to the desired setting :

- Identification
- Total run time
- Change password
- Change language
- Change projector address
- Change baudrate
- Power up mode
- BARCO logo



Identification

Highlight '*Identification*' with the control disc and press **ENTER**.

ENTER will start the selected item.
EXIT returns to the Service mode menu.

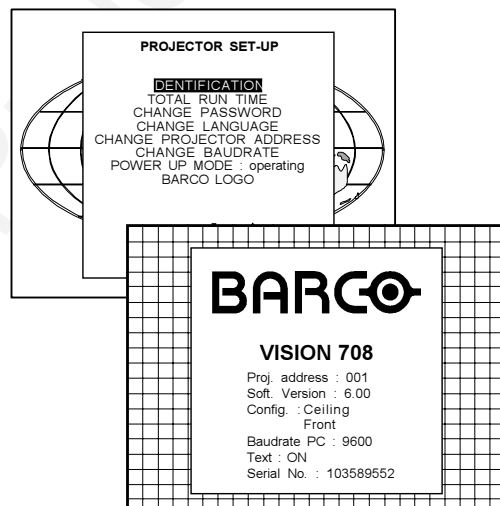
The 'Identification' screen gives information concerning :

- Projector address. To change the address of your projector, contact a qualified service technician.
- Software version.
- Configuration.
 - Possible installations :
 - * Front-ceiling
 - * Front-table
 - * Rear-ceiling
 - * Rear-table
- Baud rate PC : transfer speed for communication with an IBM PC (or compatible) or MAC. The baud rate of the projector must be the same as the baud rate of the connected computer. When there is a difference, contact a qualified service technician to make the appropriate changes.
- Text ON/OFF

Indicates in operational mode if the bar scale and number indicator will be displayed and if warnings and failures will be displayed.

ON : displayed
 OFF : not displayed

The status can be changed by pressing the 'TEXT' key once on the RCU.
- Serial no. : indicates the fabrication number of the projector. This number can be useful when calling for technical assistance.



Total Run Time

Highlight 'Total Run Time' with the control disc and press **ENTER** to display the amount of time the projector has played since its first start up at the factory.

ENTER gives the selected item.
EXIT returns to the Service mode menu.
ADJUST returns to the Operational mode.

Note : all projectors leave the factory after a burn-in period of approximately 100 hours.

Change password

This item is password protected.

Highlight 'Change Password' with the control disc and press **ENTER**.

ENTER will display the selected item.
EXIT will return to the Path Selection main menu.
ADJUST will return to the Operational mode.

The current password is displayed. The new password must consist of 4 digits between 0 and 9. Push the control disc to the left or to the right to select the digits to be changed. Use the numeric keys to enter the new digits.

Press **ENTER** to save the new password. Before saving the new password, a confirmation screen will be displayed.

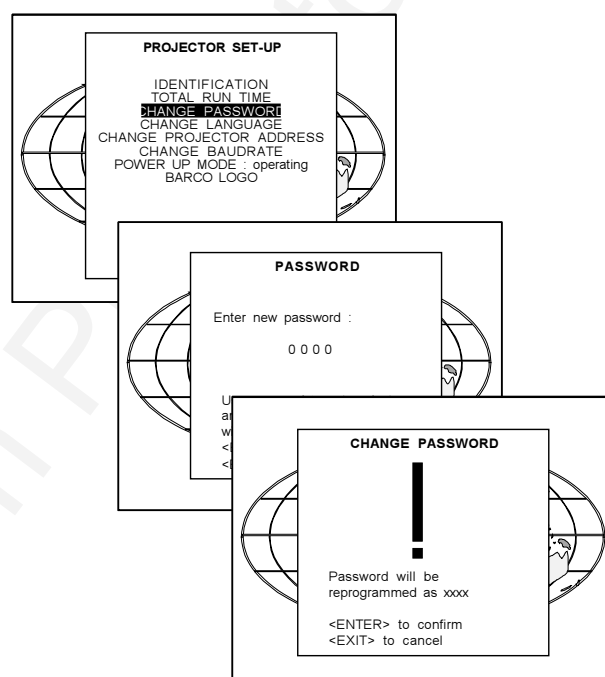
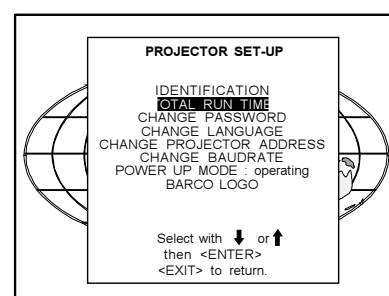
Press **EXIT** to return to the Projector Set-up menu without saving the new password.

When the displayed password is correct, press **ENTER** to save.

If not correct, press **EXIT** to cancel the saving.

ENTER saves the entered password.
EXIT returns without saving.

Password only active if jumper on controller is in 'ON' position.



Change Language

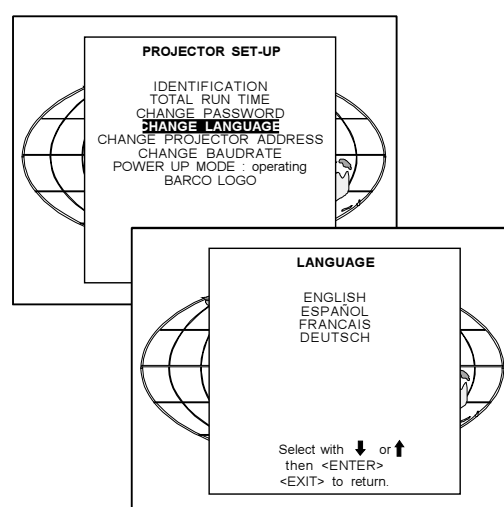
The 'Change Language' function offers the possibility to change the language of the screen menus to :

- English
- Spanish
- French
- German

Highlight 'Change Language' with the control disc and press **ENTER**.

ENTER selects the Change language menu.
EXIT returns to the Service menu.

Push the control disc up or down to select the desired language and press **ENTER** to change the language.



Change Projector Address

Every projector requires an individual address between 0 and 255. This address can be software installed.

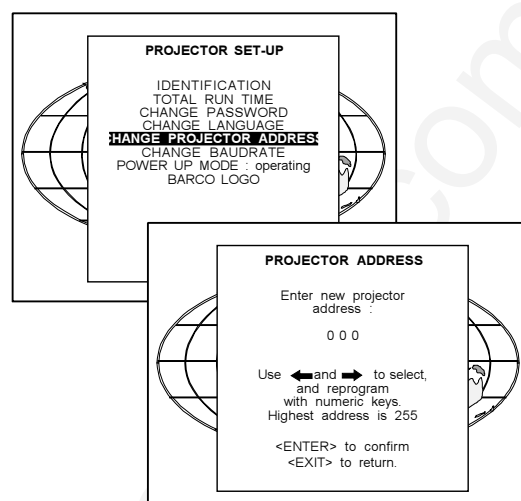
To change that address, push the control disc up or down to highlight 'Change Projector Address' and press **ENTER**. The Change Projector Address menu will be displayed and the actual address will be filled in.

ENTER displays the 'Change Projector Address' menu.
EXIT returns to the Service mode main menu.

The first digit is highlighted. Select the individual digits by pushing the control disc to the right or to the left. Reprogram with the digit keys on the RCU.

Press **ENTER** to confirm.

Press **EXIT** to return to the projector set up menu.



Change baudrate

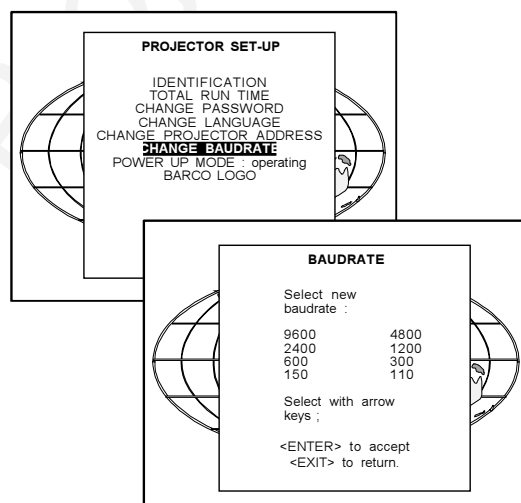
The communication speed between projector and computer has 8 possible speeds. The baud rate speed can be software set up. Highlight 'Change Baudrate' by pushing the control disc up or down and press **ENTER** to display the Baud rate menu.

The following baud rates are available :

- 9600
- 4800
- 2400
- 1200
- 600
- 300
- 150
- 110

The actual baud rate will be highlighted. To change the baud rate, push the control disc up or down or to the left or to the right to select the desired baud rate and press **ENTER** to accept this baud rate.

ENTER to accept the selected baud rate.
EXIT to return without changing the baud rate.



Power up mode

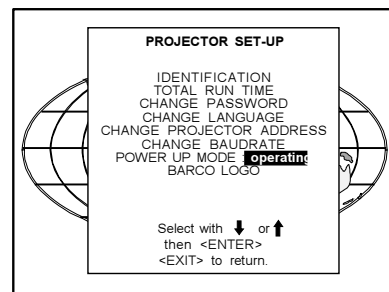
When pressing the power switch, the projector can start up in 'operating mode' or in 'stand-by mode'.

Operating mode : the projector start up and displays image .

Stand-by mode : the projector start up in stand-by and waits until the stand-by button or a digit key is pressed.

To change the Power up mode, select Power Up mode by pushing the control disc up or down and press **ENTER** to toggle between 'Operating' and 'Standby'.

ENTER to toggle between operating and standby.
EXIT to return to the Service menu.



BARCO_logo

The BARCO logo can be added to the image, in overlay or in background, on any place on the screen.

To add the BARCO logo or to change a setting in the BARCO logo menu, highlight 'BARCO logo' by pushing the control disc up or down and press **ENTER** to select.

WARNING : Continuous use of the BARCO logo damages the RED CRT.

ENTER displays the BARCO logo menu.
EXIT returns to the Service menu

The BARCO logo menu will be displayed on the screen. Within this menu, four toggle settings are available.

Mode[ON/OFF]:

ON : BARCO logo will be displayed on the screen.

To position the logo on the screen, push the control disc up, down, to the left or to the right until the desired position is reached.

OFF : No BARCO logo displayed on the screen.

Size [SMALL/LARGE] :

SMALL : Small BARCO logo will be displayed if mode is on.

LARGE : Large (double size) BARCO logo will be displayed if mode is on.

Background [ON/OFF] :

ON : BARCO logo will be displayed on a black background.

BARCO

OFF : BARCO logo will be displayed without any background.

BARCO

Orbiting [ON/OFF] :

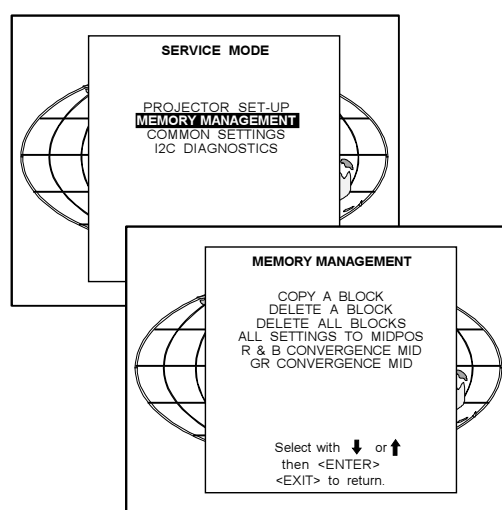
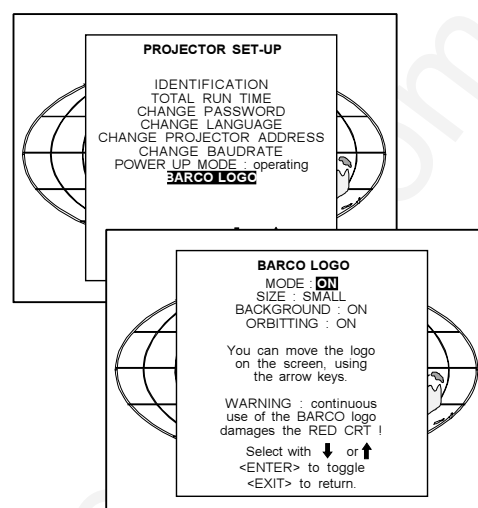
ON : on the BARCO logo will orbit around it axis.

OFF : no orbit of the BARCO logo.

Memory management

Highlight 'Memory management' by pushing the control disc up or down and press **ENTER** to display the memory management menu. Within the memory management menu, the following items can be consulted or executed :

- copy a block
- delete a block
- delete all blocks
- all settings to midposition
- R & B convergence to mid
- Gr convergence mid (only if green convergence is available)



Copy a block

The copy a block function copies the settings of a selected block into the active block.

Highlight *copy a block* with the control disc and press **ENTER**.

ENTER will select the highlighted item.
EXIT returns to the Path Selection main menu.
ADJUST returns to the Operational mode.

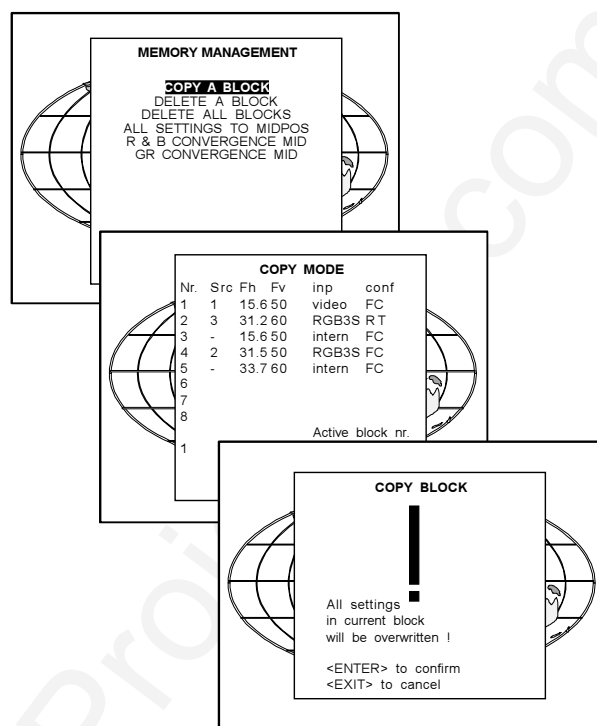
To copy the settings of a closed block to the block you are working on (active block), use the control disc to select a block. All current settings will be overwritten with the settings of the block which is copied.

Press **ENTER** to copy the selected block. A confirmation screen will be displayed.

ENTER displays a confirmation screen.
EXIT returns to the Service Mode main menu.

If you are certain you wish to copy the contents of the selected block into the active block, press **ENTER**.

EXIT cancels the copy procedure and returns without copying the block.



Deletion of blocks

This item is password protected.

The delete function is used to clear all data (settings) from an adjustment block.

A delete can be given :

- block by block
- or
- for all blocks.

Deleting block by block

The 'delete a block' function deletes the settings of a selected block. Highlight 'Delete a block' with the control disc and press **ENTER**.

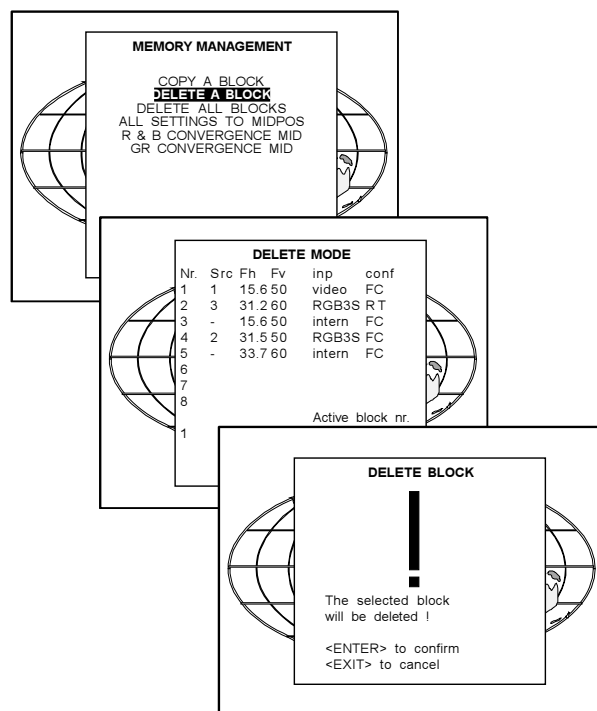
ENTER will select the pointed item.
EXIT returns to the Path Selection main menu.
ADJUST returns to the Operational mode.

Push the control disc up or down to select the desired adjustment block. Press **ENTER** to delete the selected adjusted block. A confirmation menu will be displayed.

ENTER displays the confirmation menu.
EXIT returns to the Service Mode main menu.

ENTER will delete the selected block.

EXIT cancels the deletion procedure and returns to the Service mode main menu.

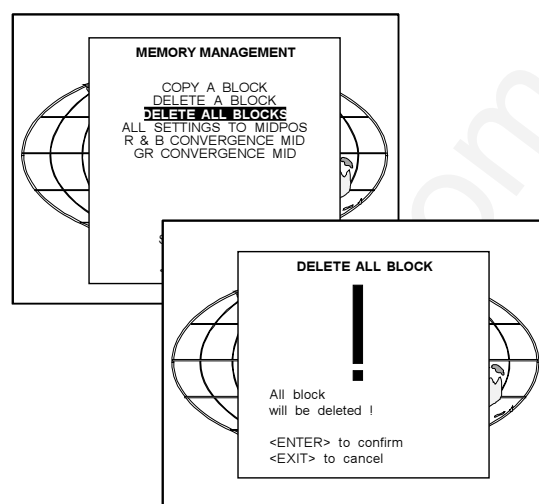


Deletion of all blocks

Highlight '*delete all blocks*' with the control disc and press **ENTER**.

ENTER gives a confirmation message before deleting.
EXIT returns to the Path Selection main menu.

If you are certain you wish to delete all blocks, press **ENTER** to confirm, otherwise press **EXIT** to return.
Once **ENTER** is pressed, all block headers and adjustment settings are permanently removed and cannot be restored.



All settings to midposition

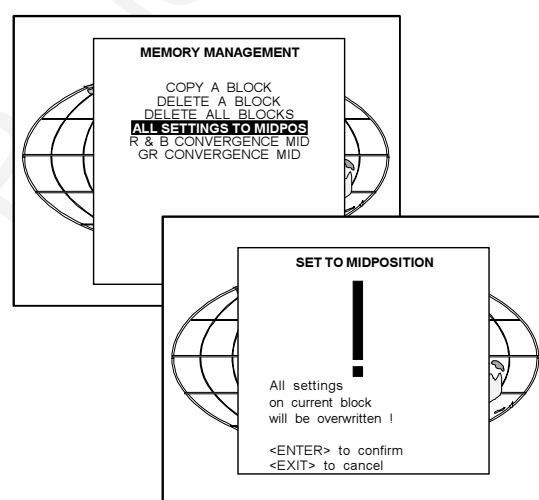
Item is password protected.

Highlight '*All settings to midposition*' with the control disc and press **ENTER** to set all settings to their midposition.

A confirmation menu will be displayed first.

ENTER displays a Confirmation screen.
EXIT returns to the Service menu.

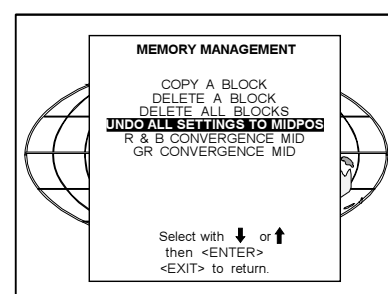
ENTER will set all settings to their midposition. **EXIT** will cancel the operation to set all settings to their midposition.



Undo all settings to midpos

When "All settings to midpos" is selected, all settings are set to their midposition. To cancel this action, select 'Undo all settings to midpos' by pushing the control disc up or down and press **ENTER**. 'Undo all settings to Midposition' is displayed in the Memory management menu in stead off 'All settings to midposition' when this latter is pressed.

An undo is possible as long as the projector is running on the same source (= same adjustment block) even when some adjustments as geometry or convergence are already readjusted. When undo is pressed all settings are reset to the previous settings.

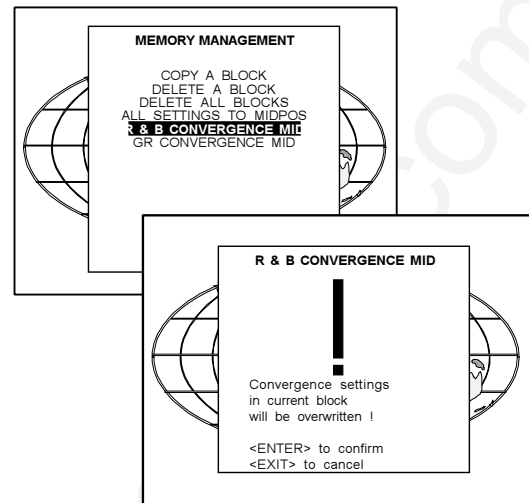


R & B convergence mid

Item is password protected.

Highlight 'R & B convergence mid' with the control disc and press **ENTER** to set all convergence settings to their midposition. A confirmation screen will be displayed first.

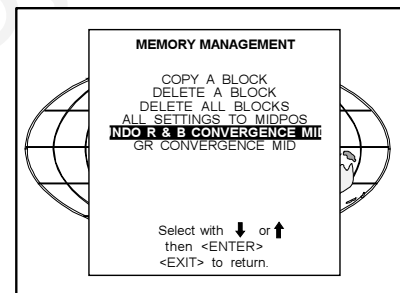
ENTER sets the convergence settings to their midposition. **EXIT** cancels the procedure to set the convergence settings to their midposition.



Undo R & B convergence mid

When "R & B convergence mid" is selected, all convergence settings are set to their midposition. To cancel this action, select 'Undo R & B convergence mid' by pushing the control disc up or down and press **ENTER**. 'Undo R & B convergence mid' is displayed in the Memory management menu in stead off 'R & B convergence mid' when this latter is pressed.

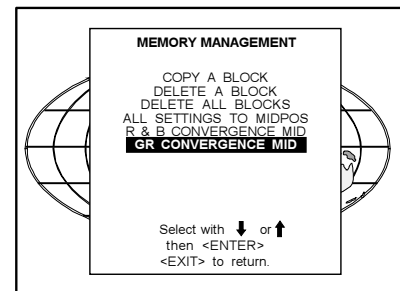
An undo is possible as long as the projector is playing on the same source (= same adjustment block) even when some adjustments are already readjusted. When undo is pressed all settings are reset to the previous settings.



Green convergence mid

Only available when the projector is equipped with green convergence adjustmentes.

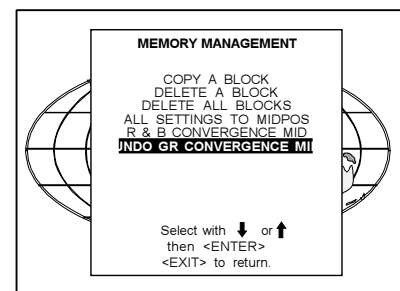
Highlight 'Gr convergence mid' by pushing the control disc up or down and press **ENTER** to switch off the green convergence.



Undo green convergence mid

Only available when the projector is equipped with green convergence adjustmentes.

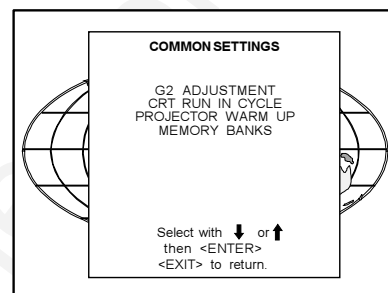
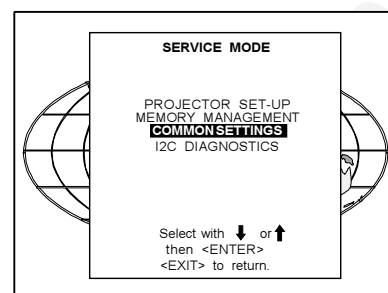
The item 'Undo green convergence mid' will automatically be displayed when the green convergence is switched to midposition. Press **ENTER** to switch on the green convergence.



Common Settings

Highlight 'Common settings' by pushing the control disc up or down and press **ENTER** to display the common settings menu. Within the common settings menu, the following items can be set up or executed :

- G2 adjustment
- CRT run in cycle
- Projector warm up
- Memory banks : on/off



G2 Adjustment

Item is password protected.

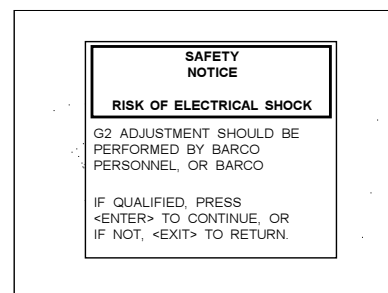
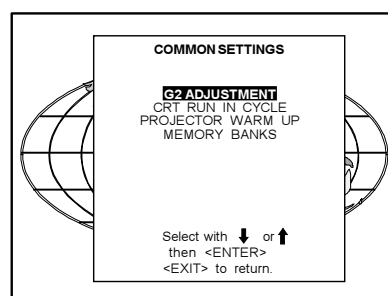
Highlight 'G2 adjust' with the control disc and press **ENTER** to continue.

A safety notice will be displayed on the screen as it is necessary to open the top cover to adjust the G2.

ENTER selects the G2 adjustment.
EXIT returns to the Common settings menu.
ADJUST returns to the Operational mode.

'G2 adjustment should be performed by BARCO personnel, or BARCO authorized dealers'.

If you are qualified, press **ENTER** to continue. If not qualified, press **EXIT** to return to the Common settings menu. Further description of the G2 adjustment is given in the Installation manual.



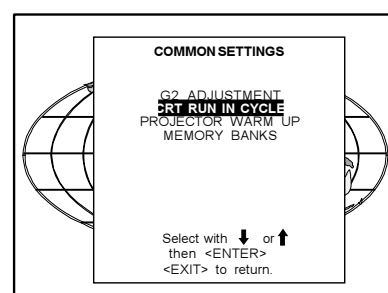
CRT run in cycle

Only necessary when a new picture tube is installed.

The CRT run in cycle option can only be activated when memory blocks on an internal # pattern are available. When one or more such blocks are available, a flashing white image (5sec on, 5 sec off) is generated and that for 5 min on the first internal block. In the next 5 min, a second internal block will be used to generate the flashing white image. The image will also be shifted in a vertical way to prevent a CRT burn in. To quit the CRT run in cycle option, press **EXIT**.

Highlight 'CRT run in cycle' with the control disc and press **ENTER** to start.

ENTER selects the CRT run in cycle option.
EXIT returns to the Path Selection main menu.

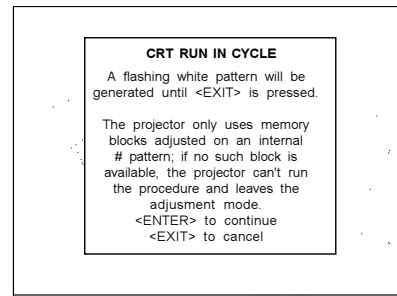


If a memory block adjusted on an internal # pattern is available, the CRT run in cycle will start when pressing ENTER. If no such a block is available, the projector cannot run the CRT run in option and leaves the adjustment mode.

If you still want to run CRT run in cycle, create first a memory block on an internal # pattern and restart the CRT run in option.

ENTER starts the 'CRT run in' when an internal generated # pattern is available.

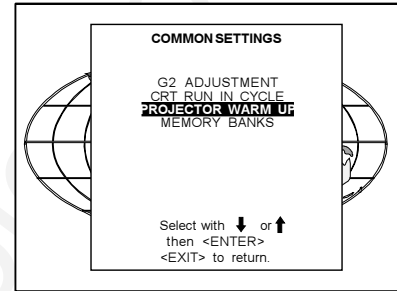
EXIT returns to the Path Selection main menu.



Projector warm up

Highlight 'Projector warm up' by pushing the control disc up or down and press ENTER to select the projector warm up menu.

The projector needs this warm up periode to reach its maximum specifications and to minimize all distortions.

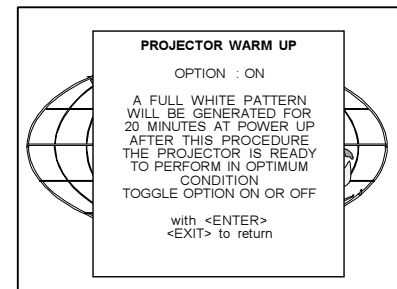


The ON/OFF option can be toggled with the ENTER key.

When in the ON position (and the CRT run in cycle is OFF), the projector can start up with a warm up periode of 20 minutes. During the start up a warm up menu will be displayed. This menu offers the possibility to skip the warm up periode anyway by pressing the EXIT key and offers the possibility to adjust the horizontal and vertical amplitude of this white image with the control disc. During this warm up period, a full white image is shifted on the CRT faceplate to avoid a burn in. Every 30 seconds a text box will be displayed on another place on the screen with the remaining time to go.

When EXIT is pressed during this warm up periode, the warm up menu will be redisplayed with the remaining time indication. Press another time EXIT to interrupt the warm up cycle.

When the warm up option is OFF, when switching on the projector, it starts immediately with the projection of the selected source.



I2C Diagnostics

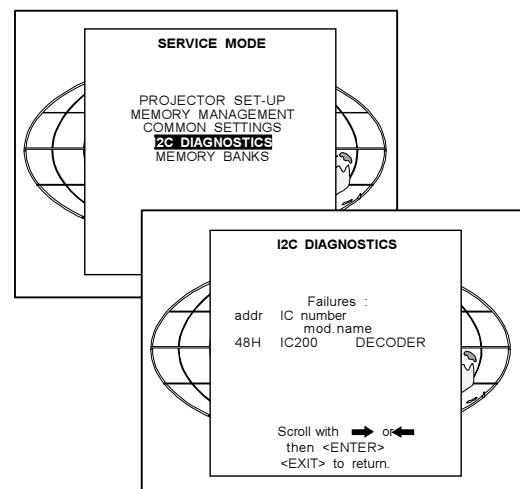
Highlights 'I2C Diagnostics' by pushing the control disc up or down and press ENTER.

The I2C diagnostics menu gives an overview of the I2C failures inside the projector.

To scroll through the failure list, push the control disc up or down. The I2C address, IC number and module name will be given in I2C diagnostic menu.

When no errors are detected, the following message will appear on the screen :

"No errors on i2c-bus detected".



Memory banks

The user has the possibility to create 8 different memory banks for each source. But, the maximum allowed quantity of memory banks for all sources together is 32.

The option to create different memory banks for the same source can be switched ON or OFF.

Highlight *Memory Banks* and press **ENTER** to toggle between ON and OFF.

ON : different memory banks available.

OFF : only one memory bank available.

If different memory banks are available for a source and the memory bank option is toggled to OFF, only the first memory bank will be used to display the source.

How to create a new memory bank ?

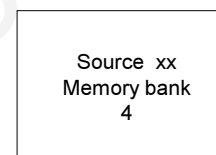
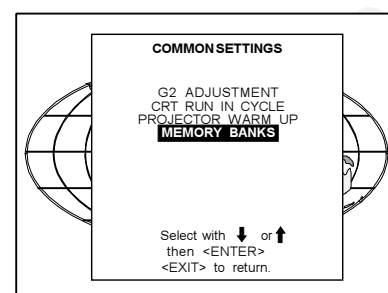
- Select your source. The projector selects the last used memory bank.
- Press **ENTER** and push the corresponding digit (between 1 and 8) of a non existing memory bank. (The memory banks can be created in random order, e.g. first creating bank 5 and later bank 2.)
- Make the necessary adjustments. When leaving the source, the new created memory bank will be saved for later use.

Example : When source 1, video 15.6 kHz /60Hz is create on bank 4 and the vertical frequency changes to 50Hz, the projector will create a new block (due to the vertical frequency change) with the same bank number 4.

How to recall a specific memorybank for the actual source ?

When the memory bank option is ON and a source is selected, this source will be displayed with the last used memory bank settings. An on-screen menu will give a indication of the memory bank nummer used. To switch to another memory bank :

- Press **ENTER** to select the next memory bank in increasing order.
 - or
 - Enter the number of the desired memory bank with the digit keys.
- In both cases, the on-screen indication will be update.



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8

MESSAGES, WARNINGS AND FAILURES

INPUT 01
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.

WARNING :

**invalid
code entry**

Message when the entered password is wrong.

SOURCE 01

Announcement of the selected source.

WARNING :

**end of ad-
just range**

End of adjustment range.

**enter
password
x x x x**

Message to enter your password. Password contains 4 digits.

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*'.

text on

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

WARNING :

**input se-
lector not
available**

It warns you to check the power connection or the power status of the RCVDS.

Next message will appear immediately on the screen : '*go to stand-by*'.

text off

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

WARNING :

**invalid
frequency
input**

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

**PROJECTOR
ADDRESS:
003**

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

**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.

WARNING :

**input not
available**

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

FAILURE

**I2C error
addr. : 7FH3**

Hardware failure. Call a qualified service technician for repair.

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.

FAILURE

**short
circuit on
I2C bus**

Hardware failure. Call a qualified service technician for repair.

WARNING :

**invalid
key entry**

When a wrong key is pressed on the RCU.

**FAILURE
RCVDS com-
munication
error**

Serial communication error between the RCVDS and the projector.

**FANFAILED
Projector
will
switch off**

Message when one of the fans are not working anymore. Projector switches to stand-by

9

OPTIONS

IR Receiver 800

This infrared receiver unit makes it possible to control the projector from another room.

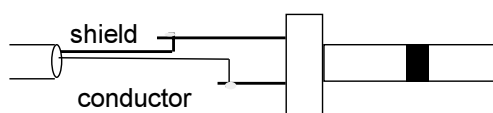
There is a communication line with cable between the IR receiver and the projector or the RCVDS05. The control information from the RCU can now be sent to this IR receiver.

The IR receiver 800 displays the selected source on a 7-segment display.

Order number : R9827515

Hardwired RCU.

The control signals from the RCU can be sent to the projector via a wired connection.



Preparing your remote cable :

Use a shielded cable with a maximum length of 100 m and two mini-jack 3.5 mm connectors (order number : R3131991).

- Peel back the vinyl covering of the cable on both sides and twist the wire core.
 - Solder a jack plug as shown in drawing above to each end of the cable.
- shield = ground
conductor = data information

When the cable is ready, plug one side in the remote control and the other side in the connector on the rear of the projector labelled 'remote'.

Projector Control software

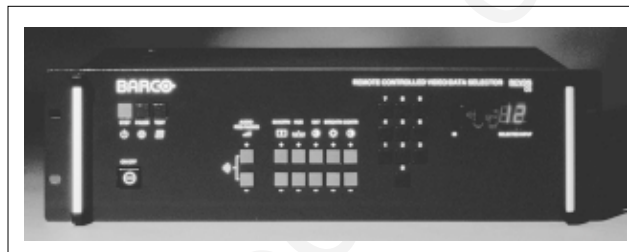
The software is user-friendly and makes full use of : mouse control, pull down menus and dialog boxes.

Two main applications are available with this software : remote control and transferring and receiving data of projector settings.

Remote Control Simulation. Advantage : address range 0 to 255.

Adjustment Data : Where can it be located when a IBM PC (or compatible) or MAC or Workstation is connected :

- Hard memory device with files of settings.
- The contents of the local memory of the computer.
- The contents of the projector.

RCVDS 05 Source Selector

An optional RCVDS05 makes it possible to connect up to 20 sources to the projector. When RCVDS's are linked via the expansion module, even 90 inputs can be connected to the projector.

The selected source number will be displayed on a 2 digit display and the selected input module will be indicated with a LED on the rear.

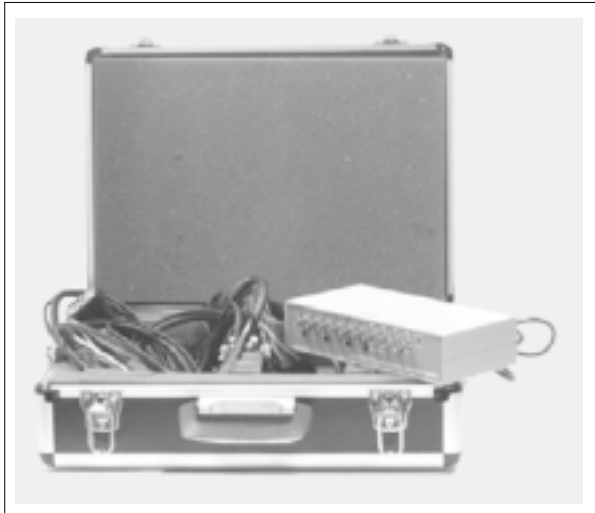
Order Numbers RCVDS 05:	110V:	9827888
		9827889
	220V:	9827880
		9827881

VS05 Switcher

The VS05 is a versatile Video and HDTV source selector for all BARCO's digitally controlled large screen projectors. It offers the possibility to connect and switch up to 5 different Video sources, 3 different S-Video sources and 1 RGB Analog source to a BARCO projector. In addition, the audio signal proper to the source, can be switched to an audio amplifier.

Order Numbers:	110V:	9827890
	220V:	9827899

MAGIK Interface



Multifunctional Analog Graphics Interface Kit.

BARCO's MAGIK interface allows the user to connect a presentation device such as a projector or a professional monitor to any computer with analog video signal with or without maintaining the connection with its own display. The MAGIK interface buffers and amplifies any RGB analog signal with TTL or analog sync without signal loss or image degradation.

The MAGIK can be delivered together with connection cables for PC, MAC, SUN or workstation in a nice handbag case.

Order numbers MAGIK with cables and case :

R9828120 (230V)

R9828129 (120V)

Order number MAGIK only :

R9828121 (230V)

R9828128 (120V)

Adapter and communication cables

BARCO provides several cables to connect peripheral equipment to the projector.

a. D9-D9 communication cable

- To connect an IBM PC (or compatible) to the projector.
- To connect a RCVDS05 to the projector.
- To connect a IR receiver to the RCVDS05 to the projector.
- To be used as extension cable for all other adapter cables.

Available length : 5 m (16ft), order number R982770; 15 m (50ft), order number R9827560; and 30 m (100ft), order number R9827570

b. Din Mini8-D9 adapter cable.

- To connect a Macintosh computer to the RETROGRAPHICS 808s.
- Available length : 1 m (3,2 ft), order number R9827640.

c. D25-D9 adapter cable

- To connect a workstation to the RETROGRAPHICS 808s.
- Available length : 1 m (3,2 ft), order number R9827630

d. 5 BNC to 5 BNC cable

- To connect an analog source to the BNC input of the projector
- Available length : 60 cm, order number R9828260
 150 cm, order number R9828261
 5 m, order number R9828262
 15 m, order number R9828263

Orbiting Kit

Static pictures are very often shown on large screen projectors, especially in process control and presentation applications. Due to the fact that the same picture information is shown for a long period in the same place, picture tubes can be damaged by 'local burn-in'. To reduce this problem, a special Orbiting circuit is available which moves the picture very slowly around a predefined screen area. The cycle time is very long to make the movement of the projected image imperceptible.

The use of the orbiting kit is described in appendix A in the installation manual.

Order number : R9827780

Line Doubler Kit

BARCO's line doubler kit consists of a video decoder with a three-line adaptive Comb filter, an enhancement circuit and the line doubler itself.

- The three-line adaptive Comb filter improves color transitions and reduces noise in the video signal.
- The enhancement circuit integrated in the decoder provides sharper images with clearer outlines.
- The line doubler circuit reduces visible line structure by doubling the number of lines of the video image.

These three circuits work in unison to produce a smoother yet sharper image which is significantly more appealing when watching video images.

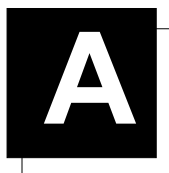
Order number : R9828161

Ceiling mount CM50

This suspension system enables to mount any projector from the BARCO 700 series to the ceiling without using any mechanical interface, and to adapt the projector perfectly to the local mounting requirements.

Order number CM50 with pulley : R9827990

Order number CM50 without pulley : R9827991.



ADJUSTMENT BLOCKS AND SOURCE NUMBERS 90 - 99

Adjustment Blocks (memory blocks)

As the projector is digitally controlled, all geometry and convergence adjustments are stored in the projector's memory as numeric values. These numeric values are used to control digital potentiometers which in turn, control the projector. Each source connected to the projector has a unique set of adjustment data which is automatically downloaded into the projector's digital potentiometers once the source has been selected. This set of adjustment data is referred to as an "adjustment block".

An adjustment table is automatically created for a source when the source is first connected to the projector and the Adjustment mode is entered. If other sources have already been connected to the projector and geometry and convergence adjustments have been performed on these sources, the projector will use Linear Digital Interpolation to create a new block for the new source. This block will provide an initial set of adjustments for the new source that have been calculated by the projector from "previous experience".

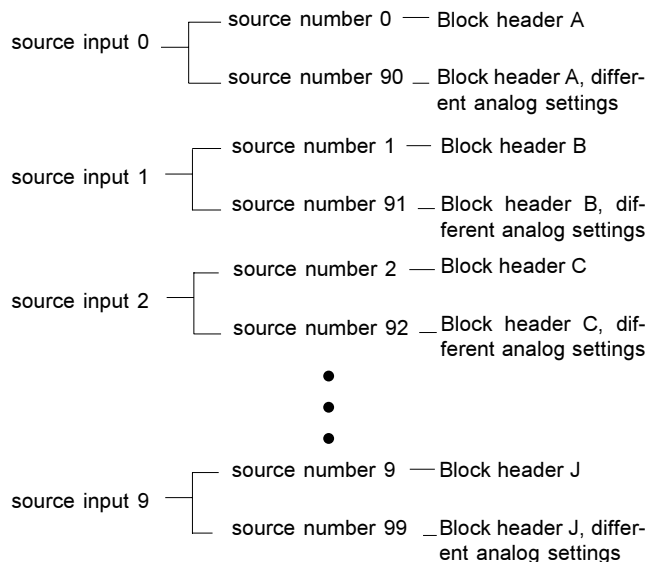
The projector's memory has the capacity to store 32 adjustment blocks. The adjustment block consists of two parts, the block header and the data representing the values for all adjustments (eg. Convergence and Geometry) in the projector for the source the block corresponds to. The block header contains the basic characteristics of the source and the projector configuration used to display the source.

Block Header	example of block header
Block Number	01
Source Number	01
Horizontal Frequency	15.6 kHz
Vertical Frequency	50 Hz
Input Type	video
Scan Switch Configuration	Front/Ceiling

The data representing the various adjustments for the source follows the block header.

Source numbers 90 - 99

Source numbers 90 - 99 do not correspond to physical inputs to the projector or RCVDS. They are used to assign an additional adjustment block to a source. This additional adjustment block may contain different geometry and convergence settings, sync fast/slow positions and enhanced blue on/off settings. The relationship between source numbers 0 - 9 and 90 - 99 (projector with RCVDS) or 1 - 5 and 91 - 95 (stand-alone projector) is shown in the diagram below.



The alternate adjustment block for sources 0 - 9 (projector with RCVDS) or 1 - 5 (stand-alone projector) is activated by selecting the corresponding source number 0 - 9 (projector with RCVDS) or 1 - 5 (stand-alone projector). Once this source number is selected, the alternate block of adjustment data is in use and may be modified via the adjust mode of the projector. The alternate adjustment block is automatically stored.

Follow the steps below to create a second adjustment block for a source between 0 and 9.

1. Select the source between 0 and 9 that the second adjustment block is to be created for.

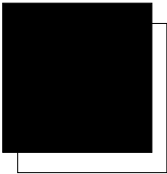
2. Select the corresponding source number between 90 and 99. The adjustment block for the source number between 0 and 9 is copied to the corresponding source number between 90 and 99.

3. Enter the adjust mode and make any desired changes (geometry, convergence, sync fast/slow, enhanced blue on/off) to the second adjustment block.

4. Exit the adjust mode.

Note : the above also applies to source number 1 - 5 and 91 - 95 of a stand alone projector (no RCVDS)

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INSERT CARD



RCU	
INPUT SOURCES	
PROJECTOR	
1	
2	
3	
4	
5	
6	
7	

INPUT SOURCES	
RCVDS	
1	
2	
3	
5	
6	
7	
8	
9	
10	

RCU	
INPUT SOURCES	
PROJECTOR	
1	
2	
3	
4	
5	
6	
7	

INPUT SOURCES	
RCVDS	
1	
2	
3	
5	
6	
7	
8	
9	
10	

