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BARGO

BARCO PROJECTION SYSTEMS



BARGO Ciné



R9002380-R9002381-R9002382 R9002387-R9002388-R9002389

SCOUNT-METOWNER'S MANUAL 800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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SAFETY INSTRUCTIONS

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:

Safety indication on the product



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 TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES



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.

Safety 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

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:

BARCOCINE 7 Art. No. R9002380/81/82 (230V AC) BARCOCINE 7 Art. No. R9002387/88/89 (120V 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.)



ANSI 73.11

A. 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)

B. Power cord with ANSI 73.11 plug:

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

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



- 3. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord. To disconnect the cord, pull it out by the plug. Never pull the cord itself.
 - 4. If an extension cord is used with this product, make sure that the total of the ampere ratings on the products plugged into the extension cord does not exceed the extension cord ampere rating. Also make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.
 - 5. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electrical shock.

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

6. 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:

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

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

Safety check - Upon completion of any service or repairs to this projector, ask the service technician to perform safety checks to determine that the 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 benzine, or abrasive cleaners, since these
 will damage the cabinet.
- To ensure the highest optical performance and resolution, the projection lenses are specially treated with an anti-reflective coating, therefore, avoid touching the lens. To remove dust on the lens, use a soft dry cloth. Do not use a damp cloth, detergent solution, or thinner.

On repacking

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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.



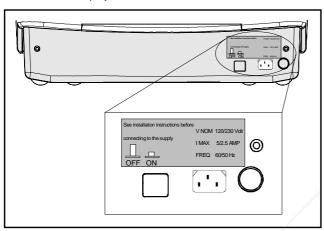


CONNECTIONS

Power Connection to Projector

AC 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

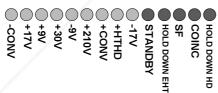
The projector can start now in the 'operational mode' (image displayed) or in the 'stand by mode', depending on the software setup.

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



Input Source Connection



- Composite Video (*)
- S-Video (*)
- RGBS or RGsB (*)
- RGB3S or RG3sB

TRU-(R-Y)Y(B-Y)S or (R-Y)Ys(B-Y) [component input] (*) TOR LAMPS AND ACCESSORIES

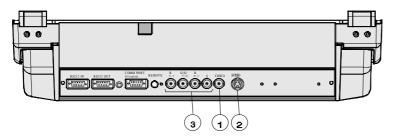
- (R-Y)Y(B-Y)3S or (R-Y)Y3s(B-Y) [component input] (**)

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

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

5976066 BARCOCINE 7 011299

Which source to which input



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.

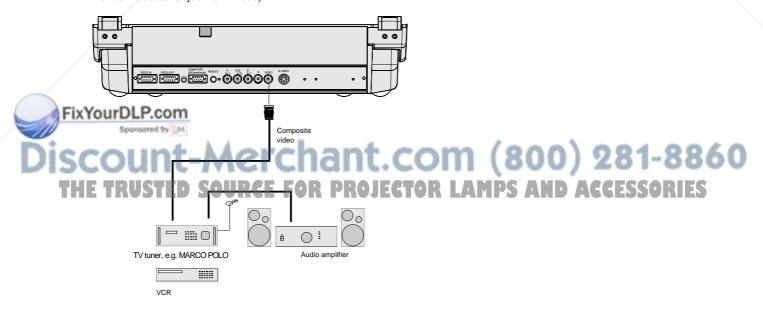
Connecting a Composite Video source.

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

Note:

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

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



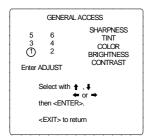
Video input selection :

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 'getting Started'.)

- press ADJUST key, the General access menu is displayed on the screen (menu 1).
- use the cursor keys to highlight 1.
- 3. press ENTER to select the highlighted source.



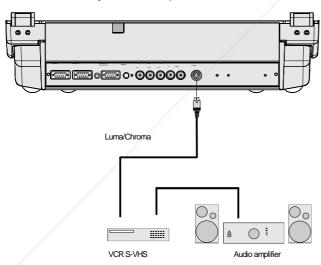
Connecting a S-Video or Video source to port 2.

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

Note:

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

To enable or to disable this function, enter the adjustment mode and change the position of the ON/OFF toggle switch (see chapter '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 'getting Started'.)

press **ADJUST** key, the General access menu is displayed on the screen (menu 1). use the cursor keys to highlight *2*.

com (800) 281-8860 press ENTER to display the source. ECTOR LAMPS AND ACCESSORIES



menu 1

Input Priority setting

Depending on the priority setting in the 'Picture Tuning menu', Video or S-Video can be displayed.

If the setting is not correct, handle as follow:

- 1 Press ADJUST key to start up the adjustment mode. The main menu will be displayed (menu 1).
- 2 Select 'Service Menus'.
- 3 Press ENTER to select.

A warning menu, 'risk of incorrect adjustment', will be displayed (menu 2).

- 4 Press **ENTER** to continue if you are qualified, or **EXIT** if not.
- When ENTER is pressed, the 'Adjustment main menu' will be displayed (menu 3).
- 5 Select 'Random Access'.
- 6 Press ENTER to select.

The 'Choose a setup pattern menu' will be displayed (menu 4).

- 7 Select 'Selected source'.
- 8 Press ENTER to display the 'Random Access' menu (menu 5).
- 9 Select 'Picture Tuning'.
- 10 Press ENTER to display the picture tuning menu (menu 6).
- 11 Select 'Port2: Video'.
- 12 Press ENTER to toggle between VIDEO or S-VIDEO.
- 13 Press ADJUST to return to operational mode.









menu 1



Select with ↑ or ↓ then <ENTER> <EXIT> to return.

COLOR BALANCE
SYNC: FAST
DECODING: EBU
PORT2: VIDEO
LINE DOUBLER: ON

Select with ↑ or ↓
<ENTER> to accept
∠EXIT> to return.

PICTURE TUNING

menu 6

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.

Note:

menu 5

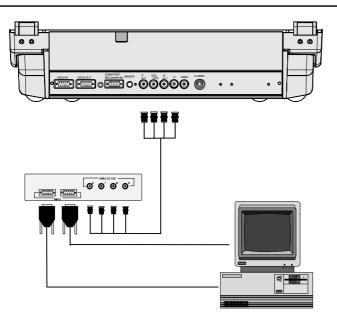
If a line doubler or line multiplier is built in, the default position of this line doubler (multiplier) soft option is ON (active). The video input signal will be displayed as a non interlaced image (= improved image stability).

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

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

BARCO's Interface units.



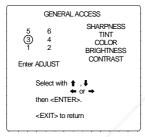


RGBS or RGsB input selection

- 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 'getting Started'.)

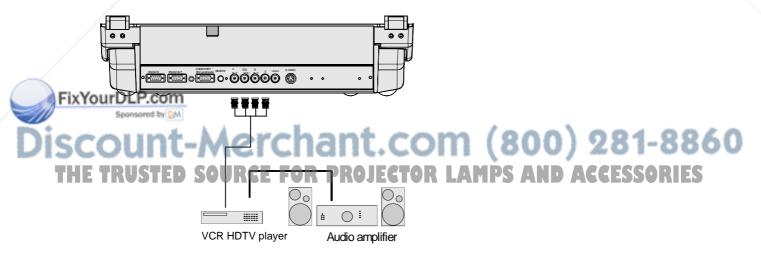
- 1. Press ADJUST key, the General access menu is displayed on the screen (menu 1).
- 2. Use the cursor keys to highlight 3.
- 3. Press ENTER to display the source.



menu 1

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.

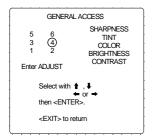


RGB3S or RG3sB input selection

- 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 'getting Started'.)

- Press ADJUST key, the General access menu is displayed on the screen (menu 1).
- Use the cursor keys to highlight 4.
- 3. Press ENTER to display the source.



menu 1

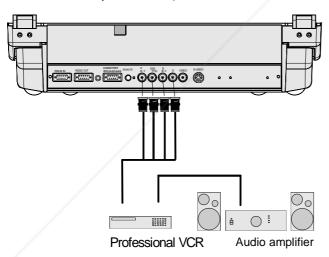
Connecting a Component source.

(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 or multipling is possible for component video input sources on standard line frequency.

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

To enable or to disable this function, enter the adjustment mode and change the position of the ON/OFF toggle switch (see chapter '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 :

then <ENTER>. <EXIT> to return

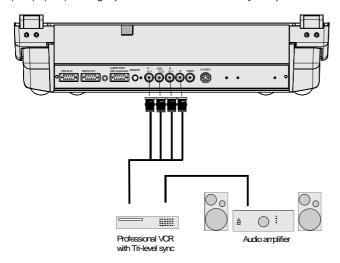
(to gain access to the local keypad, see 'Local keypad' in chapter 'getting Started'.)

- 2. Use the cursor keys to highlight 5.



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.

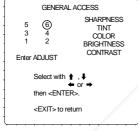


(R-Y)Y(B-Y)3S or (R-Y)Y3s(B-Y) input selection

- 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 'getting Started'.)

- 1. Press ADJUST key, the General access menu is displayed on the screen (menu 1).
- 2. Use the control disk to highlight 6.
- 3. Press ENTER to select the highlighted source.

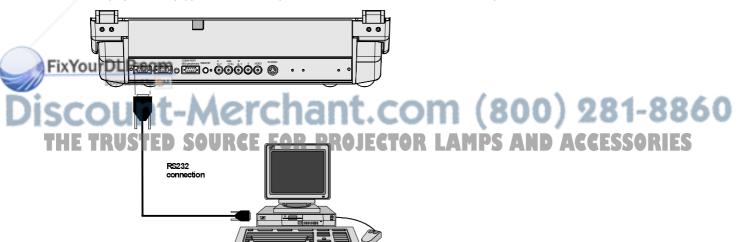


menu 1

RS232 Connection

RS232 input and RS232 output of the projector.

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



Applications

- 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.

Set up of the Baud Rate for Communication with a Computer.

See 'Change Baudrate PC' in chapter 'Service mode'

Communication port for communication with peripherals

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.

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.

Connecting an IR Remote Receiver to the projector.

This infrared 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 control information from the RCU can now be sent to the IR Remote Receiver.

The IR Remote Receiver displays the selected source on a 7-segment display.





GETTING STARTED

Remote Control & Local Keypad

Battery Installation in the RCU

Two batteries are packed together with the RCU. Before using your RCU, install first these batteries.

- 1 Remove the battery cover on the backside by pushing the handle a little towards the bottom of the RCU.
- 2 Lift up the top side of the cover at the same time.
- 3 Insert the batteries as indicated in the RCU.
- 4 Put the battery cover on its place.

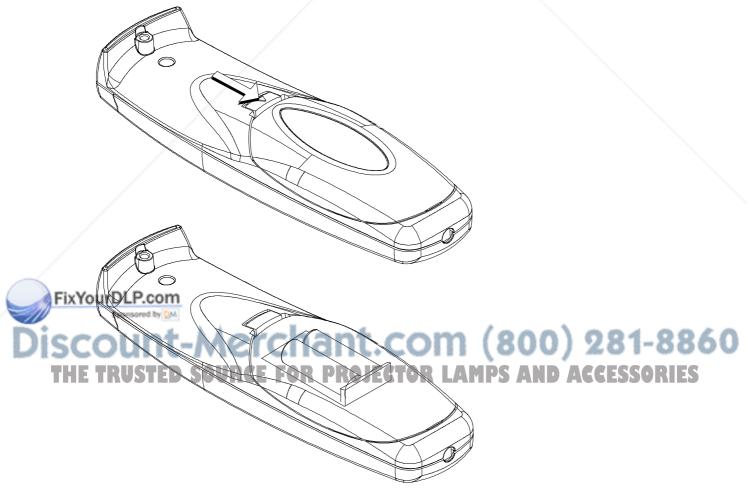
How to replace the batteries in the RCU?

To replace the batteries:

- 1 Remove the battery cover on the backside by pushing the handle a little towards the bottom of the RCU.
- 2 Lift up the top side of the cover at the same time.
- 3 Push on the + side of the battery towards the side
- 4 Lift up the battery at the same time.
- 5 Repeat for the second battery.
- 6 Insert the batteries as indicated in the RCU (battery type AA or LR6 or equivalent).
- 7 Put the battery cover on its place.

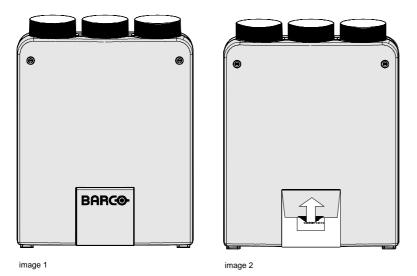
Note, only important if more than one projector is installed in the room:

- 1. the default address is zero (0). If it is necessary to program the projector address into the RCU, see 'Projector Address'.
- 2. projector address has to be reprogrammed everytime the battery is changed, the RCU will always switch to the default address.



Gaining Access to the Local Keypad

The local keypad is covered by a door on which the projector logo is screened (image 1). To open this door, push as indicated on next drawing and turn it to the front side of the projector (image 2).



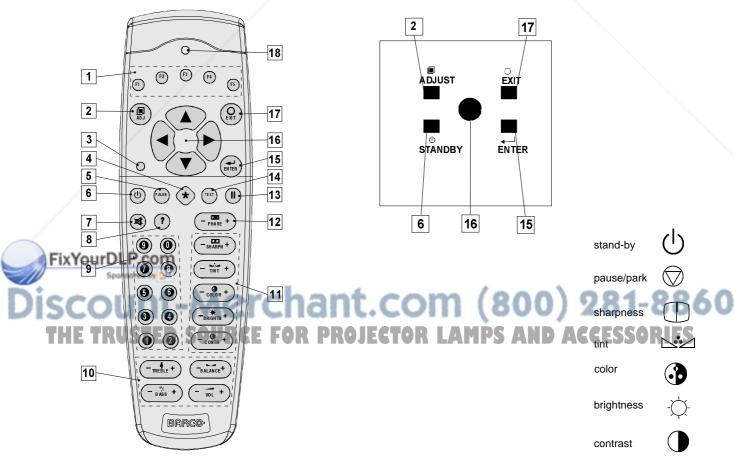
Overview of Functions

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,....)
- settings

Other functions on the control units 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.



- Function keys: user programmable keys with functions for direct access.
- ADJ.: ADJUST key, to enter or exit the adjustment mode. 2
- Address key (recessed key), to enter the address of the projector (between 0 and 9). Press the recessed address key with a pencil, followed by pressing one digit button between 0 and 9.
- Selection key: no function for this projector
- PAUSE: to stop projection for a short time, press 'PAUSE'. The image disappears but full power is retained for immediate restarting.
- STBY: stand-by button, to start projector when the power switch is switched on and to switch off the projector without switching off the power switch.
- Mute: no function in this projector
- **Help:** on line help information (not yet available)
- Digit buttons: direct input selection.
- 10 Audio controls: no function in this projector
- 11 Picture controls: use these buttons to obtain the desired picture analog level.
- 12 PHASE: used to remove the instability of the image.
- 13 FREEZ: press to freeze the projected image.
- 14 TEXT: when adjusting one of the image controls, e.g. contrast, 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.
- 15 ENTER: to start up the adjustment mode or to confirm an adjustment or selection in the adjustment mode.
- 16 Cursor Keys (on RCU) or '+' and '-' keys (cursor keys) on the local keypad : to make menu selections when in the adjustment mode.

Comparision between the cursor keys and the use of the '+' and '-' keys on the local keypad :

RCU = local keypad cursor key up '+' key up cursor key down '-' key down = cursor key right '+' key right cursor key left '-' key left =

Use the '+' and '-' keys (cursor keys): to increase or decrease the analog level of the image controls when they are first selected.

- 17 EXIT: to leave the adjustment mode or to scroll upwards when in the adjustment mode.
- 18 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)

Operating the Projector

Switching on

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

Pressed: ON state Not pressed : OFF state ixYourDLP.com

The projector can start now in :

 Operational mode (picture displayed) Stand by mode

Depending on the software set up the projector starts up in operational mode or stand by mode (see chapter Service mode)

5976066 BARCOCINE 7 011299

Start up in Operational Mode

The projector can start up with the selected source or the projector can start up with a warm up cycle message (menu 1).



menu 1

When this warm up cycle message appears on the screen, the menu offers the possiblity to start with this 20 minutes taking warm up periode (press ENTER) or to skip this cycle (press EXIT).

Note: This warm up periode is built in so that the projector can reach its maximum specifications and minimize all distortions.

When starting 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.

- To interrupt the warm up period, handle as follow:

 1 Press EXIT, the warm up menu will be redisplayed with the remaining time indication.
- 2 Press EXIT again to quit the warm up cycle and to display the source.

Start up in Stand by Mode

The projector starts up in stand by.

Press a digit key corresponding to the desired source or press STBY key. The projector displays the selected source or the warm up cycle message.

When this warm up message appears on the screen, handle as described in 'Start up in Operational Mode'.

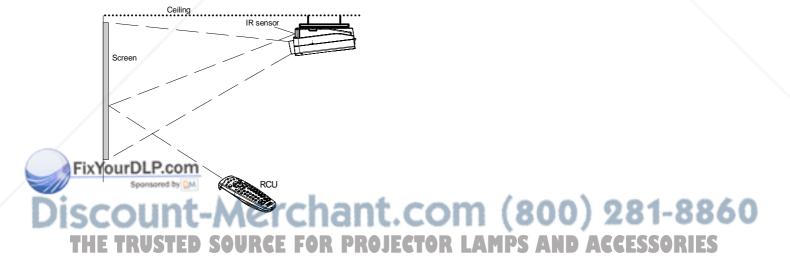
Warning

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

RCU Commands to the Projector

Pointing the RCU to the reflective screen

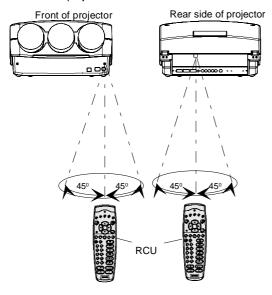
Point the front of the RCU to the reflective screen surface.



Pointing the RCU directly to the IR Sensors

Point the front of the RCU directly at one of the 2 IR sensors of the projector.

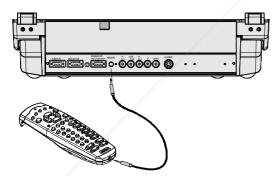
When using the wireless remote control, make sure you are within the effective operating distance (30m, 100ft in a straight line). The remote control unit will not function properly if strong light strikes the sensor window or if there are obstacles between the remote control unit and the projector's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



Hardwired Remote Input

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

Why a projector address?

As more than one projector can be installed in a room, the separate projectors should be separately addressable with a RCU or a computer. So each projector has its own address.

Set up an Individual Projector Address

YourDLP.com

The set up of a projector address can be done via the software.

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.

THE How to control the projector or projectors ? ECTOR LAMPS AND ACCESSORIES

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

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

Note: A projector will respond to a RCU set to the common address ('0' or '1') regardless of what address is set in the projector itself.

Before using the RCU

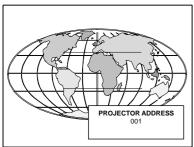
The RCU is default programmed with address 0 or 1, 'common address'. Regarding to the internal wiring of the RCU the default address can be 0 or 1 (call for technical assistance to change the common address setting). With that 'common address' programmed into the RCU, every projector, without exception will listen to the commands given by this RCU. If it is necessary to control a specific projector, than enter the projector address into the RCU (only when that address is between 0 and 9). The projector with the corresponding address will listen to that specific RCU.

Common Address

Every projector has a common address '0' or '1'. The choice between '0' and '1' can be selected in the Service mode.

Display the Projector Address on the Screen.

Press the **ADDRESS** key (recessed key on the RCU) with a pencil. The projector's address will be displayed in a 'Text box' (menu 1). This text box disappears after a few seconds.



To continue using the RCU with that specific address, it is necessary to enter the same address with the digit buttons (address between 0 and 9) within 5 seconds after pushing the address key. For example: if the Address key displays projector address 003, then press "3" digit button on the RCU to set the RCU's address to match the projector's address. Do not press 003 digits. This will address the remote control to '0' and control all projectors in the room.

If the address is not entered within 5 seconds, the RCU returns to its default address (zero address) 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 within 5 seconds after pushing the address key. That address can be any digit between 0 and 9.

Press button

Controling the Projector

Input selection modes

Source No | Projector input

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 THE TRUST (R-Y)Y(B-Y)3S or FO R PROJECTOR LAMPS AND ACCESSORIES			
3 RGBS or RGsB 3 RGB3S or RG3sB 4 3 (R-Y)Y(B-Y)S or (R-Y)Ys(B-Y) 5	1	np. Video 1	
RGB3S or RG3sB 4 3 (R-Y)Y(B-Y)S or (R-Y)Ys(B-Y) 5	2	ideo 2	
3 (R-Y)Y(B-Y)S or (R-Y)Ys(B-Y) 5	3	3S or RGsB 3	
scour (R-Y)Ys(B-Y) rcl 5ant. com (800) 281-88	ourDL	33S or RG3sB 4	
HE TRUST TO THE FOR PROJECTOR LAMPS AND ACCESSORIE	53°°	^{()Ys(B-Y)} rc 5ant. (om (800) 281-88	6
(R-Y)Y3s(B-Y) 6	E TR	YY3s(B-Y) FOR PROJECTOR LAMPS AND ACCESSORIE	5

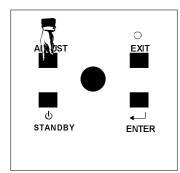
Input Selection via the RCU.

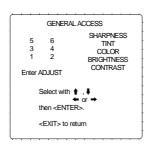
With the digit buttons on the RCU, it is possible to select one of the above input modes.

Input Selection via the Local Keypad.

Handle as follow:

- 1 Press the ADJUST key to display the General access menu (menu 1).
- 2 Highlight the desired source number by pushing the control disc up, down, to the left or the right. 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.
- 3 Press ENTER to confirm your selection.





When the source is selected

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

Source 2 Fh= 15.6 kHz Fv= 50 Hz

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

WARNING 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.

WARNING source not available

Picture controls

The picture controls can be adjusted with:

With 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 - side of the button of the control are pressed.

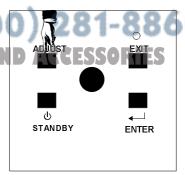
With the local keypad

FIXYOAII controls are hidden in the General access menu.

- 1 Press ADJUST to display the General access menu.
- Use the cursor keys to highlight the desired analog control andPress 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 :

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

The Freeze key (only with line doubler).

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





START UP OF THE ADJUSTMENT MODE

Adjustment Mode

Start Up

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

Using the RCU.

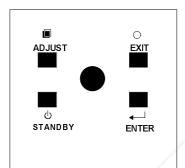
Press the ADJUST key.

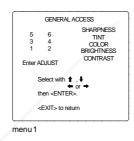
The projector displays the 'Main menu' (menu 2).

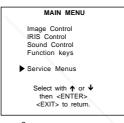
Using the local keypad.

- 1 Press the **ADJUST** key.
- 2 The projector displays the General access menu (menu 1).
- 3 Use the cursor keys (control disc) to highlight enter ADJUST
- 4 Press ENTER.

The 'Main menu' will be displayed (menu 2).







menu 2

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



To adjust an analog control, handle as follow:

- 1 Push the cursor keys (contol disc) up or down to select the analog control to be adjusted.
- 2 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 **FIXYOUTDLP**, to operational mode.

You are now in the 'Adjustment mode'. The cursor keys are 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.

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Possible Paths

Depending on the projector configuration the following paths are possible with the 'Main menu'.

Image Control - Allows to change the color temperature of the image and to select another format (adjustment) for the image.

IRIS-Control - This selection will only be available when the autoconvergence unit IRIS is built in into the projector. This control will allow to align the projector automatically.

Sound Control - Allows to select the sound mode (only when a sound unit is built in).

Function Keys - Gives an overview of the programmed function for each key.

Service Menus - Installation and adjustment menus to set up the projector. Before entering a warning will be displayed.

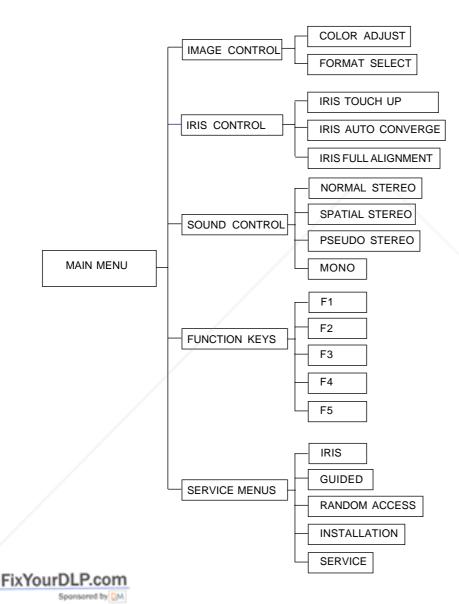


5

MAIN MENU

Main Menu

Overview Flowchart



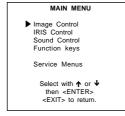
Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

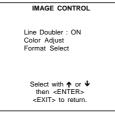
Image Control

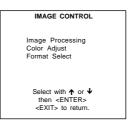
Starting Up

- Push the cursor keys ↑ or ↓ to select 'Image Control' (menu 1).
 The selected item will change in color and a marker will be displayed in front of it.
- 2 Press ENTER to select.

The 'Image Control' menu will be displayed (menu 2a or 2b).







menu 1

menu2a

menu 2b

If a line doubler (LIDO) or line multiplier (LIMO) is built-in, the next text will be displayed in the 'Image Control' menu. When LIDO is available:

Line Doubler : on or off When LIMO is available : Image Processing

Line Doubler (if available)

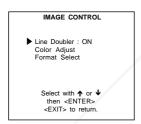
Why line doubling

If a line doubler is built in, the default position is ON. When in the ON position, the video input signals will be displayed as non interlaced images. The stability of the image will improve.

How to enable/disable the Line Doubler

To enable or disable the line doubler, handle as follow:

- 1 Push the cursor keys ↑ or ♥ to select 'Line Doubler' (menu 1)
- 2 Press ENTER to toggle between ON and OFF.



menu 1

Line Multiplier (if available)

Why Line Multiplying

If a line multiplier is built in and in the ON state, video images can be displayed with different line and frame rates. That will improve the video image quality.

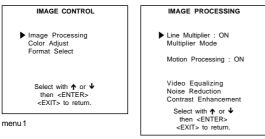


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How to change the Multiplier Setting

To set up the LIMO functions, handle as follow:

- 1 Push the cursor keys ↑ or ♥ to select 'Image Processing' (menu 1)
- 2 Press ENTER to select the 'Image Processing' menu. The Image Processing menu will be displayed (menu 2).



menu 2

Line Multiplier ON/OFF

To switch the line multiplier on/off, handle as follow:

- 1 Push the cursor keys ↑ or ♥ to select 'Line Multiplier' (menu 1)
- 2 Press ENTER to toggle between ON and OFF. When in the ON state, all multiplier functions are selectable.



menu 1

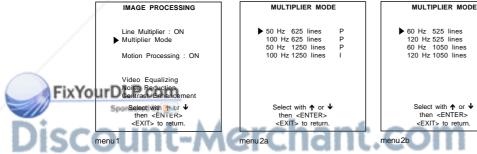
Multiplier Mode

What can be selected within the multiplier mode?

The multiplier menu makes it possible to select different scan rate for the connected video signal.

How to start up the Multiplier Mode menu?

- 1 Push the cursor keys ↑ or ♥ to select 'Multiplier Mode' (menu 1).
- 2 Press ENTER to select and to display the Multiplier Mode menu (menu 2a or menu 2b) Depending on the frequency of the input source, menu 2a or menu 2b will be displayed.



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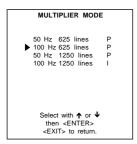
How to change the scan rate?

- 1 Push the cursor keys ♠ or ♥ to select a new scan rate (menu 1).
- 2 Press ENTER to activate this scan rate.

e.g. 100 Hz 625 lines P ==>

Vertical frequency of the image : 100 Hz Quantity of horizontal lines : 625 lines

Interlace mode: P = Non-interlaced image (progressive scan).



menu 1

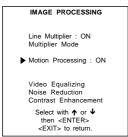
Motion Processing

Why Motion Processing?

With this function it is possible to recognize whether the source material was originally film or video. That prevents the creation of motion artifacts.

How to activate?

- 1 Push the cursor keys ↑ or ▶ to select 'Motion Processing' (menu 1).
- 2 Press ENTER to toggle between ON and OFF.



menu 1

Video Equalizing

What can be done?

The shapness of the image can be adjusted for 3 frequency ranges (low, medium and high) separately.

To make it a little bit easy, 7 pre-programmed factory presets are available. The customer is also free to adjust its own sharpness for the 3 ranges.

How to select Video Equalizing?

- 1 Push the cursor keys \spadesuit or \blacktriangledown to select 'Video Equalizing' (menu 1).
- 2 Press ENTER to display the adjustment menu (menu 2).



How to adjust the Video Equalizing?

- 1 Push the cursor kevs ← or → to select 'Low' or Mid' or 'HI.' or 'Factory Preset : x'
- 2 Push the cursor keys ↑ or ♥ to adjust the sharpness in the choosen band (low, mid, high) or to scroll through the factory preset (x = 1 to 7).

Factory preset 8 is equal to the custom adjustment as made with low, mid and high.

Noise Reduction

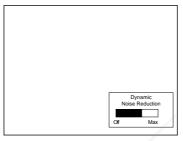
What can be done?

Noisy, lower quality video images can be ameliorated by use of the Noise Reduction feature.

How to select and adjust the Noise Reduction?

- 1 Push the cursor keys ↑ or ♥ to select 'Noise Reduction' (menu 1).
- 2 Press ENTER to display the adjustment text box (menu 2).
- 3 Push the cursor keys ♠ or ♥ to adjust the noise.
- 4 Press ENTER to return to the 'Image Processing' menu.





menu 1

menu2

Contrast Enhancement

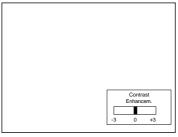
What can be done?

Enhancing the contrast results in a more dynamic image.

How to select and adjust the contrast enhancement?

- 1 Push the cursor keys ↑ or to select 'Contrast Enhancement' (menu 1).
- 2 Press ENTER to display the adjustment text box (menu 2).
- 3 Push the cursor keys ↑ or ♥ to adjust the contrast.
- 4 Press ENTER to return to the 'Image Processing' menu.





menu 1

1 menu2



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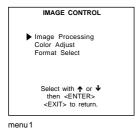
Color Adjust

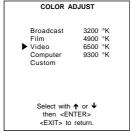
What can be done?

The color temperature of the image can be installed. The customer has the choise between 4 factory preset color temperatures and one custom. This custom color temperature has to be adjusted in the 'Random Access Adjustment Mode'.

How to select 'Color Adjust' and to select a new color temperature?

- 1 Push the cursor keys ↑ or ↓ to select 'Color Adjust' (menu 1).
- 2 Press ENTER to display the Color Adjust menu (menu 2).
- 3 Push the cursor keys \spadesuit or \blacktriangledown to select the desired color temperature.
- 4 Press **ENTER** to activate that color temperature.





menu 1

Format Select

What can be done?

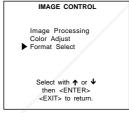
For one source, up to 8 different sets of settings can be stored. A set of settings is called 'Format'. A 'Format' can be 'available' or 'free'.

'Available' when settings are stored in this location.

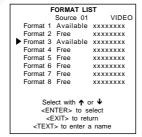
'Free' when no setting are stored in this location. This location can be used for storing new adjustment settings for this source. When 'available', a name of 8 characters can be programmed by the user.

How to select a 'Format' ?

- 1 Push the cursor keys ↑ or ♥ to select 'Format Select' (menu 1).
- 2 Press ENTER to display the Format List (menu 2).
- 3 Push the cursor keys ↑ or ▶ to select the desired 'Format'.
- 4 Press ENTER to select.



menu 1



menu 2

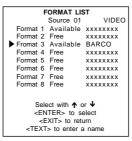


How to add a name to a 'Format'?

- 1 Push the cursor keys ↑ or ♥ to select the Format to which a name has to be added (menu 1).
- 2 Press **TEXT** to display the compose menu (menu 2).
- 3 The position of the character which will be edited, will be indicated with a digit. Push the cursor keys ♠, ♣ or →to select the first character.
- 4 Press **ENTER** to select the choosen character. This character will be inserted on the indicated position. The 'edit character' indication will be incremented with one.
- 5 Continue in the same way for the other characters.
- 6 When the name is completed, press EXIT to return to the 'Format List' menu (menu 3).







menu 1

menu2

menu3

How to store the settings to a new 'Format'?

- 1 Push the cursor keys **↑** or **♥** to select a free format.
- 2 Press ENTER to activate.
- 3 Make any adjustment to the image.
- 4 Quit the adjustment mode by pressing ADJUST. The selected format will change from free to available.

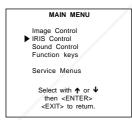
IRIS control

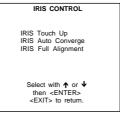
With the IRIS functions it is possible to ameliorate the convergence and alignment of the image.

Start Up

- 1 Push the cursor keys ↑ or ↓ to select 'IRIS control' (menu 1).
 The selected item will change in color and a marker will be displayed in front of it.
- 2 Press ENTER to select.

The 'IRIS control' menu will be displayed (menu 2).



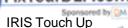


menu 1

menu 2

Note

Before starting one of the IRIS functions, be sure the projector has warmed up for at least 20 min. Only after 20 min the projector has reached its full specifications.

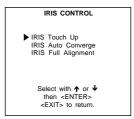


What can be done? erchant.com (800) 281-8860

If you discover in the middle of the image a convergence misalignment between red, green and blue, the static convergence of this currently selected source can be adjusted with the touch up function.

How to start up the IRIS Touch Up?

- 1 Push the cursor keys ↑ or ↓ to select 'IRIS Touch Up' (menu 1).
- 2 Press ENTER to activate the touch up function.
 The process starts and when successfully completed, the projector will return to image display of the current source.



menu 1

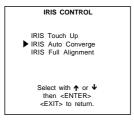
IRIS Auto Converge

What can be done?

The autoconvergence on the current source will be carried out automatically, starting from the existing settings. By projecting alternately red and blue lines, 25 convergence areas are aligned onto the green pattern.

How to start up the IRIS Auto Converge?

- 1 Push the cursor keys ↑ or ↓ to select 'IRIS Auto Converge' (menu 1).
- 2 Press ENTER to activate the autoconvergence function.
 The process starts and when successfully completed, the projector will return to image display of the current source.



menu 1

IRIS Full Alignment

What can be done?

The IRIS full alignment function adjust the geometry of the image (coarse geometry alignment). This procedure takes about 45 seconds.

How to start up the IRIS Full Alignment?

- 1 Push the cursor keys ↑ or ♥ to select 'IRIS Full Alignment' (menu 1)
- 2 Press ENTER to activate the alignment function.
 The process starts and when successfully completed, the projector will return to the IRIS control menu.



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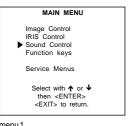
Sound Control

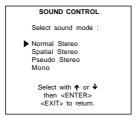
What can be done?

When the sound option is available, the following sound modes can be selected: normal stereo, spatial stereo, pseudo stereo or

How to start up and to select the Sound Control?

- Push the cursor keys ↑ or ♥ to select 'Sound Control' (menu 1).
- Press ENTER to select the Sound Control function. The Sound Control menu will be displayed (menu 2).
- Push the cursor keys ↑ or ↓ to select the desired sound mode (menu 2).
- Press ENTER to activate the chosen sound mode.





menu 1

menu 2

Function Keys

What can be done?

Quick access keys to customer pre-programmed adjustments. Almost any adjustment can be added to a function key. To program a function key, it is necessary to enter into the 'Service Menu'. To activate a function key, just press the corresponding key. The following functions are factory pre-programmed:

F1 = IRIS Touch up

F2 = Convergence Red on Green

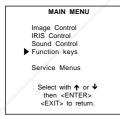
F3 = Convergence Blue on Green

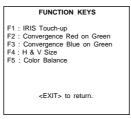
F4 = H & V Size

F5 = Color Balance

How to get an overview of the programmed keys?

- Push the cursor keys ♠ or ♥ to select 'Function Keys' (menu 1).
- Press ENTER to display an overview of the function keys (menu 2).
- Press EXIT to return.





menu 1

menu 2

Service Menus

FixYowhal can ของdone ?

With the complete set of Service menus such as IRIS, Guided, Random Access, Installation and Service it is possible to adjust the projector completely.

When entering the Service Menus, a warning will be displayed mentioning that only qualified service personnel may enter the Service

SOURCE FOR PROJECTOR LAMPS AND ACCESSORI

How to enter the Service Menu?

- 1 Push the cursor keys ↑ or ♥ to select 'Service Menus' (menu 1).
- 2 Press ENTER to select.
 - A warning will be displayed (menu 2). "Risk of incorrect adjustment of the projector. The following SERVICE menus are reserved to and to be performed only by qualified personnel! If qualified, press <ENTER> to continue, or if not, <EXIT> to return.
- 3 If qualified, press ENTER (menu 3). If not qualified, press EXIT

MAIN MENU

Image Control IRIS Control Sound Control Function keys

Service Menus

Select with ↑ or ↓ then <ENTER> <EXIT> to return.

menu 1

WARNING

RISK OF INCORRECT ADJUSTMENT OF THE PROJECTOR.

The following SERVICE menus are reserved to, and to be performed only by qualified personnel!

If qualified, press <ENTER> to continue, or if not, <EXIT> to return.

menu 2

ADJUSTMENT MODE

Select a path from below :

IRIS
GUIDED
RANDOM ACCESS
INSTALLATION
SERVICE
Source 01
Select with ↑ or ↓
then <ENTER>
<EXIT> to return.

menu 3





ENTERING THE SERVICE MENUS

Service menus

What is available in the Service menus?

A complete set of adjustments divided in different modes are available to adjust the projector The different mode are:

IRIS: to autoalign and autoconverge the projector.

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

Random Access: Random Access should be selected if the user intends to make only a few adjustments or if the user is highly qualified and knows the sequence of adjustments.

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

Service: Service should be selected if the user intends to change predefined settings.

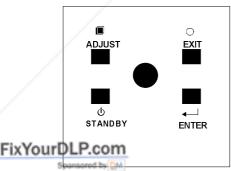
How to enter the Service Menus?

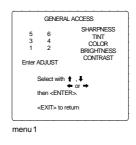
Using the RCU.

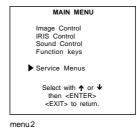
- Press the ADJUST key. The projector displays the 'Main menu' (menu 2).
- Push the cursor keys ↑ or ↓ to select 'Service Menus'
- Press ENTER to select.
 - A warning will be displayed (menu 3).
- If qualified, press ENTER to continue The Service menus main menu will be displayed (menu 4).

Using the local keypad.

- Press the ADJUST key.
- The projector displays the General access menu (menu 1). 2
- Use the cursor keys (control disc) to highlight enter ADJUST
- Press ENTER.
 - The 'Main menu' will be displayed (menu 2).
- Continue as described in 'using the RCU'.









menu3

ADJUSTMENT MODE (800) 281-8860 ect a path from below MPS AND ACCESSORIES INSTALLATION SERVICE

Source 01 Select with ↑ or ↓
then <ENTER>
<EXIT> to return.

menu 4

Password Protection

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

enter password xxxx

Entering the password

Your password contains 4 digits.

Entering via the RCU

Enter the digits with the numeric keys on the RCU.

Example: 2319

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

When the password is correct, you gain access to the selected item.

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

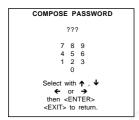
Entering via the local keypad

When the 'compose password' menu is displayed (menu 1)

- 1 select with the control disc the first digit of your password.
- 2 Press ENTER to select.
- 3 select the next digit of your password
- 4 Press ENTER to select.
- 5 Handle in the same way for the third and fourth digit.

When the password is correct, you gain access to the selected item.

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



menu 1

Remark:

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





RANDOM ACCESS ADJUSTMENT MODE

Random access adjustment mode.

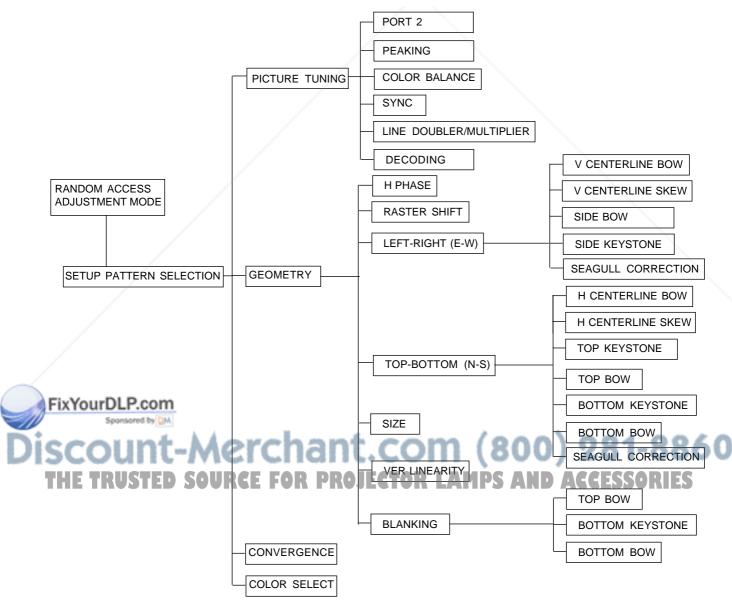
Starting Up

Push the cursor keys 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.



Overview Flowchart



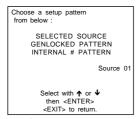
Selecting Setup Pattern

Set up of the Selected Setup Pattern?

If an external source is connected to the projector, menu 1 will be displayed.

To select the desired setup pattern, handle as follow:

- 1 Push the cursor keys ↑ or ♥ to highlight the desired setup pattern
- 2 Press ENTER to select.



menu 1

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)

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

When using the 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.

Factory Preset Frequencies

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

To select a desired cross hatch frequency, handle as follow:

- 1 Push the cursor keys \uparrow or \checkmark to highlight the desired cross hatch frequency (menu 1).
- 2 Push the cursor keys ← or → to scroll to another page.
- 3 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
               HDTV EUREKA
    31.2/50
    31.5/60
               HDTV ATV
    33.7/60
               HDTV HIVISION
    15.8/60
               EGA 1
    21.8/60
               EGA 2
    31.5/60
               VGA 3
31.5/60
Fix 135.5/87
    44.2/70
               Super VGA 2
```

Super VGA 1
Super VGA 3
APOLLO

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menu 1

48.5/60 61.0/76 63.9/76

Random access adjustment mode selection menu.

What is possible?

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 for RGB inputs)

Color Balance Decoding

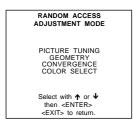
Port 2: Video/S-Video

Peaking: Off

Line Doubler / Multiplier

- Geometry
- Convergence
- Color select

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



Picture Tuning

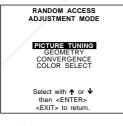
Start up the Picture Tuning

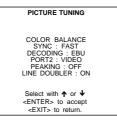
- Push the cursor keys \spadesuit or \blacktriangledown to highlight *Picture tuning* (menu 1).
- Press ENTER.

The Picture tuning menu will be displayed.

Depending on the input source, the 'Picture tuning' menu will display different items (menu 2).

- Color Balance
- Sync slow/fast
- Port 2 : Video/S-Video
- Peaking: Off
- Line doubler
- Decoding : IRE/EBU





menu 2



Color Balance ant.com (800) 281-8860 What can be done?

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.

How to select the Color Balance?

- Push the cursor keys ↑ or ↓ to highlight 'Color Balance' (menu 1). 1
- 2 Press ENTER to select.

The color balance menu will be displayed (menu 2).

PICTURE TUNING COLOR BALANCE SYNC : FAST DECODING : EBU PORT2 : VIDEO PEAKING : OFF LINE DOUBLER : ON

Select with ↑ or ↓ <ENTER> to accept <EXIT> to return.

menu 1

COLOR BALANCE FIXED COLOR BALANCE 3200 4900 6500 9300 CUSTOM WHITE BALANCE RED & BLUE GREEN CUSTOM BLACK BALANCE RED & BLUE GREEN Select with arrow keys then <ENTER> You can
adjust red with ↑ or ↓
Blue with ← or →
<EXIT> to return

Fixed Color Balance

To select a fixed color balance, handle as follow:

- 1. Highlight one of the 4 preprogrammed color temperatures with the cursor keys and
- press ENTER to display the image with the desired color balance.

menu2

Custom Color Balance.

Select adjust the custom white balance as follow:

- 1. Push the cursor key ↑, ♥, ← or → to select 'Red & Blue' below Custom Color Balance (menu 1).
- 2. Press ENTER to activate the adjustment.
- 3. Push the cursor key ♠ or ▶ to adjust the red gain
- 4. Push the cursor key → or ← to adjust the blue gain.

A bar scale indicates the amount of adjustment.

- 5. Press ENTER to return to the Color Balance menu.
- 6. Push the cursor key ↑, ♦ or → to select 'Green' below Custom Color Balance (menu 2).
- 7. Press **ENTER** to activate the adjustment.
- 8. Push the cursor key ↑ or ▶ to adjust the green gain.
- Press ENTER to return to the Color Balance menu.

Select custom black balance as follow:

- 1. Push the cursor key \uparrow , \checkmark or \rightarrow to select 'Red & Blue' below 'Custom black balance' (menu 3).
- 2. Press ENTER to activate the adjustment.
- 3. Push the cursor key \spadesuit or \blacktriangledown to adjust the red cut-off
- Push the cursor key → or ← to adjust the blue cut-off.
- Press ENTER to return to the Color Balance menu.
- 6. Push the cursor key ↑, ♥, ← or → to select 'Green' below 'Custom black balance' (menu 4).
- 7. Press ENTER to activate the adjustment.
- 8. Push the cursor key ↑ or ▶ to adjust the green cut-off.
- 9. Press ENTER to return to the Color Balance menu.

When the color balance is adjusted, press EXIT to return.





COLOR BALANCE





SOURCE FOR PROJECTOR LAMPS AND ACCESSORI

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

What can be done?

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

The sync slow/fast function is only available for RGB sources.

How to setup the sync function?

To change the Sync setting, handle as follow:

- 1. Push the cursor keys ↑ or ↓ to select Sync (menu 1)
- 2. 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.



menu 1

Decoding

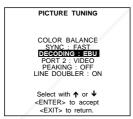
What can be done?

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.

How to set up?

- To change the decoding setting, handle as follow : 1. Push the cursor key \spadesuit or \blacktriangledown to select to select Decoding (menu 1).
- Press ENTER to toggle between IRE and EBU.



Port 2: Video or S-Video

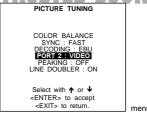
What can be done?

Port 2 can be used as a Video or S-Video input.

How to configure port 2?

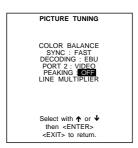
To change the Port 2 setting, handle as follow: Push the cursor key ↑ or ↓ to select Port 2 (menu

2. Press ENTER to toggle between Video and S-Video.



Switching Peaking ON/OFF

- 1. Push the cursor key ♠ or ♥ to select *PEAKING: OFF* (menu 1).
- ENTER to toggle between PEAKING: ON and PEAKING: OFF. Peaking will sharpen the contures of a projected image. When making new adjustments for a RGB source PEAKING is switched to OFF.



Line Doubler/Line Multiplier

What can be done?

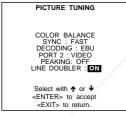
This menu item is only available when the projector is equipped with a line doubler or line multiplier. Line doubling or multiplying is only possible for Video, S-Video, Component Video images on standard line frequency and RGB signals

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

How to select when a line doubler or line multiplier is built in?

To toggle the line doubler setting:

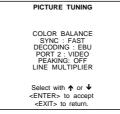
- Select LINE DOUBLER with ↑ or ↓ (menu 1).
- Press ENTER to toggle between ON and OFF.



menu 1

- 1. Push the cursor key ↑ or ♥ to select Line Multiplier (menu 1).
- Press ENTER to select.

The line multiplier menu will be displayed (menu 2).



menu 1

LINE MULTIPLIER : ON MOTION PROCESSING : ON OUTPUT MODE VIDEO EQUALIZING NOISE REDUCTION CONTRAST ENHANCEMENT ADVANCED SETTINGS Select with ↑ or ↓ then <ENTER> <EXIT> to return.

IMAGE PROCESSING

Switching the multiplier ON/OFF

 Push the cursor key ↑ or ♥ to select Line Multiplier (menu 1).
 LINTER to toggle between 'Line Multiplier : ON' and 'Line Multiplier : OFF'. When the line multiplier is on, all items in the menu are accessible.



IMAGE PROCESSING

menu 1

Motion Processing

Why Motion Processing?

With this function it is possible to recognize whether the source material was originally film or video. That prevents the creation of motion artifacts.

How to activate?

- 1 Push the cursor keys ↑ or ♥ to select 'Motion Processing' (menu 1).
- 2 Press ENTER to toggle between ON and OFF.



menu 1

Output Mode

What can be done?

Within the output mode menu, it is possible to select a new output mode for a given input signal. The input signal can be line multiplied, interlaced are non-interlaced.

How to select a new scan rate?

- 1 Push the cursor keys ↑ or ▶ to select 'Output Mode' (menu 1).
- 2 Press ENTER to display the output mode menu (menu 2a or 2b)
 Depending on the frequency of the input source, menu 2a or 2b will be displayed.
 If your input signal is PAL or SECAM signal, menu 2a will be displayed. If it is a NTSC signal, menu 2b will be displayed.

IMAGE PROCESSING

LINE MULTIPLIER: ON MOTION PROCESSING: ON

OUTPUT MODE

VIDEO EQUALIZING NOISE REDUCTION CONTRAST ENHANCEMENT

ADVANCED SETTINGS

Select with ↑ or ↓
then <ENTER>
<EXIT> to return.

LINEMULTIPLIER
OUTPUT MODE

50Hz 625 Lines NI
100hz 625 Lines NI
100Hz 1250 Lines NI
100Hz 1250 Lines I

Select with ↑ or ↓
then <ENTER>
<EXIT> to return.

LINEMULTIPLIER
OUTPUT MODE

60Hz 525 Lines NI
120hz 525 Lines NI
120hz 1050 Lines NI
120Hz 1050 Lines I

Select with ↑ or ↓
then <ENTER>
<EXIT> to return.

menu1 me

menu2b

- 3 Push the cursor keys \spadesuit or \blacktriangledown to select a new scan rate (menu 3).
- 4 Press ENTER to activate this scan rate.

e.g. 100 Hz 625 lines P ==>

Vertical frequency of the image: 50 Hz Quantity of horizontal lines: 625 lines

FIXYOURDLP Onterlace mode : NI = Non-interlaced image (progressive scan).



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Select with ↑ or ↓ then <ENTER> <EXIT> to return.

menu 1

Video Equalizing

What can be done?

The shapness of the image can be adjusted for 3 frequency bands (low, medium and high) separately.

To make it a little bit easy, 7 pre-programmed factory presets are available. The customer is also free to adjust its own sharpness for 3 bands.

How to select Video Equalizing?

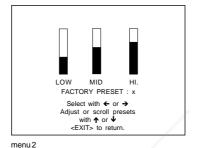
- 1 Push the cursor keys \spadesuit or \blacktriangledown to select 'Video Equalizing' (menu 1).
- 2 Press ENTER to display the adjustment menu (menu 2).

How to adjust the Video Equalizing?

- 1 Push the cursor keys ← or → to select 'Low' or Mid' or 'HI.' or 'Factory Preset : x'
- 2 Push the cursor keys ↑ or ♥ to adjust the sharpness in the choosen band (low, mid, high) or to scroll through the factory preset (x = 1 to 7).

Factory preset 8 is equal to the custom adjustment as made with low, mid and high.





menu1

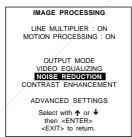
Noise Reduction

What can be done?

Noisy, lower quality video images can be ameliorated by use of the Noise Reduction feature.

Anwahl und Einstellung der Rauschunterdrückung

- 1 Wählen Sie NOISE REDUCTION mit ↑ oder ↓ (Menü 6e).
- 2 Rufen Sie mit ENTER das Textfeld zur Einstellung auf (Menü 9).
- 3 Stellen Sie die Rauschverminderung mit ↑ und ✔ ein.
- 4 Kehren Sie mit ENTER zurück zum Menü IMAGE PROCESSING.





menu 1

menu2



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Contrast Enhancement

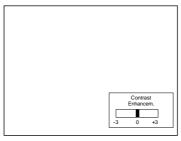
What can be done?

Enhancing the contrast results in a more dynamic image.

How to select and adjust the contrast enhancement?

- Push the cursor keys \spadesuit or \blacktriangledown to select 'Contrast Enhancement' (menu 1).
- Press ENTER to display the adjustment text box (menu 2).
- Push the cursor keys \spadesuit or \blacktriangledown to adjust the contrast.
- Press ENTER to return to the 'Image Processing' menu.





menu 1

menu 2

Advanced Settings

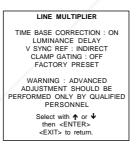
How to select the Advanced Settings?

- Push the cursor key ↑ or ↓ to select 'Advanced Settings' (menu 1).
- Press ENTER to select.

The advanced Settings menu will be displayed (menu 2).

A warning is displayed in the advanced settings menu: "Advanced adjustment should be performed only by qualified personnel".





menu 1

menu2

Time Base Correction

Why Time Base Correction?

With the Time Base Correction function it is possible to clean-up low quality videotape noise to obtain a more stable image.

How to activate?

- Push the cursor keys ↑ or ♥ to select 'Time Base Correction' (menu 1).
- Press ENTER to toggle between ON and OFF.



menu 1

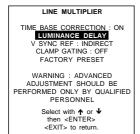
Luminace Delay

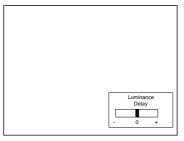
When is it necessary?

When a color shift is recognized on the screen. e.g. if color bars are projected and a line between the color is recognized.

How to adjust?

- 1. Push the cursor key \spadesuit or \blacktriangledown to select 'Luminance delay' (menu 1).
- 2. Press ENTER to activate.
- 3. Push the cursor key ↑ or ♥ to adjust the luminance delay until the color shift is eliminated (menu 2).
- 4. Press ENTER to return to the 'Advanced Settings' menu.





menu 1

menu 2

Vertical Sync Reference

Why necessary?

e.g. When spooling a tape and start playing the image, it is possible that the image still rolls for ±2 frames. This can be avoid by changing the vertical sync reference to direct.

How to change the vertical sync reference?

- 1. Push the cursor key ↑ or ♥ to select 'V Sync Ref' (menu 1).
- Press ENTER to toggle between 'direct' and ' indirect'. Default position : indirect.

LINE MULTIPLIER

TIME BASE CORRECTION: ON LUMINANCE DELAY
V SYNC REF: INDIRECT
CLAMP GATING: OFF
FACTORY PRESET

WARNING: ADVANCED
ADJUSTMENT SHOULD BE
PERFORMED ONLY BY QUALIFIED
PERSONNEL

Select with ↑ or ↓
then <ENTER>
<EXIT> to return.

Menü 11c

Clamp Gating

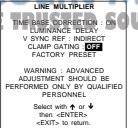
Why necessary?

When Time Base Correction is ON, Clamp gating should be set to ON (caution: Set H sync ref. to indirect). Also e.g. with bad video tapes or with video signals with negative pulses in the information part of the signal.

How to change the Clamp Gating?

- 1. Push the cursor key ↑ or ↓ to select 'Clamp Gating' (menu 1).
- 2. Press ENTER to toggle between ON and OFF.

Default position : OFF.



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ROJECTOR LAMPS AND ACCESSORIES

Factory Preset

What can be done?

All settings for the line multiplier can be set to factory preset settings.

What are the factory preset settings?

The factory preset settings are :

Time base correction : on Luminace delay : 0

Vertical sync reference : indirect

Clamp gating: off

How to activate?

- 1. Push the cursor key ↑ or ▶ to select 'Factory Preset' (menu 1).
- 2. Press ENTER to activate.

LINE MULTIPLIER

TIME BASE CORRECTION : ON
LUMINANCE DELAY
V SYNC REF: INDIRECT
CLAMP GATING: OFF
FACTORY PRESET

WARNING: ADVANCED
WARNING: ADVANCED
PERFORMED ONLY BY QUALIFIED
PERSONNEL
Select with ♠ or ♥
then <ENTER>
<EXIT> to return.

menu 1

Geometry Adjustments

What can be done?

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

Start Up

To start up the geometry corrections, handle as follow:

- 1. Push the cursor key \uplieset or \uplieset to highlight 'Geometry' (menu 1).
- Press ENTER to select. The Geometry menu will be displayed on the screen (menu 2).

Important

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



Horizontal Phase Adjustment

Start Up

- 1. Push the cursor key ↑ or ↓ to highlight 'H Phase' (menu 1).
- Press ENTER to activate. The external image with a text box in the middle will be projected.

Note

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

How to adjust?

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.

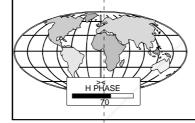
Image 1: Push the cursor key to the right to correct.

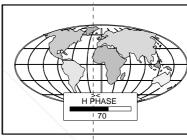
Image 2: Push the cursor key to the left to correct.

Note: If the genlocked pattern was selected during the start up of the random access mode, 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.







menu 1

image 2

Raster Shift Adjustment

What has to be done?

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 cursor keys to move the raster.

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.

Start up

To start the adjustment (image 1):

1. push the cursor key ↑ or ♥ to highlight Raster Shift (menu 1).

image 1

- press ENTER to display the coarse shift menu (menu 2)
- Select first green horizontal and adjust.
- 4. Continue with green vertical. 5. Shift red and blue on green.

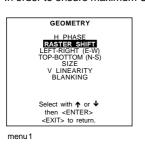
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Note

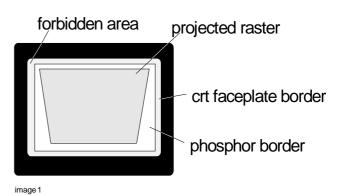
Horizontal and Vertical shifts for Red and Blue should end up with a setting close to 50%. If these settings are significantly greater or lesser than 50%, contact a BARCO authorized service technician.

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.







Left-Right (east-west) Adjustments

What can be adjusted?

Left-right and center adjustments affect only the vertical lines of the projected image. The skew, the bow, the keystone and the seagull distorsion can be adjusted.

Start up

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

1. Push the cursor key ↑ or ♥ to highlight *LEFT-RIGHT (E/W)* (image 1).

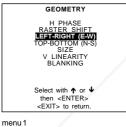
LEFT-RIGHT (E-W)

V CENTERLINE BOW V CENTERLINE SKEW RIGHT BOW
RIGHT KEYSTONE
LEFT BOW
LEFT KEYSTONE
SEAGULL CORRECTION

Select with ↑ or ↓ then <ENTER> <EXIT> to return.

2. Press ENTER to select.

The 'Left-Right' menu will be displayed (menu 2).





menu 2

Note

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.

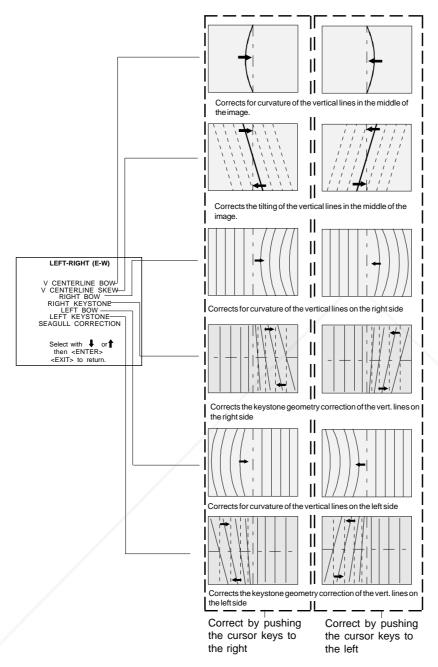
Which adjustment can be executed?



How to enter an alignment?

To enter an alignment:

- 1. Push the cursor key \spadesuit or \blacktriangledown to highlight a function
- 2. Press ENTER to activate this function.
- 3. Press EXIT to return.





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Seagull correction

What can be done?

Use this correction only if, after adjusting the vertical lines with the side bow or side keystone, still a 'S' deformation is visible on the left and the right side of the image.

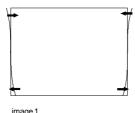
The default value on the bar scale for this correction is 50.

Start up

To correct the Seagull Correction:

- 1. Push the cursor key ↑ or ▶ to highlight SEAGULL CORRECTION (menu 1)
- Press ENTER to activate. Eliminate the deformation by pushing the cursor key ← or → until a straight line is obtained (image 1).





menu 1

Top-Bottom (north-south) Adjustments

What can be adjusted?

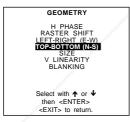
Top-Bottom and center adjustments affect only the horizontal lines of the projected image. The skew, the bow, the keystone and the seagull deviation can be adjusted.

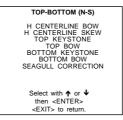
Start Up

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

- 1. Push the cursor key ↑ or ↓ to highlight TOP-BOTTOM (N/S) (menu 1).
- 2. Press ENTER to select.

The Top-Bottom menu will be selected (menu 2).





menu 1

menu2

Note

Only the green image is displayed while making top-botton 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.

FixYo Which adjustment can be executed?

The following adjustments can be executed

.com (800) 281-8860 horizontal centerline bow

ECTOR LAMPS AND ACCESSORI

- horizontal centerline skew Top bow

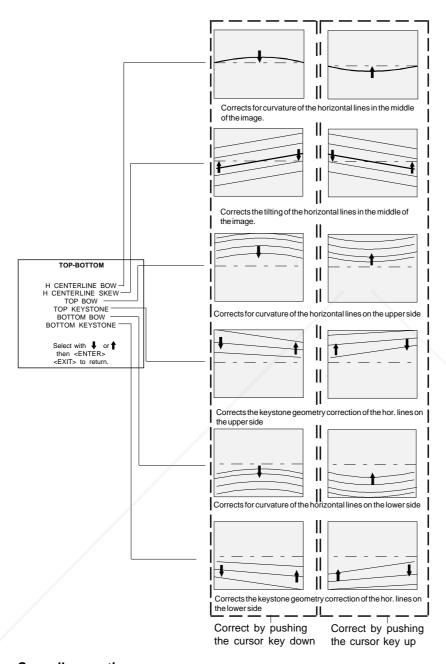
- Top keystone
- Bottom bow
- Bottom keystone

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 horizontal lines are straight.

How to enter an alignment?

To enter an alignment:

- 1. Push the cursor key ↑ or ▶ to highlight a function
- 2. Press ENTER to activate this function.
- 3. Press EXIT to return.



Seagull correction



Use this correction after the image has been adjusted with top and bottom bow and keystone. If still a deformation (like a seagull) on top and bottom of the image is visible, proceed to the seagull correction. Due to interaction, it is possible that the top and bottom bow have to be readjusted after adjusting the seagull correction to obtain an improved image. The default value on the bar scale

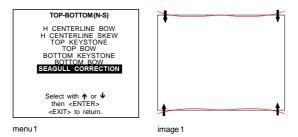
THE this correction is 50 SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Start up

To correct the Seagull Correction:

- 1. Push the cursor key ↑ or ♥ to highlight SEAGULL CORRECTION (menu 1)
- 2. Press **ENTER** to activate.

Eliminate the deformation by pushing the cursor key ↑ or ↓ until a straight line is obtained (image 1).



Size Adjustment

What can be done?

To adjust (correct) a little bit the picture size (when the projector is on its correct position) in regard with the installed screen

Start up

- 1. Push the cursor key \spadesuit or \blacktriangledown to highlight Size (menu 1).
- 2. Press ENTER to activate (menu 2).
 - 1. Push the cursor cursor key → or ← until the exact image width is obtained (horizontal size) (image 1).
 - 2. Push the cursor key ↑ or ♥ until the exact image height is obtained (vertical size) (image 2).

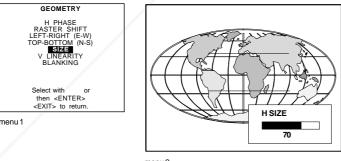
Note:

- 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.



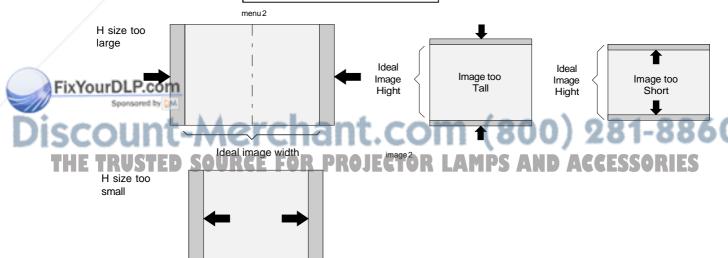


image 1

Vertical Linearity Adjustment

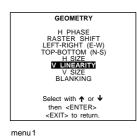
What can be done?

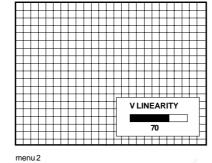
The vertical linearity adjustment function corrects for vertical non-linearities which extend from the center of the image to the top and bottom of the image.

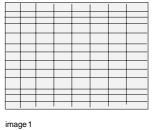
Start Up

To start up the vertical linearity adjustment :

- 1. push the cursor key ↑ or ♥ to highlight V Linearity (menu 1).
- press ENTER to activate (menu 2). Adjust the vertical linearity with the cursor keys until the distances between the horizontal lines of the set up pattern are equal from top to bottom (image 1).







Blanking Adjustments

What can be done?

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. The following blanking adjustment are available: Top, Bottom, left and right blanking.

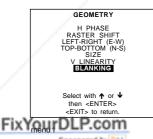
Start Up

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

- 1. Push the cursor key \spadesuit or \blacktriangledown to highlight Blanking (menu 1).
- 2. Press ENTER to display the blanking menu (menu 2).

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.





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How to adjust the Blanking?

Adjust the next blanking alignments until the image is correctly framed or the unwanted information is blanked out (image 1). To enter a blanking alignment:

- 1. Push the cursor key ↑ or ♥ to highlight the desired blanking position.
- 2. Press ENTER to select.
- 3. Press the cursor key ↑ or ↓ to adjust the blanking.
- 4. Press **ENTER** to continue.

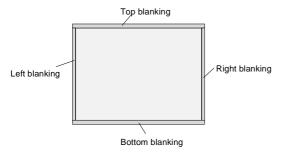
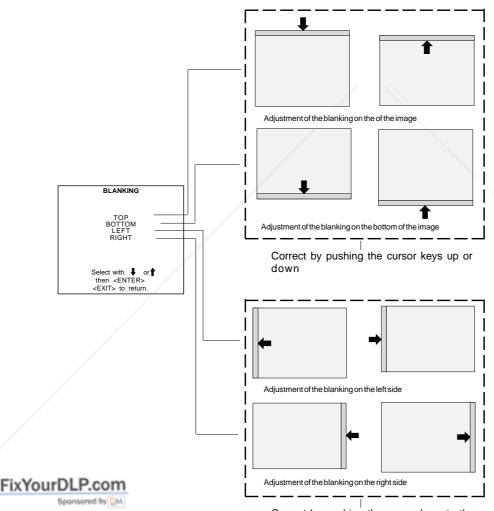


image 1



Correct by pushing the cursor keys to the right or to the left

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Convergence Adjustment

What has to be done?

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. The screen is devided into 25 areas (image 1)

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.

Adjustment order

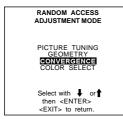
Adjust first the 'green only' when available and continue with red on green and blue on green.

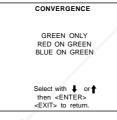
Start up

- 1. Push the cursor key ↑ or ↓ to select desired adjustment.
- 2. Press ENTER to activate.

How to adjust?

- 1. Use the cursor keys to move the box to the desired zone.
- Press ENTER to begin the convergence adjustment.
 Start the convergence adjustment with zone one and continue as mentioned in the image 1.
- 3. Use the cursor keys to make horizontal or vertical convergence adjustments in the selected zone (image 2).
- 4. Press ENTER to move to another zone.
- 5. Press **EXIT** to return to the convergence menu.



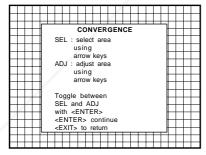


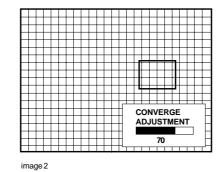
25	23	9	15	17
24	22	8	14	16
5	4	1	2	3
20	18	6	10	12
21	19	7	11	13

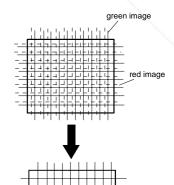
menu 1

menu2









menu3



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SERVICE MODE

Service mode.

Start Up

- 1. Push the cursor key \spadesuit or \blacktriangledown to select to SERVICE (menu 1).
- 2. Press ENTER to select.

The service menu will be displayed (menu 2).

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.

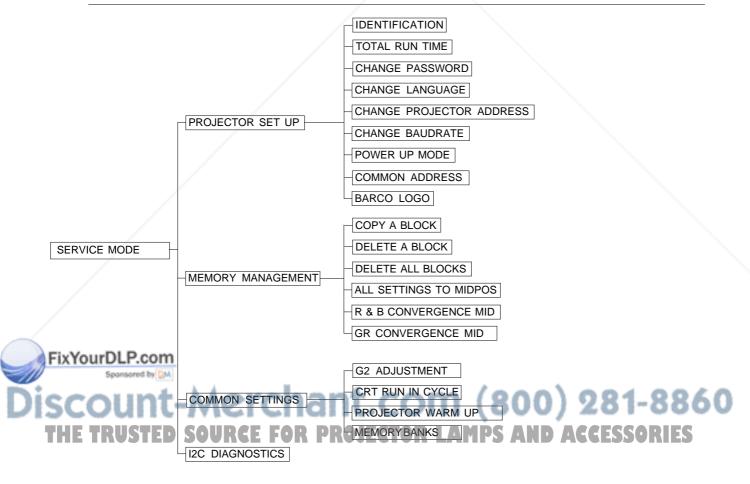




menu 1

menu 2

Overview flowchart



Projector Set-up

What can be done?

Within the projector set-up menu, the following items can be consultated or set to the

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

Start up the Projector Set-Up

To select Projector Set-Up:

- 1. Push the cursor key ↑ or ♥ to highlight Projector Set_Up (menu 1).
- 2. Press ENTER to display the Projector set up menu (menu 2).



PROJECTOR SET-UP IDENTIFICATION
TOTAL RUN TIME
CHANGE PASSWORD
CHANGE LANGUAGE
HANGE PROJECTOR ADDRESS
CHANGE BAUDRATE
POWER UP MODE: operating
COMMON ADDRESS: 0
BARCO LOGO Select with ↑ or ↓ then <ENTER> <EXIT> to return.

menu 1

menu 2

Identification

What can be seen ?

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

FIXYOUTHE 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

AMPS AND ACCESSORI

How to start up?

To select Identification:

- Push the cursor key ↑ or ↓ to highlight Identification (menu 1).
- 2. Press ENTER to select.

The identification screen will be displayed (menu 2).



CINE 7
Proj. address: 001
Soft. Version: 6.00
Config.: Ceilling
Front
Baudrate PC: 9600
Text: ON
Serial No.: 103589552

menu 1

menu2

Total Run Time

What can be displayed?

The total run time since the first start up can be displayed.

Note

All projectors leave the factory after a burn-in period of approximately 100 hours.

How to start up?

To select Total Run Time:

- 1. Push the cursor key ↑ or ▶ to highlight Total Run Time (menu 1).
- 2. Press ENTER to activate.

The amount of time the projector has played since its first start up at the factory will be displayed in a text box (menu 2).



RUN TIME 110 h

menu2

menu 1

Change password

What can be done?

The password code (4 digits) can be changed to a new one.

This item is password protected. First the actual password should be entered before continuing.

Note

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

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How to select?

To select Change Password:

- Push the cursor key ↑ or ♥ to highlight 'Change Password' (menu 1).
- Press ENTER to display the password menu (menu 2). If it is the first time you enter a password protected item, enter your password and press ENTER. The current password is displayed. The new password must consist of 4 digits between 0 and 9.

How to enter a new password?

Handle as follow:

- Push the cursor key ← or → to select the digits to be changed (menu 2).
- 2. Press a numeric keys to enter the new digit.
- 3. Repeat for the other digits.
- Press ENTER to save the new password. Before saving the new password, a confirmation screen will be displayed (menu 3).
- 5. When the displayed password is correct, press ENTER to save.
- 6. If not correct, press EXIT to cancel the saving.







menu 1

Change Language

What can be done?

The 'Change Language' function offers the possibility to change the language of the screen menus to English, Spanish, French and

How to change the language?

To change the language, handle as follow:

- 1. Push the cursor key ↑ or ♥ to highlight Change Language (menu 1).
- Press ENTER to display the language menu. The language menu will be displayed (menu 2).
- 3. Push the cursor key ↑ or ♥ to highlight the desired language.
- Press ENTER to change to that language.







menu2

Change Projector Address What can be done?

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

How to change that address?

To change that address, handle as follow:

- Push the cursor key ↑ or ↓ to highlight 'Change Projector Address' (menu 1).
- Press ENTER to select.

The Change Projector Address menu (menu 2) will be displayed and the actual address will be filled in. The first digit is highlighted.

- Push the cursor key ← or → to select the digit to be changed.
- 4. Reprogram with the digit keys on the RCU.
- 5. Press ENTER to confirm.





menu 2

Change Baudrate

What can be set up?

The communication speed between projector and computer has 8 possible speeds. The baud rate speed can be software set up. The following baud rates are available:

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

How to set up?

To set up the baudrate:

- 1. Push the cursor key ↑ or ↓ to highlight 'Change Baudrate' (menu 1).
- 2. Press ENTER to select.

The actual baud rate will be highlighted (menu 2)

- 3. Push the cursor key \spadesuit or \blacktriangledown to select the desired baudrate.
- 4. Press ENTER to accept.





menu 1

menu2

Power up mode

What can be done?

Fix Yo 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.

AMPS AND ACCESSORIES

How to change the mode?

To change the Power up mode:

- Push the cursor key ↑ or ♥ to highlight Power Up (menu 1).
- 2. Press ENTER to toggle between 'Operating' and 'Standby'.



menu 1

Common Address

What can be done?

Every projector listens to a common address. This common address can be set to '0' or '1'. When a RCU is programmed with that common address, every projector with that same common address will follow up the commands given by that RCU.

Why 2 different common address?

The reason to have the choice to select between common addresses is, to avoid controlling of other IR controlled units, e.g. a TV set with standard common address 0.

How to change the common address?

- Push the cursor key ↑ or ♥ to highlight Common Address (menu 1).
- 2. Press ENTER to toggle between '0' and '1'.



menu 1

BARCO logo

What can be done?

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

WARNING

Continuous use of the BARCO logo damages the RED CRT.

How to add the BARCO logo?

FixYourDLP.com

To add the BARCO logo or to change a setting in the BARCO logo menu :

- Push the cursor key ↑ or ♥ to highlight BARCO_logo (menu 1).
- 2. Press ENTER to select.

The BARCO logo menu will be displayed on the screen (menu 2). Within this menu, four toggle settings are available.



MODE: ON SIZE SMALL BACKGROUND: ON ORBITTING: ON

You can move the logo on the screen, using the arrow keys.

WARNING: continuous use of the BARCO logo damages the RED CRT!

Select with Φ or Ψ <ENTER> to toggle

<EXIT> to return.

menu 1

AMPS AND ACCESSORIES

Mode [ON/OFF]:

Select Mode and toggle with ENTER between ON and OFF.

ON: BARCO logo will be displayed on the screen when leaving the adjustment mode. To position the logo on the screen, push the cursor key up, down, to the left or to the right until the desired position is reached.

OFF: No BARCO logo displayed on the screen when leaving the adjustment mode.

Size [SMALL/LARGE]:

Select Size and toggle with ENTER between Small and 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]:

Select Background and toggle with ENTER between ON and OFF.

ON: BARCO logo will be displayed on a black background. OFF: BARCO logo will be displayed without any background.

Orbiting [ON/OFF]:

Select Orbiting and toggle with ENTER between ON and OFF

ON: the BARCO logo will orbit around its axis.

OFF: no orbit of the BARCO logo.

Memory management

What can be done?

Within the memory management menu, the following items can be consultated or executed:

MEMORY MANAGEMENT

Select with ↑ or ↓ then <ENTER> <EXIT> to return.

- 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)



FixYoHoWlt@select?

To select Memory Management :

Push the cursor key ↑ or ♥ to highlight Memory Management (menu 1).

(800) 281-8860 Press ENTER to select. The memory management menu will be displayed (menu 2). MPS AND ACCESSORIES

Copy a block

What can be done?

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

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How to copy?

To copy a block:

- 1. Push the cursor key \spadesuit or \blacktriangledown to highlight 'Copy a Block' (menu 1).
- 2. Press ENTER to select.

The copy menu will be displayed (menu 2).

To copy the settings of a closed block to the block you are working on (active block),

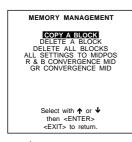
- 3. Push the cursor key \uparrow or \checkmark to select a block.
- 4. Press ENTER to copy the selected block.

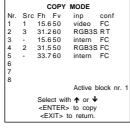
All current settings will be overwritten with the settings of the block which is copied.

A confirmation screen will be displayed (menu 3).

5. ENTER to confirm.

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







menu 1

menu 2

Deletion of blocks

What can be done?

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.

This item is password protected.

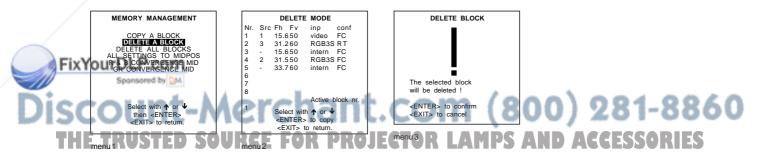
Deleting block by block

What can be done?

The 'delete a block' function deletes the settings of a selected block.

How to delete a Block?

- 1. Push the cursor key ↑ or ↓ to highlight Delete a Block (menu 1).
- 2. Press ENTER to display the delete mode (menu 2).
- 3. Push the cursor key \spadesuit or \blacktriangledown to select the desired adjustment block.
- 4. Press ENTER to delete the selected adjustment block.
 - A confirmation menu will be displayed (menu 3).
- 5. Press ENTER to confirm.
 - Press EXIT to cancel the deletion procedure



Deletion of all blocks

What can be done?

All blocks (all settings) can be deleted at the same time.

How to delete all blocks?

- 1. Push the cursor key \spadesuit or \blacktriangledown to highlight Delete all Blocks (menu 1).
- 2. Press ENTER to select.
 - A confirmation screen will be displayed (menu 2).
- 3. Press ENTER to confirm

Press EXIT to return without deleting any block.

Once ENTER is pressed, all block headers and adjustment settings are permanently removed and cannot be restored.





menu 1

All settings to midposition

What can be done?

All adjustment settings (geometry and convergence) can be set to mid position. Item is password protected.

How to set to midposition?

- 1. Push the cursor key \spadesuit or \blacktriangledown to highlight All Settings to Midposition (menu 1).
- 2. Press ENTER to select.
 - A confirmation menu will be displayed first (menu 2).
- 3. Press ENTER to confirm.

Press EXIT to cancel the operation 'set all settings to their midposition'.





menu 1

Undo all settings to midpos

What can be done?

Under 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 presssed all settings are reset to the previous settings.

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How to cancel 'Set to midposition'?

When "All settings to midpos" is selected, all settings are set to their midposition. To cancel this action :

- 1. Push the cursor key ↑ or ♥ to highlight 'Undo all settings to midpos' (menu 1).
- 2. Press ENTER to cancel the set to midposition action.



R & B convergence mid

What can be done?

All convergence settings for red and blue are set to midposition. Item is password protected.

How to set convergence to midposition:

- 1. Push the cursor key ↑ or ♥ to highlight 'R & B Convergence Mid' (menu 1).
- Press ENTER to select.
 - A confirmation screen will be displayed first (menu 2).
- 3. Press ENTER to confirm.

Press EXIT to cancel the procedure to set the convergence settings to their midposition.





menu 1

Undo R & B convergence mid

What can be done?

When "R & B convergence mid" is selected, all convergence settings are set to their midposition. With the undo, it is possible to return to the previous settings as long as the projector is playing on the same source (= same adjustment block). 'Undo R & B convergence mid' is displayed in the Memory management menu in stead off 'R & B convergence mid' when this latter is pressed.

How to Undo?

Push the cursor key ↑ or ♥ to highlight 'Undo R & B convergence mid' (menu 1).



menu 1

Green convergence mid

What can be done?

The green convergence settings can be set to midposition.

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

How to set Green settings to midposition?

- 1. Push the cursor key ↑ or ▶ to highlight 'GR Convergence Mid' (menu 1).
- 2. Press ENTER to select.
 - A confirmation screen will be displayed first (menu 2).
- Press ENTER to confirm.

Press EXIT to cancel the procedure to set the green convergence settings to their midposition.





menu 1

Undo green convergence mid

What can be done?

'Undo Gr convergence mid' is displayed in the Memory management menu in stead off 'Gr convergence mid' when this latter is pressed. Only available when the projector is equipped with green convergence adjustmentes.

When "Gr convergence mid" is selected, all green convergence settings are set to their midposition.

How to undo?

- 1. Push the cursor key ↑ or ↓ to highlight 'Undo Gr convergence mid' (menu 1).
- 2. Press ENTER undo.



menu '

Common Settings

What can be done?

Within the common settings menu, the following items can be set up or executed :

- G2 adjustment
- CRT run in cycle
- Projector warm up
THE - Memory banks . on/off URGE FOR PROJECTOR LAMPS AND AGGESSORIES

How to select?

- 1. Push the cursor key ↑ or ↓ to highlight 'Common Settings' (menu 1).
- 2. Press ENTER to select.

The common settings menu will be displayed (menu 2).





menu 1

menu 2

G2 Adjustment

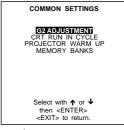
Warning

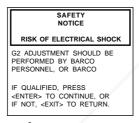
'G2 adjustment should be performed by BARCO personnel, or BARCO authorized dealers'.

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.

Item is password protected.

When selecting G2 adjustment (menu 1), a safety notice will be displayed on the screen (menu 2).





menu 1

menu2

CRT run in cycle

What can be done ?

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.

How to select CRT run in cycle?

- 1. Push the cursor key ↑ or ↓ to highlight 'CRT run in Cycle' (menu 1).
- 2. Press ENTER to start up.

If a memory block adjusted on an internal # pattern is available, the CRT run in cycle will start. 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.



Projector warm up

What can be done?

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.

How to select?

- 1. Push the cursor key ↑ or ▶ to highlight 'Projector Warm up' (menu 1).
- 2. Press ENTER to select.

The projector warm up menu will be displayed (menu 1).

3. Press ENTER to toggle the ON/OFF option.



PROJECTOR WARM UP
OPTION: ON
A FULL WHITE PATTERN
WILL BE GENERATED FOR
20 MINUTES AT POWER UP
AFTER THIS PROCEDURE
THE PROJECTOR IS READY
TO PERFORM IN OPTIMUM
CONDITION
TOGGLE OPTION ON OR OFF
with <ENTER>
<EXIT> to return

menu 1

menu 2

Memory banks

What can be done?

The user has the possibility to create 8 different memory banks (formats) 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.

How to select Memory Banks?

- 1. Push the cursor key ↑ or ♥ to highlight 'Memory Banks' (menu 1).
- 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?

- 1. Select your source. The projector selects the last used memory bank.
- 2. Press ENTER
- 3. 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.)
- 4. 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.

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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:

1. Press ENTER to select the next memory bank in increasing order.

or

2. Enter the number of the desired memory bank with the digit keys.

In both cases, the on-screen indication will be update.





menu 1

I2C Diagnostics

What can be seen ?

The I2C diagnostics menu gives an overview of the I2C failures inside the projector. To scroll through the failure list, push the the cursor key \spadesuit or \blacktriangledown . The I2C address, IC number and module name will be given in I2C diagnostic menu.

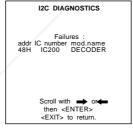
When no errors are detected, the following message will appear on the screen:

"No errors on i2c-bus detected".

How to select?

- 1. Push the cursor key \spadesuit or \blacktriangledown to highlight 'I²C Diagnostics' (menu 1).
- 2. Press ENTER to display the diagnostic menu (menu 2).





menu 1

menu2





PROGRAMMABLE FUNCTION KEYS

Programmable Function Keys

What can be done with these keys

The five function keys on top of the remote control can be programmed as short cut keys (quick access) to almost any adjustment function.

See list further in this chapter.

How can a Function Key be programmed?

A function key can only be programmed when in the service menus.

Handle as follow:

- 1. Scroll through the menus until the desired function is on the menu.
- Select this function by pushing the cursor keys up or down.
- Press the desired function key for this function. The following message: "Programming Function Key Fx" will be displayed. The message will disappear automatically and the function key is programmed.
- Leave the adjustment mode by pressing ADJUST.
- 5. The function key is available in the operational mode.
- e.g. programming horizontal phase on key F4.
- 1. Press ADJUST to enter the main menu (menu 1).
- Push the cursor keys ↑ or ♥ to select 'Service mode'.
- Press ENTER to go into the adjustment menus. A warning will be displayed (menu 2).
- If qualified, press ENTER otherwise press EXIT and call for technical assistance.
- Select Random Access by pushing the cursor keys ↑ or .
- Press ENTER to display the Random Access mode menu (menu 3).
- Push the cursor keys ♠ or ♥ to select 'Geometry'.
- 8. Press ENTER to display the Geometry menu (menu 4).
- Push the cursor keys ↑ or ↓ to select H PHASE (menu 4).
- 10. Press 'F4' to program this key.
- 11. Press ADJUST to return to operational mode.

MAIN MENU Image Control IRIS Control Sound Control Function keys Service Menus Select with ↑ or ↓ then <ENTER> <EXIT> to return.

menu 1

WARNING

ADJUSTMENT OF THE PROJECTOR.

The following SERVICE menus are reserved to, and to be performed only by qualified personnel!

If qualified, press <ENTER> to continue, or if not, <EXIT> to return.

menu 2

ADJUSTMENT MODE

Select a path from below IRIS

GUIDED RANDOM ACCESS
INSTALLATION
SERVICE Source 01

Select with ↑ or ↓ then <ENTER>

<EXIT> to return

menu3

GEOMETRY H PHASE

RASTER SHIFT LEFT-RIGHT (E-W) TOP-BOTTOM (N-S) SIZE

Select with ↑ or ↓ then <ENTER> <EXIT> to retu

menu4

FixYoWhich functions can be programmed?

Line Multiplier on/off

chant.com (800) 281-8860 Time Base Correction on/off

LIMO Output Mode COURGE F PROJECTOR LAMPS AND ACCESSORIES

LIMO Contrast Enhancement Line Doubler on/off

Color Balance

Decoding EBU/IRE

Sync Fast/Slow

RGB Peaking

Red Horizontal Sides

Red Vertical Corners

Programmable Function Keys

Blue Horizontal Sides
Blue Vertical Corners
Green Convergence
Convergence Red on Green
Convergence Blue on Green
Horizontal Phase
H & V Size

H & V Size Vertical Linearity

Green Horizontal Coarse Shift

Green Vertical Coarse Shift

Red Vertical Coarse Shift

Vertical Centerline Bow

Vertical Centerline Skew

Right Bow

Right Keystone

Left Bow

Left Keystone

L-R Seagull Correction

Horizontal Centerline Bow

Horizontal Centerline Skew

Top Bow

Top Keystone

Bottom Keystone

T-B Seagull Correction

IRIS Touch-Up

IRIS Quick Autopicture

IRIS Full Autopicture

IRIS Align Source

IRIS Align Source From Mid

IRIS Touch-Up All Sources

IRIS Align All Sources

IRIS Align All Sources From Mid

Blanking Top

Blanking Bottom

Blanking Left

Blanking Right

Factory predefined functions

F1 = IRIS Touch-Up

F2 = Convergence Red on Green

F3 = Convergence Blue on Green

F4 = H & V Size

F5 = Color Balance





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

WARNING:

end of adjust 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 avail-

text on

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

Text ON: the 'bar scale indication' will be enabled during the change

available of an analog control in the 'operational mode' + all warnings and

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

failures will be displayed.

WARNING: input selector not It warns you to check the power connection or the power status of the RCVDS.

Next message will appear immediatly on the screen : 'go to

text off

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:

Your@ևR.com available_{red by}

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

FAILURE short circuit on I2C bus

Hardware failure. Call a qualified service technician for repair.

800) 281-8860

WARNING:

invalid key entry

When a wrong key

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10-1

FAILURE RCVDS communication error

Serial communication error between the RCVDS and the projector.

FAN FAILED Projector will switch off

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





ADJUSTMENT BLOCKS AND SOURCE NUMBERS 90 - 99

Adjustment Blocks (memory blocks)

What are adjustment block?

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.

Built up of block

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

Why used?

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.

How to create a second block?

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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```
source number 0 — Block header A
source number 90 _ Block header A, different analog settings

source number 1 — Block header B
source number 91 _ Block header B, different analog settings

source number 2 — Block header C
source number 92 _ Block header C, different analog settings

source number 9 — Block header J
source number 9 — Block header J
source number 99 _ Block header J, different analog settings
```





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