V+ HDIRES OUT
ON 307'S

□ □ □ □

K. video out

* MAKE K. VID OUT
GRAHILL Term SW

* MAKE LUM OUT + 3 MIX -
IN MATRIX

* MAKE
MAKE
MAKE
DESCR.:
- NON-SATURATED
- GOOD MIXING TO YELLOW + PURPLE
- MUCH WHITE HIGHLIGHTS
LEFT HAND CAN PLAY COLOR, RIGHT HAND PLAYS CHROMATICS ONE CUBE AT THE TIME, TUNABLE VOLUME CONTROL GAIN.

TO ACCOMPANY MELODY, INCORPORATED DINA.

TO ACCOMPANY MELODY, INCORPORATED DINA.

- LONG KEY:
  - V.C.G. 1
  - V.C.G. 2
  - V.C.G. 3
  - V.C.G. 4
  - V.C.G. 5
  - V.C.G. 6

- LONG KEY:
  - STORED AMP
  - TO GRN
  - TO 3W AMPLIFIER
  - TO 8W AMP.
PRELIMIN. CHECKOUT

- **WHILE MACHINE WARMS UP SET 3 CHANNEL SELECTORS TO DESIRED CHANNEL**
- **WHEN MONITORS LIGHT UP ADJUST VERTICAL HOLD ON TUNER “B” (RIGHT CONSOLE) TO**
- **STOP JUMPING ON THE THREE MONITORS**
- **ADJUST 3 FINE TUNINGS FOR STRONGEST IMAGES**
- **ADJUST VERTICAL HOLD ON TUNERS “A” AND “C” TO KEEP IMAGE FROM ROLLING INWARD OR OUTWARD**
- **ADJUST HORIZONTAL HOLDS ON TUNERS “A”, “B”, AND “C” TO GET STEADY, COMPLETE IMAGE IF NECESSARY**
- **RE-ADJUST FINE TUNING FOR SHARPEST PICTURE ON EACH OF 3 MONITORS**

- **TURN TO LARGE DISPLAY MONITOR 1**
  - **SCREEN SHOULD BE SOFTLY GLOWING WITH STEADY LIGHT**
- **ADJUST HORIZ. HOLD TO REMOVE DIAGONAL LINES (UNLIKELY)**
- **ADJUST VERTICAL HOLD TO STOP ROLLING (UNLIKELY)**
- **ADJUST BRIGHTNESS TO GET SOFT GLOW ON SCREEN.**
- **IF NO ACTION AT ALL ON THIS MONITOR CHECK POWER CABLE TO CONSOLE**
PRELIMINARY CHECK-OUT

- CHECK SIGNAL CABLE LAYOUT (DIAGRAM)
- CHECK KEY SWITCHES ON BOTH CONSOLES FOR RIGHT HAND ROTATION (ON POSITION)
- CHECK POWER-VOLUME KNOBS ON THREE TUNERS TO SEE THEY ARE IN THE "ON" POSITION (TURN TO RIGHT UNTIL KNOB IS IN FREE ROTATION TO ADJUST VOLUME OF SOUND)
- CHECK TOGGLE SWITCH ON MONITOR ON RIGHT HAND CONSOLE TO BE IN "ON" POSITION
- CHECK ALL BLACK KNOBS TO "RED DOT" POSITION
- TURN THREE LARGE KNOBS ON COLOR PANEL TO "0"
- PRESS RED BUTTON ON POWER PANEL AND MACHINE SHOULD START
- CHECK FOR:  • GREEN LIGHT ON POWER PANEL
  • RED LIGHT ON RIGHT CONSOLE
  • NEON LIGHTS INSIDE CHANNEL SELECTORS OF THREE TUNERS
  • BLOWER MOTOR IN RIGHT CONSOLE
- ALL DISPLAY MONITORS SHOULD SHOW ALL THREE ON CONSOLE WITH PICTURES
- IF NO ACTION IN EITHER CONSOLE CHECK POWER CABLES (DIAGRAM)
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Intermedia Program

IF YOUR MEMORY SERVES YOU WELL
SET COLOR CONTROLS TO A GOOD BEGINNING PATTERN:

- TOP ROW: RED 30 BLUE 100 GREEN 30
- MIDDLE ROW: 11 100 11 30 11 30
- BOTTOM ROW: 11 30 11 30 11 100

SET LARGE PERCENTAGE CONTROLS TO DESIRED LEVEL OF INTENSITY, KEEPING ALL NEARLY EQUAL (MARKED "I-C")

SET INTRA-CHANNEL KNOBS (TUNERS "A" AND "C") AND BUTTONS (TUNER "B") TO GET THE MOST PLEASING EFFECT

MACHINE MAY NOW BE STOPPED AND RESTARTED WITH ONLY TOUGH-UP ADJUSTMENTS OF THE 3 VERTICAL HOLDS ON THE TUNERS NEEDED AT WARM-UP.
PRELIMINARY CHECK-OUT

TO GET STRAIGHT T.V. ON DISPLAY
MONITOR REMOVE CABLE "P" FROM
JACK "P" ON RIGHT CONSOLE AND
CONNECT IT TO JACK "RST" ON RIGHT
CONSOLE (NEAR TUNER), TURN THE TOP
AND BOTTOM PERCENT KNOBS ON
THE COLOR PANEL TO "0" AND
TURN THE CENTER ROW COLOR KNOBS
ALL TO 100. THE CENTER PERCENT
KNOB NOW CONTROLS THE
INTENSITY OF THE STRAIGHT IMAGE
DESCR.: T.V. as a Creative medium

\[ \begin{align*}
\text{Ph} &= N - H \text{ CH4} \\
\text{Ph} &= N - U \text{ CH4} \\
\text{Ph} &= R - H \text{ CH4} \\
\text{Ph} &= R - V \text{ CH4}
\end{align*} \]

DATE: May 15, 1965
SIGNAL CABLE LAYOUT
**ARCHETRON**  
**VID+PWR. PNL.**

**REAR**

12 VAC OUT TO MATRIX

110VAC OUT TO COMPONENTS  
+ 2 SPARES

**COLOR MONITOR**  
**RIGHT SIDE END VIEW**

**CABLE CONNECTIONS**

110V. FROM  
PWR. RLY. PNL.

1 = RED  
2 = BLU.  
3 = GRN.  
4 = SY. #1  
5 = SY #3  
A = VERT. DR. IN  
B = HORIZ DR. IN  
C = VIDEO IN
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School of the Arts
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Intermedia Program

ARCHETRON
B&W VID. & PWR. IN.
CAMERAS 2 VID. OUT TO MATRIX
CAMERAS 2 OUT TO MATRIX
 AUDIO OUT HIGH IMP.
 "ON" PILOT

NOT USED
EXT. VERT.
DR. IN
VERT. DRIVE OUT
OUT.R.P. MONITOR VID. IN

FRONT
ON EXT. INT.

COLOR

B&W
ON

CAMERAS #2 LOOP-THRU
INTERNAL SPEAKER OFF-ON

AUDIO OUT LOW IMP.
(SPKR)

KEY LOCK

110V AC IN LOCATED
UNDER REAR CENTER OF
CABINET
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School of the Arts
WASHINGTON SQUARE, NEW YORK, N.Y. 10003
AREA 212 772-2000
Intermedia Program

ARCHETRON
VID. PLUR. RLY

RED OUT
BLU. OUT
GRN OUT
HAC OUT
HAC IN
HAC OUT TO BLK.

"ON"

LOCK OFF
START (RED)
STOP (BLK)

REAR ON BACK

VERT. DR. IN
HORIZ. DR. IN

VIDEO IN
FROM B&W
(MUST BE SYNCED TO VTH DR.)

#2 SYNC OUT
MUST BE TERM. 75-Ω

#1 SYNC OUT
MUST BE TERM. 75-Ω
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ARCHETRON
B+W (Tuner #2)
PATTERN MAKER

NTSC ENCODER

COX CABLE

CODED SIGNAL 4 MC RANGE

CABLE THROUGH CITY

RELAY AMP F NEEDED

ANDREA DISPLAY MONITOR (WISE GALLERY)
PRELIMINARY

CHECK-OUT

1. Check Signal Cable Layout (Diagram).
2. Check Key Switches on Both Consoles for Right-Hand Rotation (On Position).
3. Check Power Volume Knobs on Three Tuners to see that they are in the "ON" Position (Turn to Right until Knob is in Free Rotation to Adjust Volume of Sound).
4. Check Toggle Switch on Monitor on Right-Hand Console to be in "ON" Position.
5. Check all Black Knobs to "RED DOT" Position.
6. Turn Three Large Knobs on Color Panel to "O".
8. Check for: (a) Green Light on Power Panel.
   (b) Red Light on Right Console.
   (c) Neon Lights inside Channel Selectors of Three Tuners.
   (d) Blower Motor in Right Console.
9. If no action in either Console then Check Power Cables (Diagram)
10. While Machine Warms Up, Set 3 Channel Selectors to Desired Channel
11. When Monitors Light Up Adjust Vertical Hold on Tuner "B" (Right Console) to Stop Jumping on the Three Monitors.
13. Adjust Vertical Hold on Tuners "A" and "C" to keep Image from Rolling Inward or Outward.
16. Turn to Large Display Monitor:
   (a) Screen should be Softly Glowing with Steady Light.
   (b) Adjust Horizontal Hold to Remove Diagonal Lines (Unlikely).
   (c) Adjust Vertical Hold to Stop Rolling (Unlikely).
(d) Adjust Brightness to Get Soft Glow on Screen.
(e) If no Action at All on this Monitor, Check Power Cable to Console.

(17) **Console Color Controls:**

(a) Set Color Controls to a Good Beginning Pattern:
   E.G. **TOP ROW:** Red 30° Blue 100° Green 30°
   **MIDDLE ROW:** "100°" "30°" "30°"
   **BOTTOM ROW:** "30°" "30°" "100°"

(b) Set Large Percentage Controls to Desired Level of Intensity, Keeping All Nearly Equal.

(c) Set Intra-Channel Knobs Marked "I-C" (Tuners "A" and "C"), and Buttons (Tuner "B") to Get the Most Pleasing Effect.

(18) Machine May Now be Stopped & Restarted with only Touch-Up Adjustments of the Three Vertical Holds on the Tuners Needed to Warm Up.

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**PRELIMINARY CHECK-OUT**

(1) **To Get Straight-T.V. on Display Monitor**
   Remove Cable "P" from Jack "P" on Right Console(Near Tuner);
   Turn the Top & Bottom Percent Knobs on the Color Panel to 0°
   & Turn the Center Row Percent Knobs all to 100°. The Center Percent Knob now Controls the Intensity of the Straight Image.
CAVEAT - KE ARCHETYPAL OPERATION

WARNING - DO NOT

1. Inadvertently turn OFF sub-assemblies like tuners or monitors.

2. Keep pointers of all black knobs to red dots.

3. Keys to be turned off position ONLY if machine is to be moved.

4. If machine moved cables are to be removed & stored in cabinet & are to be plugged back later according to correct lettering.

5. If any cable removed for "straight t.v.", it must be later replaced on original jack.
CCTV - always put cover over lens

Switch camera button to "stand-by" or "off"

Always turn to stand-by or off when not using

Do not focus on still object for more than 2 hrs.
DESCR.: BASIC SPECTRAL SYSTEM
          ALL ON SAME CHANNEL FOR BEST COLOR BREAKDOWN
          ALL ON DIFFERENT CHANNELS FOR BEST ACTION

DATE: Oct 19, 1968

Tallie
ARCHETRON

COLOR PLOT

DESCR.: TOP ROW = GOLD
        SECOND ROW = PURPLE
        BOTTOM ROW = STANDARD BLUE

EFFECT OF SUBLIME BACKGROUND.
TERTIARY COLORS WITH OCCASIONAL
BREAKDOWN INTO SMALL AREAS
OF SUBTLE COLORS. PREDOMINANCE - LOTS OF WHITES.

DATE: OCT 19, 1968

TODD 2
ARCHETRON
COLOR PLOT

DESCR.: SUPER-SATURATED RED, BLUE & GREEN MIXING MAKES ALL COLOR RANGES WITH MUCH PASTELS, ESPECIALLY EFFECT

DATE: OCT 19, 1968
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ARTS 512 777-2000

Intermedia Program
EXT. CONT.

OR + OR = RED
OR + BLU = BLUE
YEL + BLK = RED
OR + RED = ORANGE
YEL + RED = YELLOW

GRN = GRN
BLK = BLK
WHT = WHT

QR = C
QB = 05
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AREA 212 777-0000
Intermedia Program
ARCHETRON
HIGH-VOLTAGE AMP.

* MAY NEED TRIMMING FOR WHITE PEAK CLIPPING OR INVERSION

† MAY NEED TRIMMING FOR GAIN - SMearing

• MAY NEED TRIMMING FOR LINEARITY

DES. JOS. E. SIEGEL
Aug 29, 1968

J. SIEGEL
ARCHETRON

"Y" AMP MODIFICATIONS

TO "Y" MATRIX

NEW YORK UNIVERSITY

School of the Arts
WASHINGTON SQUARE, NEW YORK, N.Y. 10001
Area 212-798-7000
Intermedia Program
LUMINANCE MIXER

DES. JOS E. SIEGEL

* MAY NEED TRIMMING FOR WHITE CLIPPING