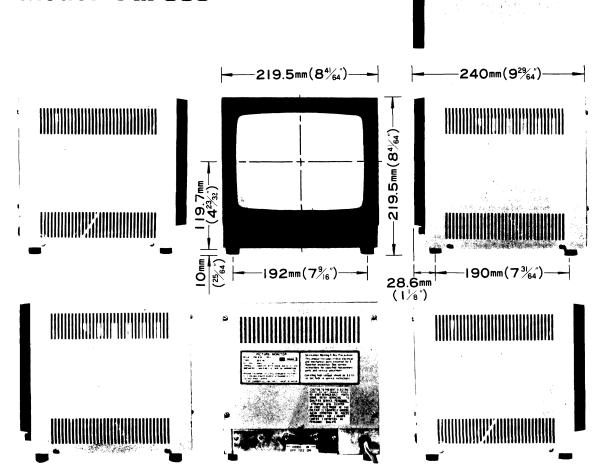


OPERATING INSTRUCTIONS & SERVICE MANUAL

9" CCTV PICTURE MONITOR

Model PM-930



OUTDOOR USE WARNING

WARNING-TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.





CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

PRELIMINARIES

PM-930 incorporates a 9" diagonal CRT. This solid state design, utilizing top quality integrated circuits and silicon semiconductors, assures an excellent picture with long term reliability. The simple circuit design and compact construction present this unit as an economical device.

This manual contains initial set up procedures, operating instructions and service informations for PM-930.

Please note that the PM-930 picture monitor is a finely adjusted precision piece of equipment. To be assured of trouble-free operation, full performance capability and a long service life, we strongly recommend that you check these instructions completely before attempting to assemble, install or operate this monitor.

Although this picture monitor is a solid-state, modular unit using mainly low-voltage circuitry at nonhazardous energy levels, power supply voltages are present on certain parts of the interior. Such parts are not accessible in normal use, but while carrying out maintenance or repair, EXTREME CARE should be taken. Mains voltages can be LETHAL!

It is strongly recommended not to tamper with them unless really necessary, and in such cases, always follow the procedure given in these instructions. Use appropriate tools. And note that the inside adjustments or repair should only be made by a fully qualified technicians.

CARE IN HANDLING

Careful handling of the monitor and accessories should be practiced at all times, avoiding unnecessary physical shocks and similar rough handling.

The monitor should always be set up in a well-ventilated area, and shielded from any heat sources, high-powered lights, especially strong magnetic fields (such as power transformers), which may cause picture swing or distortion.

Excessive moisture-, gas- or salt-laden atmospheres should be avoided as much as possible, since circuitry components and connector contacts may be adversely affected.

Dust accumulation should be avoided, since many parts of the unit will be adversely affected in time, and the service-life will be shortened.

Regularly check the connection cables, which are prone to damage, especially in outdoor use. The cable should always be handled with care, kept free from sharp bends and kinks, and relieved from strain near the connectors. Checking of the connectors for full insertion and tightness is also recommended, especially where the same set up is used for a long time.

IMPORTANT SAFEGUARDS

- * Read all of these instructions.
- * Save these instructions for later use.
- * Unplug this television monitor from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- * Do not use attachments not recommended as they may cause hazards.

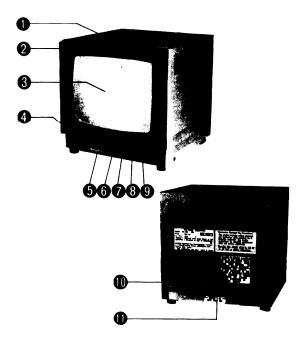
- * Do not use this television monitor near water-for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
- * Do not place this television monitor on an unstable cart. stand, or table. The television monitor may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart or stand recommended, or sold with the television monitor. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved.
- * Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to ensure reliable operation of the television monitor and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the television monitor on a bed, sofa, rug, or other similar surface. This television monitor should never be placed near or over a radiator or heat register. This television monitor should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.
- * This television monitor should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your television dealer or local power company. For television monitor designed to operate from battery power, refer to this operating instructions.
- * This television monitor is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. IF you are unable to insert the plug fully into the outlet. try reversing the plug. If the plug should still fail to fit, contact your electrican to replace your obsolute outlet. Do not defeat the safety purpose of the polarized plug.
- * Do not allow anything to rest on the power cord. Do not locate this television monitor where the cord will be abused by persons walking on it.
- * Follow all warnings and instructions marked on the television monitor.
- * For added protection for this television monitor 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 damaged to the receiver due to lighting and powerline surges.
- * Do not overload wall outlets and extension cords as this can result in fire or electric shock.
- * Never push objects of any kind into this television monitor through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television monitor.
- * Do not attempt to service this television monitor youself as opening on removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- * Unplug this television monitor 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 television monitor.
 - c. If the television monitor has been exposed to rain on water.

- d. If the television monitor does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television monitor to normal operation.
- e. If the television monitor has been dropped or the cabinet has been damaged.
- f. When the television receivers exhibits a distinct

- change in performance-this indicates a need for service.
- * When replacement parts are required. be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- * Upon completion of any service or repairs to this television monitor, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.

FUNCTION LOCATIONS

- Upper case
- Front escutcheon
- Picture tube (CRT)
- Power switch
- Power lamp
- V. Hold (Driver control)
- H. Hold (Driver control)
- Brightness
- Contrast
- Video input connectors (bridged)
- Video termination switch (75-ohm ON/OFF)



SET UP & OPERATION

Position the picture monitor in the desired location and connect the power cord to an AC outlet. And make sure that the monitor is installed securely, in a stable condition.

Make the coaxial-cable connection for video signal between the picture monitor and the signal source (video camera or VTR etc.). And make certain that all connectors are properly and fully mated, and the locking rings are securely tightened.

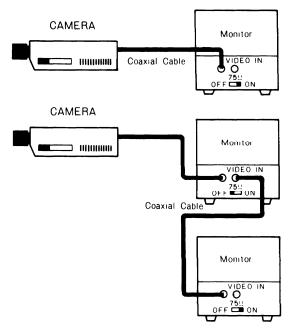
Set the video termination switch to 75-ohm if one monitor is to be used. (See below)

In case one camera and several monitors are to be used, switch off the 75-ohm termination switches of all monitors except the last one in the train.

If provided, set the sync internal/external switch to internal (if applicable).

After switching on the monitor and setting up the raster, adjust the brightness and contrast controls for the most pleasing picture.

BASIC CONNECTION



INTERNAL ADJUSTMENTS

All internal controls are factory set and locked at the optimum position. Adjustment should not be undertaken except by a qualified service technician, and only when absolutely necessary. This information is provided only as a source of reference for the qualified service technician.

There are two adjustments on the monitor main board.

HORIZONTAL FREQUENCY: This is a screwdriver adjustment to control picture horizontal position when the H. Hold cannot follow.

VERTICAL HEIGHT: This is also a screwdriver adjustment to correct a height when the center circle of the test pattern is oblong vertically or horizontally.

MAINTENANCE

Although PM-930 picture monitor is designed to withstand long continuous service, it is recommended to conduct periodical inspections for longer satisfactory service with full performance.

Check the following points periodically,

- (1) The knobs and adjustments for correct positions ${}_{i}$ and connections.
- (2) Connectors for good contact.
- (3) Input and output circuits for short-circuit.
- (4) Internal temperature drift.
- (5) Soldering portions.

And keep the monitor interior clean as much as possible.

PARTS LIST

- ◆ MARKED VALUES ARE SUBJECT TO CHANGE WITHOUT NOTICE ★ MARKED PARTS ARE CRITICAL COMPONENT OF X-RAY RADIATION

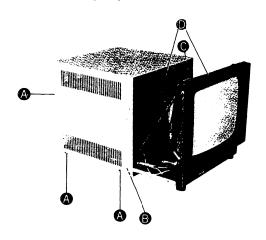
Components identified by the riangle symbol have special characteristics

These critical safety components are designed to "fail safe" under abnormal conditions. The failure of any one component often causes stress in other components which could lead to smoke of fire or other hazards. Because of this, components are selected and tested under actual fault conditions to ensure safe operation. Replacement with anything other than the identical Ikegami part may present a hazard.

	• .			
(1) MAI	N CHASSIS			
NO.	DESCRIPTION			
, PC1	Ol Power Cord with Plug	SPT-2 VM	10228AP	
	Ol Slide Switch	ESD-275		
+ 🕭 T10		ST4-B27058-B4		
, ¹ , F10	l Fuse	0.25A 250	V	
.^\ F10	l-a Fuse Holder	X-N1161#0	1	
* 🐴, V10	Cathode Ray Tube	230BDB4		
★ 🕭 DY10	Ol Deflection York	ST4-B0350		
R10	Carbon Film Fixed Resistor	10 ohms	1/4W	
C10	Polyester Film Capacitor	0.01uF	50WV	
CN1		171822-6		
CN1	02 Connector Housing	W-A5002-1	N#02	
	Insulock Tie	BK-1		
	Insulock Tie	T-30R		
(2) P.W.	B. UNIT			
NO.	DESCRIPTION			
C1	Electrolytic Capacitor	100µF	16WV	
C2	Electrolytic Capacitor	100µ F	16WV	
С3	Ceramic Capacitor	100pF	50WV	
C4	Electrolytic Capacitor	470µ F	16WV	
C5	Electrolytic Capacitor	220µ F	10 W V	
C6	Ceramic Capacitor	560pF	50WV	
C7	Ceramic Capacitor	1000pF	50WV	
C8	Electrolytic Capacitor	10µ F	160WV	
C9	Metalized Polyester Film Capacitor	0.22µF	200WV	
C10	Polyester Film Capacitor	0.047µF	100WV	
C11	Electrolytic Capacitor	1μ F	50WV	
C12	Polyester Film Capacitor	0.022µF	50WV	
C13	Electrolytic Capacitor	100µF	16WV	
C14	Polyester Film Capacitor	0.022µF	50WV	
C15	Polyester Film Capacitor	0.01µF	50WV	
C16	Tantalum Capacitor	0.33µF	35WV	
C17	Tantalum Capacitor	4.7µF	16WV	
C18	Tantalum Capacitor	4.7µF	16WV	
C19	Electrolytic Capacitor	10µF	50WV	
C20	Electrolytic Capacitor	33u F	16WV	
C21	Electrolytic Capacitor	1000µF	16WV	
C22	Electrolytic Capacitor	220µ F	16WV	
C23	Electrolytic Capacitor	1000μF	16WV	
C24	Electrolytic Capacitor	10µ F	50WV	
C25	Not Used			
C26	Polyester Film Capacitor	0.1µF	200WV	
.^\ C27	Electrolytic Capacitor	2200µF	35WV	35VP2200
C28	Electrolytic Capacitor	470µF	25 W V	
C29	Polyester Film Capacitor	0.01µF	50 w v	
C30	Electrolytic Capacitor	1μF	50wv	
C31	Not Used			
C32	Ceramic Capacitor	100pF	50WV	
C33	Not Used			
C34	Polyester Film Capacitor	0.022µF	50WV	
C35	Polyester Film Capacitor	0.022µF	50WV	
C36 C37	Electrolytic Capacitor	4.7µF	50WV	
C38	Polyester Film Capacitor	0.01 µF	50WV	
C39	Electrolytic Capacitor	1000µF 0.0039µF	16WV	
C40	Polypropylene Film Capacitor		50WV	
C41	Polyester Film Capacitor Polyester Film Capacitor	0.001µF	50WV	
C41	Polyester Film Capacitor Polyester Film Capacitor	0.01µF 0.01µF	50WV 50WV	
* △ C43	Polypropylene Film Capacitor	0.01PF		FC0F44731
* △ C44	Polypropylene Film Capacitor		400WV 400WV	ECQF4473K
C45	Electrolytic Capacitor	0.047µF 1000µF	400WV 16WV	ECQF4473K
C46	Electrolytic Capacitor	3.3µF	350WV	
C47	Polypropylene Film Capacitor	0.01µF	630WV	
C48	Electrolytic Capacitor	10µF	25WV BP	
C49	Electrolytic Capacitor	1µF	50WV	
C50	Polyester Film Capacitor	0.033µF	50WV	
C51	Electrolytic Capacitor	1µF	50WV	
C52	Electrolytic Capacitor	10011F	16WV	
D1	LED	LN25RCP		
D2	Silicon Diode	RM-1Z		
D3	Silicon Diode	151588		
D4	Silicon Diode	RU-1A		
D5	Silicon Diode	15581		
D6	Silicon Diode	RU-1A		
, 🏡 D7	Silicon Diode	S4VB10 or	RB401	
D8	Silicon Diode	15581	-	
D9	Not Used	-		
D10	Silicon Diode	1S1588		
ICl	Integrated Circuit	AN5763		
* IC2	Integrated Circuit	AN5753		
★ ⚠ IC3	Integrated Circuit	SI-3122P		

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Peaking Coil
                                                  47 PH
                                                  ST4-B0360
           H. Width Coil
 * L3
           H. Linearity Coil
                                                  ST4-B0338-C
                                                  2SC1815(Y)
           Silicon Transistor
   01
    Q2
                                                  2SC2441(F)
           Silicon Transistor
    Q3
Q4
           Silicon Transistor
                                                  25A1015(Y)
           Silicon Transistor
                                                  2SD1069 or 2SC3174
    R1
R2
           Carbon Film Fixed Resistor
                                                  75 ohms
                                                             1/4W
           Not Used
                                                              1/4W
    R3
R4
           Carbon Film Fixed Resistor
                                                  12K ohms
           Carbon Film Fixed Resistor
                                                  18K ohms
                                                              1/4W
    R5
           Carbon Film Fixed Resistor
                                                  1K ohms
                                                              1/4W
    R6
           Carbon Film Fixed Resistor
                                                  100 ohms
                                                              1/4W
                                                              1/4W
    R7
           Carbon Film Fixed Resistor
                                                  47 ohms
    R8
           Carbon Film Fixed Resistor
                                                  3.3K ohms
                                                              1/4W
           Carbon Film Fixed Resistor
                                                  270K ohms
                                                              1/4W
    R10
           Carbon Film Fixed Resistor
                                                  75 ohms
                                                              1/4W
           Carbon Film Fixed Resistor
    R11
                                                  82 ohms
                                                              1/4W
                                                  3.9K ohms
           Carbon Film Fixed Resistor
    R13
           Metal Oxide Film Fixed Resistor
                                                  5.6K ohms
                                                              1 W
           Carbon Film Fixed Resistor
                                                  390K ohms
    R14
           Carbon Film Fixed Resistor Carbon Film Fixed Resistor
 * R15
                                                  47K ohms
                                                              1 / 4W
                                                  56K ohms
                                                              1/4W
    R16
 △ R17
           Carbon Film Fixed Resistor
                                                  4.7 ohms
                                                              1/4W
                                                                       RD25S 4.7 ohms J
    R18
           Carbon Film Fixed Resistor
                                                  150 ohms
                                                              1/4W
1/4W
    R19
           Carbon Film Fixed Resistor Carbon Film Fixed Resistor
                                                  1K ohms
                                                  680 ohms
                                                              1/4W
                                                              1/4W
    R21
           Carbon Film Fixed Resistor
                                                  220 ohms
    R22
           Carbon Film Fixed Resistor
                                                              1/4W
                                                  2.2K ohms
    R23
           Carbon Film Fixed Resistor
                                                  330 ohms
                                                              1/4W
    R24
           Carbon Film Fixed Resistor
                                                  100K ohms
                                                              1/4W
           Carbon Film Fixed Resistor
    R25
                                                   100 ohms
                                                              1/4W
 * R26
           Carbon Film Fixed Resistor
                                                  68K ohms
                                                              1/4W
 * R27
           Carbon Film Fixed Resistor
                                                  10K ohms
                                                              1/4W
           Carbon Film Fixed Resistor
Carbon Film Fixed Resistor
                                                              1/4W
1/4W
   R28
                                                  3.3K ohms
    R29
                                                  6.8 ohms
           Carbon Film Fixed Resistor
                                                              1/2W
    R30
                                                  1 ohms
    R31
           Not Used
    R32
           Carbon Film Fixed Resistor
                                                  68K ohms
                                                              1/4W
                                                   4.7 ohms
                                                                       R50A 4.7 ohms J
 ⚠ R33
           Carbon Film Fixed Resistor
                                                              1/2W
    R34
           Carbon Film Fixed Resistor
                                                  12K ohms
                                                              1/4W
    R35
                                                   100 ohms
                                                              1/4W
           Carbon Film Fixed Resistor
           Carbon Film Fixed Resistor
                                                   15K ohms
                                                              1/4W
    R37
           Metal Oxide Film Fixed Resistor
                                                  120 ohms
                                                              1W
★ / R38
           Cement Filled Fixed Resistor
                                                  47 ohms
                                                               7W
                                                                       MPS07N 470K
    R39
           Carbon Film Fixed Resistor
                                                  15K ohms
           Carbon Film Fixed Resistor
Carbon Film Fixed Resistor
    R40
                                                   4.7K ohms
                                                   39 ohms
    R41
    R42
           Carbon Film Fixed Resistor
                                                   18K ohms
                                                              1/4W
    R43
           Carbon Film Fixed Resistor
                                                   3.3K ohms
                                                              1/4W
    R44
           Carbon Film Fixed Resistor
                                                   27K ohms
    R45
           Carbon Film Fixed Resistor
                                                   220 ohms
                                                              1 / 4W
    R46
           Carbon Film Fixed Resistor
                                                   2.2K ohms
                                                              1/4W
           Carbon Film Fixed Resistor
                                                   68K ohms
    R48
           Carbon Film Fixed Resistor
                                                   220 ohms
                                                               1/4W
    R49
           Carbon Film Fixed Resistor
                                                   1.5K ohms
                                                              1/4W
                                                   75 ohms
    R50
           Carbon Film Fixed Resistor
                                                               1/4W
                                                                        RD25S 75 ohms J
                                                                       KD25S 10 ohms J
    RSI
           Carbon Film Fixed Resistor
                                                   10 ohms
                                                               1/4W
                                                   47 ohms
    R52
           Carbon Film Fixed Resistor
                                                               1/2W
    R53
           Carbon Film Fixed Resistor
                                                   1K ohms
                                                   3.3K ohms
    R54
           Carbon Film Fixed Resistor
                                                               1/2W
                                                                       RSF1B 10 ohms J
           Metal Oxide Film Fixed Resistor
                                                   10 ohms
 /\ R55
    R56
           Metal Oxide Film Fixed Resistor
                                                   2.7K ohms
                                                               1W
    R57
           Carbon Film Fixed Resistor
                                                   1M ohms
            Carbon Film Fixed Resistor
                                                   680K ohms
                                                               1/4W
    R59
           Carbon Film Fixed Resistor
                                                   680 ohms
                                                               1/4W
           Carbon Film Fixed Resistor
                                                   1.5M ohms
                                                               1/4W
    R60
            Carbon Film Fixed Resistor
                                                   330K ohms
                                                               1/4W
    R62
           Carbon Film Fixed Resistor
                                                   33K ohms
                                                               1/4W
    R63
           Carbon Film Fixed Resistor
                                                               1/2W
                                                   47K ohms
    VR1
            Variable Resistor
                                                   500 ohms
                                                               lin. taper
                                                   50K ohms
    VR2
           Variable Resistor
                                                               lin. taper
    VR3
           Variable Resistor
                                                               lin, taper
    VR4
            Variable Resistor
                                                   1K ohms
                                                               lin. taper
    VR5
           Variable Resistor
                                                   1K ohms
                                                               lin. taper
    VR6
            Variable Resistor
                                                   300K ohms
                                                               lin. taper
    T1
           H. Drive Transformer
                                                   ST-603431
* <u>A</u> T2
TH1
                                                   ST4-B0326
            Flyback Transformer
            Thermistor
                                                   TD5-C310
    SWI
           Switch, Slide
                                                   SLP-2-1022
    CN1
                                                   BNC
            Receptacle
    CN2
            Receptacle
                                                   BNC
           Connector Plug
    CN3
                                                   171825-6
            Connector Housing
                                                   S7-502B-59
    CN5
            Connector Plug
                                                   W-P3002-#02
                                                   or W-P3502-#02
    E1
            Printed Wiring Board
                                                   PWP-93-11
```

PICTURE TUBE (CRT) REPLACEMENT



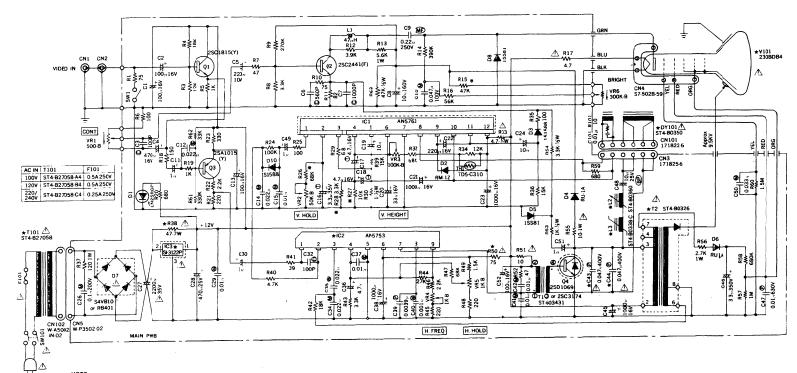
- (1) Switch off the power and unplug the power cord.
 - In the case of tube replacement, making sure that the monitor has been switched off for several minutes to allow the tube anode to discharge.
- (2) Take out the five screw from a top cover, and remove the cover.
- (3) Take out the 2 screws from a CRT support bar.
- (4) Carefully remove CRT socket, connector to the deflection coil assembly and anode cap.
- (5) Take out the 4 screws
 and remove old CRT.
- (6) Put new CRT for replacement, and observe reverse sequence in assembling the cover.

Note that the picture tube (CRT) must be replaced only with identical part number.

CAUTIONS

- (1) The face of the picture tube is a part of a high Vacuum. Scoring, scratching or applying undue pressure may result in implosion of the picture tube, and serious personal injury may result.
- (2) The components marked with * in parts 1:st and schematic diagram are critical ones of X-ray radiation emission. Replacement of these critical components should check +12V line to +12V ±0.5V and anode voltage of CRT to 9.5KV ±1KV.

SCHEMATIC DIAGRAM

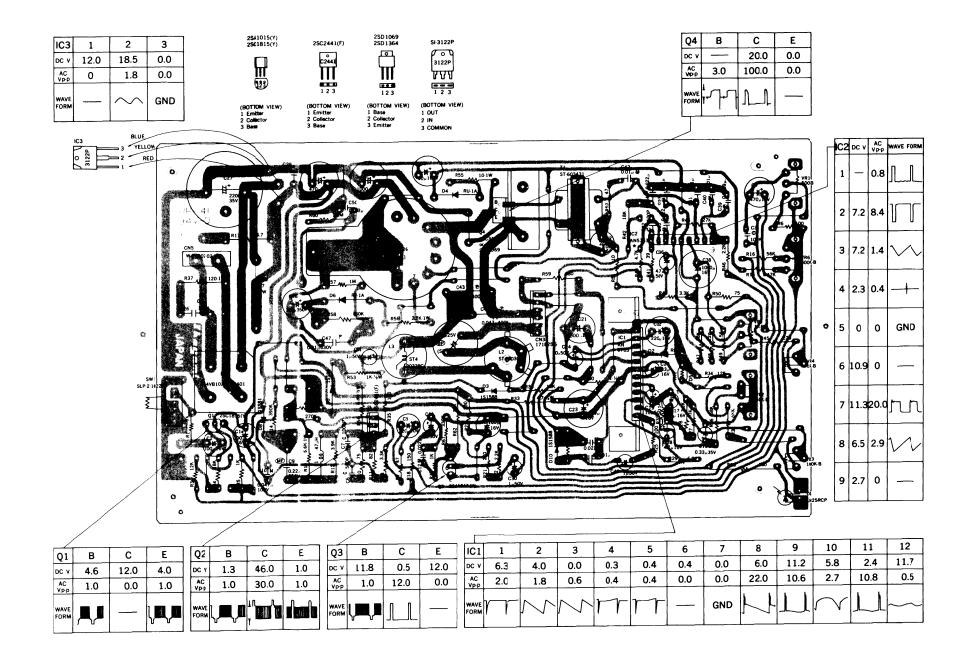


- 1. RESISTORS ARE IN OHMS, 1/4 W UNLESS OTHERWISE SPECIFIED.
 2. CAPACITORS ARE IN FARADS, 50WV UNLESS OTHERWISE SPECIFIED.

- 3. * MARKED VALUES ARE SUBJECT TO CHANGE WITHOUT NOTICE.
 4. * MARKED PARTS ARE CRITICAL COMPONENT OF X-RAY RADIATION.
- Components identified by the symbol have special characteristics for safety.

These critical safety components are designed to "fail safe" under abnormal conditions. The failure of any one component often causes stress in other components which could lead to smoke of fire or other hazards. Because of this, components are selected and tested under actual fault conditions to ensure safe operation. Replacement with anything other than the identical Ikegami part may present a hazard.

PARTS LOCATION



SPECIFICATIONS

23cm (9") diagonal PICTURE TUBE

Implosion protected

Type 230BDB4 or equivalent

VIDEO INPUT LEVEL

VS 1.0Vp-p

VIDEO INPUT IMPEDANCE

75 Ω or high (switchable)

VIDEO OUTPUT LEVEL

30Vp-p

SCANNING RATES

HORIZONTAL VERTICAL

15.75KHz or 15.625KHz

60Hz or 50Hz

VIDEO FREQUENCY RESPONSE

HORIZONTAL RESOLUTION 600 lines or better

(at center)

SIGNAL-TO-NOISE RATIO

55dB or better (except sync noise)

6MHz (+1dB, -3dB)

LINEARITY

4% or less (of picture height)

STABILITY

±10% of rated voltage

SPOT KILLER

Prevents spot burn-in of CRT with loss of power.

ISOLATION

More than $50M\Omega$ between AC input terminal and Cabinet

BRIGHTNESS

More than 30FL continuously variable against rated input

white signal

VIDEO AMPLIFIER CIRCUIT

MAXIMUM GAIN

FREQUENCY CHARACTERISTIC

More than 33dB Refer to 100KHz

60Hz ∿ 6MHz: within +1, -3dB

below 60Hz, over 6MHz: falling down characteristic

WAVEFORM DISTORTION

Sag: less than 10% (against 60Hz square wave)

Overshoot: Under 10% (against 15KHz square wave) Rise time: less than 60nS (against 250KHz

square wave)

SIGNAL-TO-NOISE RATIO

Refer to input signal, output signal is as follows: Hum noise: less than -55dB Synchronous noise: less than -35dB

DEFLECTION CIRCUIT SYNC STABILITY

RASTER DISTORTION DEFLECTION DISTORTION BLANKING DURATION

ENVIRONMENTAL TEMPERATURE

CONNECTOR

POWER REQUIREMENT

POWER CONSUMPTION

DIMENSIONS (W.H.D.)

WEIGHT

Operation stable within input signal range of VS 0.5 \sim 2.0Vp-p

Less than 3%

H and V each less than 3%

H within 18% V within 6%

-10°C ∿ +45°C BNC connector

100/120V 60Hz or 220/240V

Less than 25W

219.5(W) x 219.5(H) x 240(D) mm. 8-41/64"(W) x 8-41/64"(H) x 9-29/64"(D)

4.9Kg (10.8 lbs) approximately

* Design and specifications are subject to change for improvement.



IKEGAMI ELECTRONICS (U.S.A.), INC.

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Phone: (201) 368-91/1

3445 KASHIWA STREET, TORRANCE, CALIF. 90505 Phone: (213) 534-0050

SOUTHWEST OFFICE:

13721 OMEGA ROAD, DALLAS, TEXAS 75234

MIDWEST OFFICE:

WEST COAST OFFICE:

12623 WOODY GROVE DRIVE, ST. LOUIS, MO 63141

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