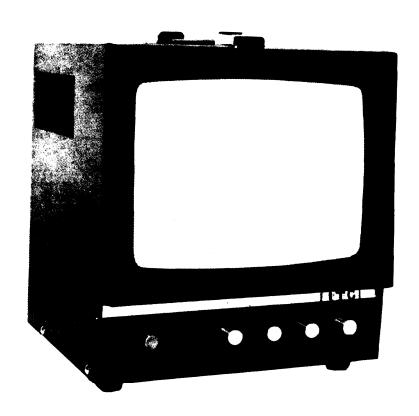
OPERATING INSTRUCTIONS AND SERVICE MANUAL

MODEL PM-96 / PM-96T CCTV PICTURE MONITOR



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Part 1 Introduction

This 9-inch picture monitor is for closed circuit television systems in every phase and can be used both for general and high-standard professional applications in accordance with TV standards in use.

This monitor requires single phase 100/117VAC 60Hz or 220/240VAC 50Hz power source for full operation, and receives one video signal of nominal 1.4Vp-p composite.

There are two types, PM-96 and PM-96T , depending on sync signal to be applied.

PM-96 is for internal sync signal use only, and PM-96T is for both internal and external sync signal use.

This unit is highly engineered equipment for the best electrical and mechanical performances for long and trouble-free service.

1.1 Electrical Features:

- * Solid-state circuitry is used throughout except the picture tube.
- * Printed circuit is used for easy and minimum maintenance.
- * Transformer coupled power supply is utilized for good isolation from the power line.
- * A highly stabilized and well filtered current supply is furnished for the best stability.
- * High resolution is guaranteed.
- * DC restoration circuits is built in and is made by selecting the switch ON-OFF.

1.2 Mechanical Features:

- * Smallest size and rugged construction insure the ease of installation of the equipment.
- Carrying handle is equipped for portability.
- * Picture tube is self-protective type with heavy front glass and metal frame.
- * Inside construction is designed so as to make easy and safe maintenance.
- * Cabinet is finished with deep blue and black tones for attractive equipment appearance.
- * Panel receptacles mate with type PL-259 or equivalent coaxial connectors.

Part 2 Installation

Installation of this monitor will be very easily and quickly performed by the following procedure.

2.1 Inspection:

After unpacking, inspect for any missing components, defective part, control knob looseness, power cord and front glass damage, etc.

2.2 Installation:

After checking the equipment, install it at any convenient place for full operation. The following notes should be observed for the best picture reproduction.

- 1. Make sure that no vibration exists near the equipment.
- 2. Do not face the monitor into direct sunlight or other bright light.

- Create sufficient space for ventilation between this unit and other equipment by providing at least two-inch clearance around the monitor.
- 4. Make sure that environmental temperature and humidity are not excessive.

For monitoring, in general, several kinds of system configurations are available as follows. The monitor users can select any system from the basic ones below.

Basic Systems:

- A. One monitor and one CCTV camera.
- B. One monitor and multiple CCTV cameras.
- Multiple monitors and one CCTV camera.

A. One monitor and one CCTV camera:

Install a monitor and a camera as shown in Fig. 1 and connect the power plugs to walloutlets, etc. Power switches should be at OFF position.

Connect the one of two VIDEO IN connectors of the monitor and the camera output by using RG-59/U or RG-11/U 75-ohm coaxial cable with PL-259 or equivalent coaxial plugs.

Set the VIDEO IN 75 Ω ON-OFF switch on the rear to ON position, and the SYNC IN INT-EXT switch to INT position. Internal synchronization is generally used in this configuration.

The system is now normally terminated and preparation is finished. For operation, read Part 3.

When external sync signal is used to synchronize an external-drive type camera, set the SYNC IN INT-EXT switch to EXT and terminate the sync signal at the monitor when the sync chain is ending at the monitor by setting the SYNC IN 75Ω ON-OFF switch to ON position. When the sync chain is ending at the camera, set the SYNC IN 75Ω ON-OFF switch to OFF position at the monitor and make a termination at the camera.

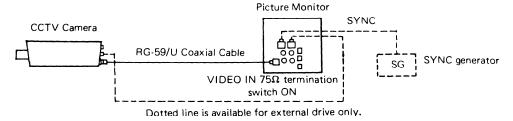


Fig. 1 One monitor and one CCTV camera

B. One monitor and multiple CCTV cameras:

Install a monitor and cameras as described in Fig. 2. Install a suitable "video switcher".

Connect the cameras and the switcher inputs by using RG-59/U or RG-11/U cozxial cables.

Connect the switcher output and one of the VIDEO IN connectors of the monitor by the same type coaxial cable.

Set the VIDEO IN 75 Ω ON-OFF switch of the monitor to ON position and the SYNC IN INT-EXT switch to INT position.

When external sync signal is used to synchronize external drive cameras, set the SYNC IN INT-EXT switch to EXT side and terminate the sync signal chain by setting the SYNC IN 75 Ω ON-OFF switch to ON when the chain is ending at the monitor side. When the sync chain is ending at a camera like CCTV Camera (1) in Fig. 2, set the SYNC IN 75 Ω ON-OFF switch to OFF position and terminate it at the camera. Configuration for B. is completed, and see Part 3.

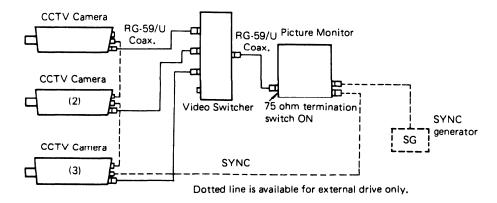


Fig. 2 One monitor and multiple CCTV cameras

C. Multiple monitors and one CCTV camera:

C-1 Series monitor (Bridge) connection:

Install monitors and a camera as described in Fig. 3.

Connect the camera and the first monitor by a RG-59/U or RG-11/U coaxial cables, and set the VIDEO IN 75Ω ON-OFF switch to OFF position.

Connect the other VIDEO IN receptacle of the first monitor and one of the VIDEO IN receptacles of the second monitor by the same type coaxial cable. If only two monitors are used, set the VIDEO IN 75 Ω ON-OFF switch of the second monitor to ON position. If more than two monitors are used, VIDEO IN 75 Ω ON-OFF switch of the second monitor is to be set to OFF position, and connect the remaining receptacle of the second monitor to one of receptacles of the third monitor.

Termination should now be made at the third monitor by placing the VIDEO IN 75Ω ON-OFF switch to ON position when only three monitors are used.

Systems utilizing more than three monitors can also be made following the above procedure and the termination should always be made at the last monitor.

When external sync signals are to be used, connect the sync generator, camera and monitors also in the bridge configuration. Terminate the sync chain at the last monitor when the chain is ending at the last monitor by setting the SYNC IN 75Ω ON-OFF switch to ON position. The remaining switches should be set to OFF positions just like in the video chain. All the SYNC IN INT-EXT switches should be placed at EXT positions. When the sync line is ending at the camera, termination should be made at the camera end. System connection and preparation are completed, and refer to Part 3 for operation.

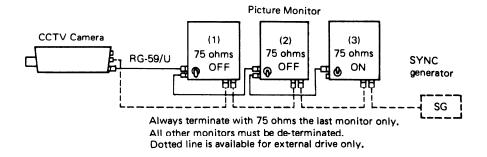


Fig. 3 Multiple monitors and one CCTV camera (1)

C-2 Parallel connection (Use of a distribution amplifier):

Install monitors and a camera as described in Fig. 4.
Install a suitable "video distribution amplifier" that has one input and multiple outputs.

Connect the camera output and the distributor input by RG-59/U or RG-11/U coaxial cable.

Connect the distributor outputs and the each VIDEO IN receptacle of monitors using the same type cables.

Set the all VIDEO IN 75 Ω ON-OFF switches of monitors to ON positions.

When external sync is to be used, terminate it by placing the SYNC IN 75Ω ON-OFF switch at ON position at the last monitor or the last camera in the bridge connection of external sync signal as in the other system connections described above.

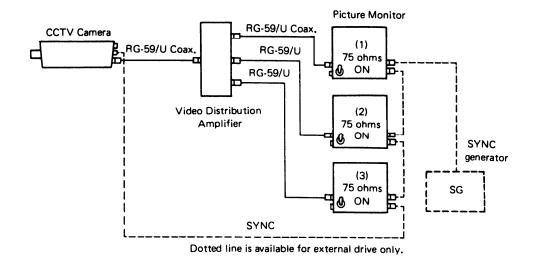


Fig. 4 Multiple Monitors and one CCTV camera (2)

NOTE: FOR EXTERNAL SYNC SYSTEMS

For external sync configurations described above, a sync generator which has tow or more sync outputs can be used most rationally to facilitate driving monitor or monitors and camera or cameras separately. When only a single output sync generator is available, make cable connections described in Fig. 1 to 4 or use a sync distribution amplifier between the sync generator and the camera and monitor chains as shown below. Line terminations should be made at both ends separately in both cases.

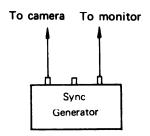


Fig. 5 Multiple output sync generator system

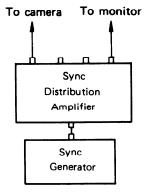


Fig. 6 Single output sync generator system

Part 3 Operation and Adjustment

- * Switch on the camera or cameras and monitor or monitors (and sync generator).
- * Allow about 30 seconds for warm-up.
- * Adjust the CONT. and BRIGHT controls to get the best picture on the screen.
- * Adjust the H. HOLD and V. HOLD controls back and forth for picture locking if necessary.
- Inside controls are preset and require no adjustment.

3.1 Power Supply:

This monitor is equipped with a high-grade regulated DC power supply and requires no adjustment. This power supply provides + 12VDC for ten transistors.

3.2 Location of Controls:

A. Panel Controls

1. POWER

Push the POWER button, and the pilot lamp will light.

2. H. HOLD

When the picture shifts, or slanting horizontal stripes and bars appear, adjust the horizontal hold control.

3. V. HOLD

When the picture is overlapped or rolls up or down, adjust the vertical hold control.

4. CONT.

When the picture contrast is too weak or strong, adjust the contrast control.

5. BRIGHT

When the picture is too bright or dark, adjust the brightness control.

6. 75Ω ON-OFF (VIDEO IN)

Set the switch to ON when the video signal is required to be terminated.

7. 75Ω ON-OFF (SYNC IN)

(available for PM-96Tonly)

Set the switch to ON when the external sync is required to be terminated.

8. INT-EXT (SYNC IN)

(available for PM-96T only)

Set the switch to EXT when external sync is to be used, otherwise set it to INT position.

9. DC REST ON-OFF

DC restoration works when the switch is set to ON position.

B. Controls on Printed Circuit Board

Six screw driver controls are furnished on the printed circuit board. These controls should be used by authorized technicians or engineers only with the aid of a standard TV test pattern and a light box.

1. H. FREQ

When the pattern is offset, or stripes and bars appear and cannot be corrected with the horizontal hold control on the front panel, adjust the horizontal frequency control.

2. FOCUS

When the pattern is blurred (the raster is out of focus), adjust the focus control.

V. BIAS

When the vertical driver Q6 or output transistor Q7 is replaced, adjust the vertical bias control to provide proper base bias voltage for normal picture linearity.

4. V. LIN

When the pattern is distorted at the top or bottom, adjust the vertical linearity control for best picture.

5. HEIGHT

When the center circle of the pattern is vertically or horizontally distorted, adjust the height control.

6. 12V ADJ.

When the B + voltage is higher or lower than the rated voltage, adjust the 12V setting control.

NOTE:

The H. FREQ, V. LIN and HEIGHT controls are accessible from the associated holes on the rear panel. When all the controls on the board are to be readjusted, it is advisable to remove the equipment cover. Be careful not to touch the high voltage section during adjustment.

Part 4 Maintenance

4.1 General

This equipment is designed for continuous and trouble-free service. It requires minimum maintenance consisting of occasional cleanings of the picture tube face and periodical checks of controls, connectors, etc.

- The picture tube face and the front protective acryl should be cleaned occasionally.
 The front acryl is removable by taking off the acryl plate removing the two side screws. The picture tube face is accessible in this condition. Clean the face and acryl with deer skin or lens tissue.
- 2. Check that controls are securely fastened and work perfectly.
- 3. Check that all coaxial connectors are securely locked and indicate no looseness.

4.2 Transistors

- 1. Although transistors are very durable against mechanical shocks, they may easily be damaged by electrical shocks. When this equipment's circuits are to be checked in operation, it should be done very carefully, and circuits should never be shorted out by multimeter probes and so on.
- 2. Install or remove parts of circuits only after power has been turned off.
- 3. Be careful not to heat components excessively when soldering.
- 4. Never use any soldering iron which leaks AC current.
- 5. Always use high impedance probe when the oscilloscope is used for checking waveforms and voltages.
- 6. It is much advisable to use a VTVM rather than a conventional multimeter when checking transistor circuits.
- 7. In case of suspicion of faulty transistors, it is advisable to determine general cause by checking forward and reverse resistances or measure Ico with a transistor checker.

Part 5 Specifications

1. Picture Tube: CT-531 (9-inch) or equivalent

2. Video Input: 1.4Vp-p composite or 1.0Vp-p non-composite.

Black negative

3. External Sync Input: 4Vp-p, negative (available for PM-96T only)

4. Input Impedance: 75 ohms nominal or high impedance bridging

switchable

5. Scanning Rate:

Horizontal: 15.75kHz or 15.625kHz

Vertical: 60Hz or 50Hz
Horizontal Resolution (Center): More than 500 lines

7. Signal-to-Noise Ratio: Synchronous: More than 35dB

Hum: More than 55dB

8. Geometric Distortion: Less than 5%

9. Power Requirements: 100/117VAC, 60Hz or 220/240VAC, 50Hz,

single phase

10. Power Consumption: 25VA approximately

11. Ambient Temperature: $0^{\circ}C - 40^{\circ}C$

12. Dimensions: 8.58"(W) x 9.25"(H) x 8.85"(D)

218(W) x 235(H) x 225(D) mm

13. Weight: 14 lbs. (6.3kg) approximately

14. Type of Panel Receptacles: UHF bulkhead coaxial connector, UG-266/U or

equivalent

Part 6 Parts List

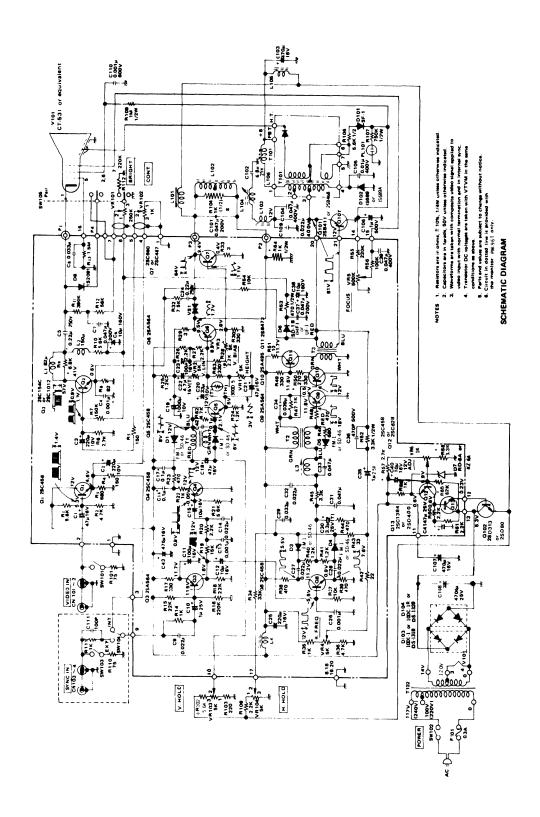
1. Printed Circuit Board (Model PM-96/96T)

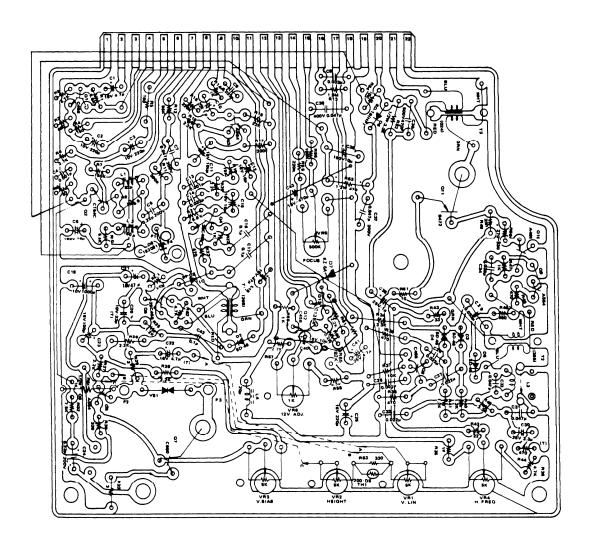
ITEM	DESCRIPTION			DESCRIPTION		
C1	Capacitor, Electrolytic	47μF, 16V	R1	Resistor, Fixed, Carbon Film	5,6K ohms, 1/4W	
C2	Capacitor, Electrolytic	220µF, 10∨	R2	Resistor, Fixed, Carbon Film	4.7K ohms, 1/4W	
C3	Capacitor, Electrolytic	220μF, 10V	R3	Resistor, Fixed, Carbon Film	680 ohms, 1/4W	
C4	Capacitor, Mylar Film	0.001µF, 50V	R4	Resistor, Fixed, Carbon Film	150 ohms, 1/4W	
C5	Capacitor, MF Tubular	0.22 μF . 200 V	R5	Resistor, Fixed, Carbon Film	150 ohms, 1/4W	
26	Capacitor, Electrolytic	10µF, 160∨	R6	Resistor, Fixed, Carbon Film	2.7K ohms, 1/4W	
27	Capacitor, MF Tubular	0.047µF, 200V	R7	Resistor, Fixed, Carbon Film	150K ohms, 1/4W	
28	Capacitor, Mylar Film	0.033µF, 50V	R8	Resistor, Fixed, Carbon Film	82 ohms, 1/4W	
C9	Capacitor, Mylar Film	0.022µF, 50V	R9	Resistor, Fixed, Carbon Film	 6.8K ohms, 1/4W 	
C10	Capacitor, Electrolytic	1μF, 25V	R10	Resistor, Fixed, Carbon Film	5.6K ohms, 1/4W	
211	Capacitor, Electrolytic	100µF, 16V	R11	Resistor, Fixed, Carbon Film	390K ohms, 1/4W	
512	Capacitor, Electrolytic	10μF, 16V	R12	Resistor, Fixed, Carbon Film	56K ohms, 1/4W	
213	Capacitor, Mylar Film	0.001µF, 50V	R13	Resistor, Fixed, Carbon Film	1.5Megohms, 1/4W	
214	Capacitor, Mylar Film	0.022µF, 50V	R14	Resistor, Fixed, Carbon Film	1K ohms, 1/4W	
C15	Capacitor, Electrolytic	10μF, 16V	R15	Resistor, Fixed, Carbon Film	22K ohms, 1/4W	
C16	Capacitor, Mylar Film	• 0.1µF, 50V	R16	Resistor, Fixed, Carbon Film	220K ohms, 1/4W	
C17	Capacitor, Mylar Film	• 0.1µF, 50V	R17	Resistor, Fixed, Carbon Film	330 ohms, 1/4W	
218	Capacitor, Electrolytic	47µF, 16V	R18	Resistor, Fixed, Carbon Film	2.2K ohms, 1/4W	
C19	Capacitor, Electrolytic	1000µF, 10V	R19	Resistor, Fixed, Carbon Film	15K ohms, 1/4W	
C20	Capacitor, Tantalum	33μF, 10V	R20	Resistor, Fixed, Carbon Film	2.2K ohms, 1/4W	
C21	Capacitor, Fantaium Capacitor, Electrolytic	47μF, 16V	R21	Resistor, Fixed, Carbon Film	5.6K ohms, 1/4W	
222	Capacitor, Tantalum	4.7μF, 16V	R22	Resistor, Fixed, Carbon Film	1K ohms, 1/4W	
C23	Capacitor, Electrolytic	100μF, 16V	R23	Resistor, Fixed, Carbon Film	470 ohms, 1/4W	
C24			R24	Resistor, Fixed, Carbon Film	1.2K ohms, 1/4W	
	Capacitor, MF Tubular	0.22µF, 200V	R25	Resistor, Fixed, Carbon Film	1,2K ohms, 1/4W	
C25	Capacitor, Electrolytic	220μF, 16V	R26	Resistor, Fixed, Carbon Film	2.2K ohms, 1/4W	
226	Capacitor, Mylar Film	0.001µF, 50V	R27	Resistor, Fixed, Carbon Film	2.2K ohms, 1/4W	
227	Capacitor, Mylar Film	0.022µF, 50V	R28	Resistor, Fixed, Carbon Film	*2.2K ohms, 1/4W	
228	Capacitor, Mylar Film	0.022μF, 50	R29	Resistor, Fixed, Carbon Film		
229	Capacitor, Mylar Film	0.033µF, 50V	R30	•	3 ohms, 1/4W	
30	Capacitor, Tantalum	3.3μF, 25V	R31	Resistor, Fixed, Carbon Film	330 ohms, 1/4W	
231	Capacitor, Mylar Film	0.047µF, 50V		Not used	7514 1 4/414	
232	Capacitor, Mylar Film	0.022µF, 50V	R32	Resistor, Fixed, Carbon Film	7.5K ohms, 1/4W	
C33	Capacitor, Mylar Film	0.047µF, 50V	R33	Resistor, Fixed, Carbon Film	3 ohms, 1/4W	
234	Capacitor, Mylar Film	0.039µF, 50V	R34	Resistor, Fixed, Carbon Film	33K ohms, 1/4W	
C35	Capacitor, Electrolytic	1μF, 25V	H35	Resistor, Fixed, Carbon Film	1K ohms, 1/4W	
C36	Capacitor, Ceramic	470pF, 500V	R36	Resistor, Fixed, Carbon Film	4.7K ohms, 1/4W	
237	Capacitor, MF Tubular	0.047µF, 200∨	R37	Resistor, Fixed, Carbon Film	10K ohms, 1/4W	
C38	Capacitor, Electrolytic	10µF, 160∨	R38	Resistor, Fixed, Carbon Film	470 ohms, 1/4W	
C39	Capacitor, Mylar Film	0.047μF, 400V	R39	Resistor, Fixed, Carbon Film	470 ohms, 1/4W	
C40	Capacitor, Electrolytic	10μF, 16V	R40	Resistor, Fixed, Carbon Film	1.2K ohms, 1/4W	
C41	Capacitor, Electrolytic	47μF, 25V	R41	Resistor, Fixed, Carbon Film	1.2K ohms, 1/4W	
C42	Capacitor, Mylar Film	0.1µF, 50V	R42	Resistor, Fixed, Carbon Film	22 ohms, 1/4 W	
C43	Capacitor, Electrolytic	470µF, 16V	R43	Resistor, Fixed, Carbon Film	33 ohms, 1/4W	
			R44	Resistor, Fixed, Carbon film	470 ohms, 1/4 W	
D1	Diode, Germanium	SD46 or FM-1	R45	Resistor, Fixed, Carbon Film	3.3K ohms, 1/4W	
D2	Diode, Germanium	SD46 or FM-1	R46	Resistor, Fixed, Carbon Film	680 ohms, 1/4 W	
23	Diode, Germanium	SD46 or FM-1	R47	Resistor, Fixed, Carbon Film	1K ohms, 1/4W	
D4	Diode, Germanium	SD46 or FM-1	R48	Resistor, Fixed, Carbon Film	470 ohms, 1/4W	
D5	Diode, Germanium	SD46 or FM-1	R49	Resistor, Fixed, Carbon Film	330 ohms, 1/4W	
D6	Diode, Silicon, 800V rms	SD-1B (HF) or UF-1	R50	Resistor, Fixed, Carbon Film	• 270 ~ 330 ohms, 1/4	
D7	Diode, Zener, 6V±0.6V	RD-6A or KZ-6A	R51	Resistor, Fixed, Carbon Film	10 ohms, 1/4W	
D8	Diode, Silicon	1S2091	R52	Resistor, Fixed, Carbon Film	3.3K ohms, 1/2W	
-	- · , - · · · · · · · · ·	.02.00	R53	Resistor, Fixed, Carbon Film	470 ohms, 1/2W	
L1	Coil, Choke, Peaking	82µH	R54	Resistor, Fixed, Carbon Film	10K ohms, 1/4W	
L2	Coil, Choke, Peaking	150μΗ	R55	Resistor, Fixed, Carbon Film	220K ohms, 1/4W	
L3	Coil, Stabilizing	ST-500267	R56	Resistor, Fixed, Carbon Film	100K ohms, 1/4W	
	Coil, Stabilizing		R57	Resistor, Fixed, Carbon Film	• 2.7 Kohms, 1/4W	
L4	Coll, Filter	20µH	R58	Resistor, Fixed, Carbon Film	* 3.3Kohms, 1/4W	
71	Translator Ciliana	300459	R59	Resistor, Fixed, Carbon Film	1K ohms, 1/4W	
21	Transistor, Silicon	2SC458		Resistor, Fixed, Carbon Film	2.2K ohms, 1/4W	
22	Transistor, Silicon	2SC 154C or 2SC1012	R61	Resistor, Fixed, Carbon Film	2.2K ohms, 1/4W	
23	Transistor, Silicon	2SA564	R62	Resistor, Fixed, Carbon Film		
Q4 OF	Transistor, Silicon	2SC458	R63	· · · · · · · · · · · · · · · · · · ·	• 4.7K ohms, 1/4W	
Q5	Transistor, Silicon	2SC458		Resistor, Fixed, Carbon Film	330 ohms, 1/4W	
Q6	Transistor, Silicon	2SA564	R64	Resistor, Fixed, Carbon Film	• 1K ohms, 1/2W	
27	Transistor, Silicon	2SC487 or 2SC680	R65	Resistor, Fixed, Carbon Film	* 82 K ohms, 1/4W	
28	Transistor, Silicon	2SC458	T1	Transformer, V. OSC.	ST-500268	
Ω9	Transistor, Silicon	2SA564	T2	Transformer, H. OSC.	ST-500265	
210	Transistor, Silicon	2SA495	Т3	Transformer, H. Drive	ST-602024-1	
Q11	Transistor, Germanium	2SB472	I			
Q12	Transistor, Silicon	2SC458 or 2SC828	1			
Q13	Transistor, Silicon	25C1384 or 25D400	1			

ITEM	DESCRIPTION		ITEN	Λ	DESCRIPTION	
TH1	Thermistor	300D-5 or TD5-A130	P1 P2	Connector, GT Connector, GT	SZ-002-129 (Pin) SZ-002-129 (Pin)	
VR1	Resistor, Variable	5K ohms, lin, taper	Р3	Connector, GT	SZ-002-129 (Pin)	
VR2	Resistor, Variable	5K ohms, lin, taper	P4	Connector, GT	SZ-002-129 (Pin)	
VR3	Resistor, Variable	5K ohms, lin, taper				
VR4	Resistor, Variable	5K ohms, lin, taper				
VR5	Resistor, Variable	500K ohms, lin, taper	52-1	02 Printed Circuit Boa	ard	
VR6	Resistor, Variable	1K ohms, lin. taper				
VS1	Varistor	VB227 or VN227B or TVS- ½D227M				

2. Main Chassis (Model PM-96/96T)

ITEM	DESCRIPTION			DESCRIPTION		
C101	Capacitor, MF Tubular	0.047µF, 200V	V101	Tube, Picture	CT-531/(9-inch)	
C102	Capacitor, Electrolytic(Non-polar)	6.8µF, 25V			or equivalent	
C103	Capacitor, Electrolytic	470μF, 16V	VR101	Resistor, Variable	250K ohms, lin. tape	
2104	Capacitor, Mylar Film	0.047µF, 400∨	VR102	Resistor, Variable	1K ohms, lin. taper	
105	Capacitor, Mylar Film	0.01µF, 400V	VR103	Resistor, Variable	5K ohms, lin, taper	
2106	Capacitor, Electrolytic	1µF, 500∨	VR104	Resistor, Variable	5K ohms, lin, taper	
107	Capacitor, Electrolytic	470µF, 16V				
108	Capacitor, Electrolytic	4700µF, 25V	XV101	Socket, Picture Tube	S7502B	
109	Capacitor, Mylar Film	0.022µF, 400V				
2110	Capacitor, Mylar Film	0.001µF, 600V				
CN 101	Receptacle, Coaxial, Panel	UHF bulkhead(UG-				
		266/U) or equivalent	}			
CN 102	Receptacle, Coaxial, Panel	UHF bulkhead (UG-	l			
		266/U) or equivalent				
0101	Diode, Silicon	SF-1				
102	Diode, Germanium	1S689 or 1S689A	l .			
0103	Diode, Silicon	10DC-1 or DS-131B	l			
0104	Diode, Silicon	10DC-1R or DS-132B				
101	Fuse, Standard	0.3A				
101	Coil, V. Output	ST-500269-1	3. Mai	in Chassis (Model PM-96T	only)	
.102	Yoke, V. Deflection	ST4-B1065				
.103	Yoke, H. Deflection	ST4-B1065	ITEM	DESCRIPTI	ON	
`04	Coil, Width	ST-602255				
05	Coil, Choke	20µH	C111	Capacitor, Ceramic	100pF, 50V	
106	Coll, Choke	10µH	ļ		• •	
			CN103	Receptacle, Coaxial, Panel	UHF bulkhead (UG-	
L101	Lamp, Pilot, Neon	BNF-3			266/U) or equivalent	
2101	Transistor, Germanium	2SB411 or 2SB468	CN104	Receptacle, Coaxial, Panel	UHF bulkhead (UG-	
2102	Transistor, Silicon	2SD313 or 2SD80			266/U) or equivalent	
3101	Resistor, Fixed, Carbon Film	75 ohms, 1/4W	R110	Resitsor, Fixed, Carbon Film	75 ohms, 1/4W	
3102	Resistor, Fixed, Carbon Film	5.6K ohms, 1/4W	R111	Resistor, Fixed, Carbon Film	1K ohms, 1/4W	
	Resistor, Fixed, Carbon Film	220 ohms, 1/4W		,	•	
3103				Switch, Slide, DPDT	SW-76B	
1104	Resistor, Fixed, Carbon Film	1K ohms, 1/2W	1 SW103			
104	Resistor, Fixed, Carbon Film Not used	1K ohms, 1/2W	•		SW-76B	
1104			•	Switch, Slide, DPDT	SW-76B	
R104 R105 R106	Not used	5.6K ohms, 1/2W	•		SW-76B	
1104 1105 1106 1107	Not used Resistor, Fixed, Carbon Film		•		SW-76B	
1104 1105 1106 1107 1108	Not used Resistor, Fixed, Carbon Film Resistor, Fixed, Carbon Film	5.6K ohms, 1/2W 750K ohms, 1/2W 2.2K ohms, 1/4W	•		SW-76B	
1104 1105 1106 1107 1108 1109	Not used Resistor, Fixed, Carbon Film Resistor, Fixed, Carbon Film Resistor, Fixed, Carbon Film	5.6K ohms, 1/2W 750K ohms, 1/2W	•		SW-76B	
R103 R104 R105 R106 R107 R108 R109 R112	Not used Resistor, Fixed, Carbon Film Resistor, Fixed, Carbon Film Resistor, Fixed, Carbon Film Resistor, Fixed, Carbon Film Resistor, Fixed, Carbon Film Switch, Slide, DPDT	5.6K ohms, 1/2W 750K ohms, 1/2W 2.2K ohms, 1/4W 1 Megohms, 1/2W	•		SW-76B	
R104 R105 R106 R107 R108 R109 R112	Not used Resistor, Fixed, Carbon Film Switch, Slide, DPDT Switch, Pushbutton	5.6K ohms, 1/2W 750K ohms, 1/2W 2.2K ohms, 1/4W 1 Megohms, 1/2W 220K ohms, 1/4W	•		SW-76B	
R104 R105 R106 R107 R108 R109 R112	Not used Resistor, Fixed, Carbon Film Resistor, Fixed, Carbon Film Resistor, Fixed, Carbon Film Resistor, Fixed, Carbon Film Resistor, Fixed, Carbon Film Switch, Slide, DPDT	5.6K ohms, 1/2W 750K ohms, 1/2W 2.2K ohms, 1/4W 1 Megohms, 1/2W 220K ohms, 1/4W	•		SW-76B	
R104 R105 R106 R107 R108 R109 R112 W101 W102	Not used Resistor, Fixed, Carbon Film Switch, Slide, DPDT Switch, Pushbutton	5.6K ohms, 1/2W 750K ohms, 1/2W 2.2K ohms, 1/4W 1 Megohms, 1/2W 220K ohms, 1/4W SW-76B	•		SW-76B	







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