

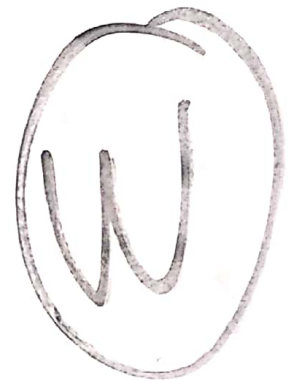
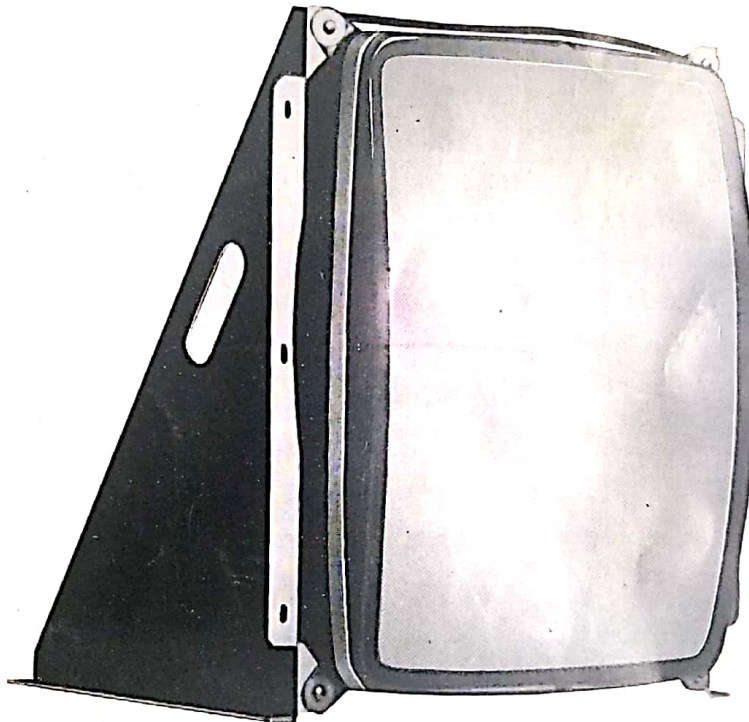
Easton Micro Electronics, Inc.

INSTRUCTION MANUAL

MODEL:EM 201

19" IN-LINE COLOR MONITOR

EM.E.



WARNING: An isolation transformer should be used between the AC power line and the AC plug of the monitor before testing or servicing is performed since the chassis and heat-sink are directly connected to one side of the AC power line which could present a shock hazard.

The chassis of the monitor should never be connected to the ground. Before testing or servicing is performed, read all the precautions labelled on the CRT and chassis.

HEAD OFFICE: 12D World's Fair Drive Somerset, New Jersey, U. S. A.

SAFETY PRECAUTIONS

1. Observe all cautions and safety label on the monitor chassis, CRT and Bracket.
2. Operation of monitor involves a shock hazard from the monitor power supplies. Work on the monitor should not be attempted by anyone who is not thoroughly familiar with precautions. Necessary when working on high voltage equipment.
3. This monitor is a hot-chassis and must use a isolation transformer to avoid a shock hazard from the monitor.
4. Keep wire away from high voltage or high temperature components.
5. If any fuse of this monitor is blown, replace it with the fuse specified in the SPECIFICATIONS.
6. Always discharge the picture tube anode to the monitor chassis to keep off the shock hazard before removing the anode cap.
7. Perfectly discharge the high potential of the picture tube before handling the tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled.

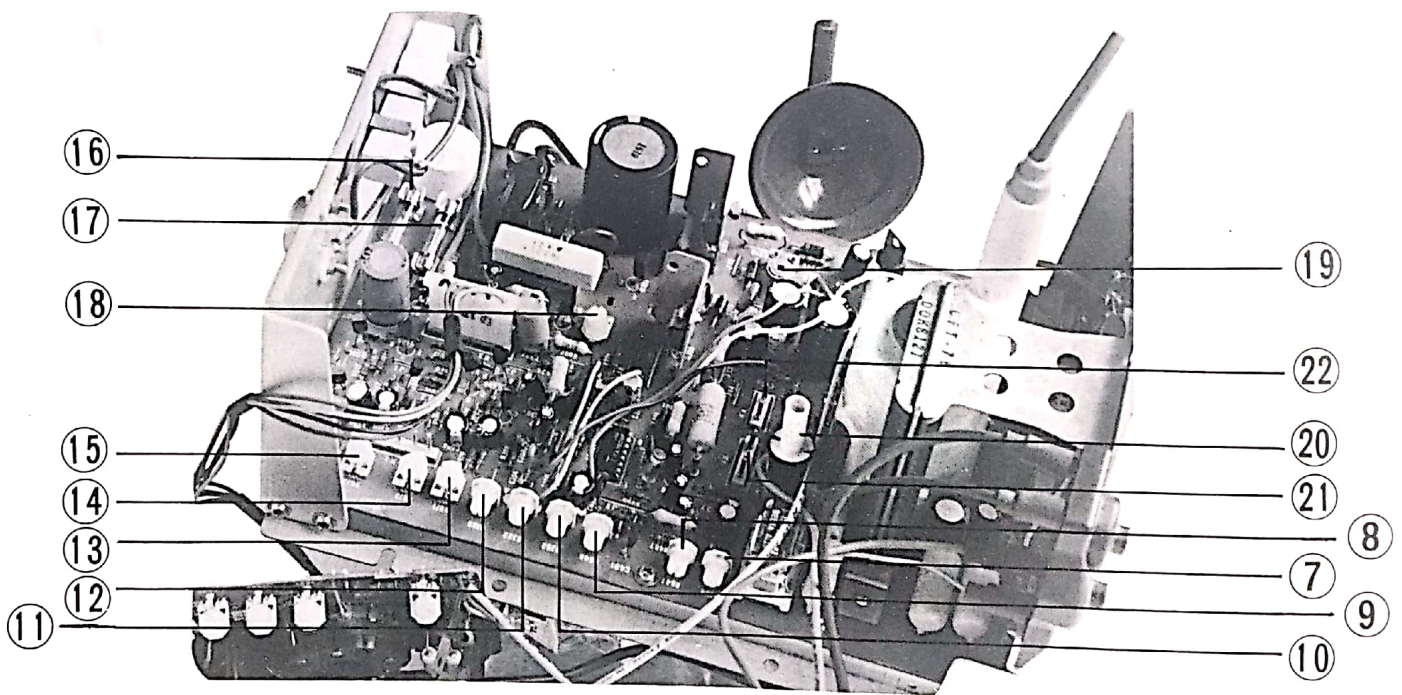
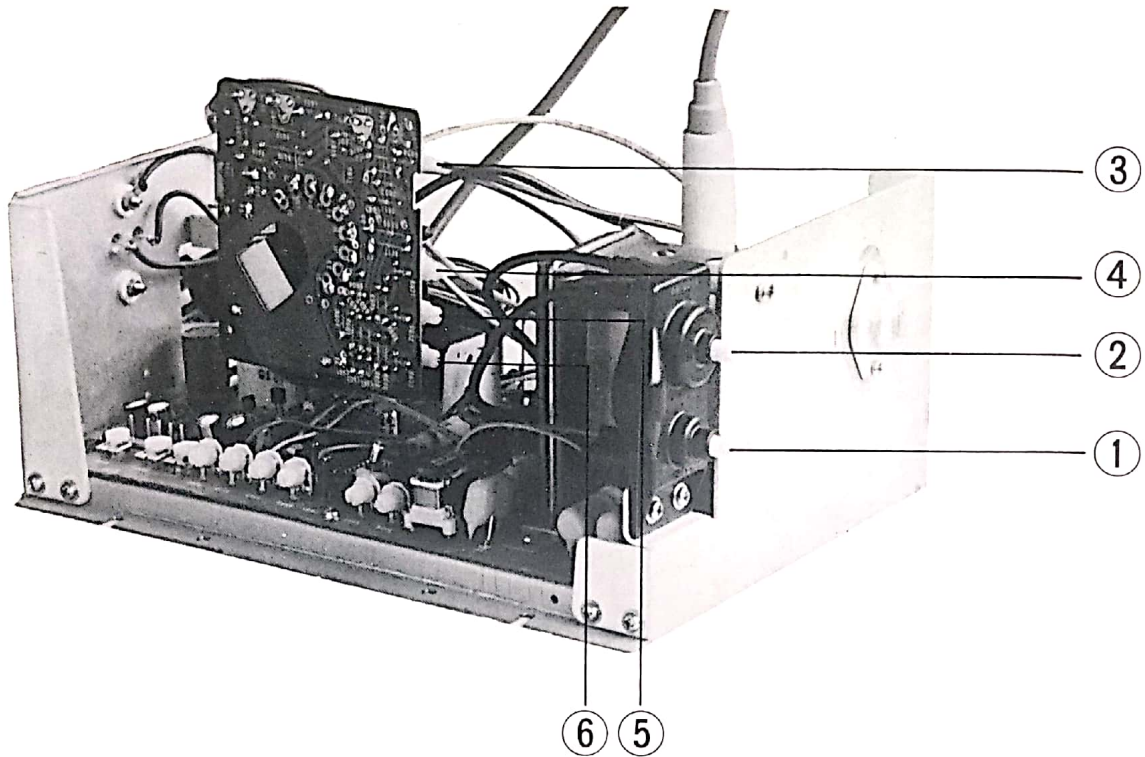
PERFORMANCE

1. Apply a suitable power source to the monitor through an isolation Transformer
2. Apply a suitable signal source to the monitor by K1 plug of Main Board
3. Set up Controls: All controls are preset at the factory, but may be adjusted the suit program material.

SPECIFICATIONS

1. Picture Tube	19" IN-Line Color, 90° Deflection
2. Power Input	AC 120V \pm 10% 60Hz
3. Power Transformer	Isolate, AC 120V 0.65A
4. Fuse	F801:4A/AC125V(UL Listed) F802:1.2A/AC125V (UL Listed)
5. Input Signal	TTL Regulation, positive, separate R. G. B. TTL Regulation, Negative SYNC.
• Video Input	15625 Hz to 15750 Hz
• SYNC Input	50 Hz to 60 Hz
• Horizontal Frequency	risetime 0.175 μ sec
• Vertical Frequency	falltime 0.05 μ sec
6. Frequency Response	overshoot 10% (Max)
7. Video Resolution	Horz. 480 Line Vert. 255 Line
8. Geometry Distortion	Horizontal Linear and Vertical Linear distortion 10% (Max) Pincushion distortion \pm 3% (Max)
9. High Voltage	30KV at zero beam current 0 μ A.
10. Operation Temperature	0°C to 55°C
Storage Temperature	- 30°C to 85°C
11. Humidity	10% to 90% (Non Condense)
12. Weight	Approx. 20kg (44.1 lb)
13. Dimensions	Approx. 420 \times 463 \times 426mm (W/H/D)
14. Power Consumption	65W

LOCATION

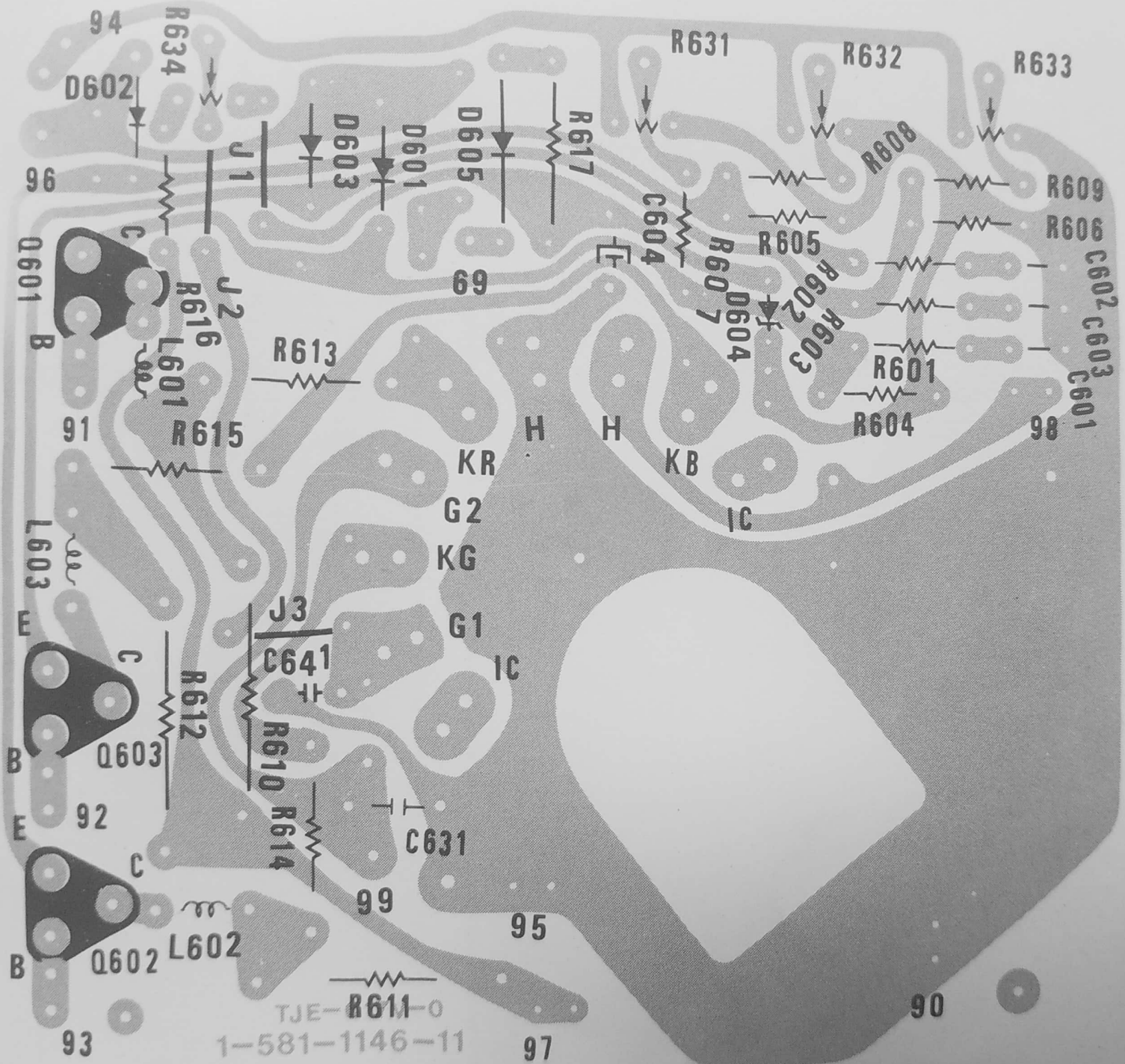


1. Focus Adjustment (Focus pack Z411)
2. Screen Adjustment(Focus pack Z412)
3. Brightness Adjustment (R634)
4. Red Bias Adjustment(R631)
5. Green Bias Adjustment(R632)
6. Blue Bias Adjustment(R633)
7. Pincushion Correction Adjustment (R354)
8. Hor. Oscillator Adjustment (R451)
9. Hor. Position Adjustment (R450)
10. Height Adjustment(R352)
11. Vert. Linear Adjustment(R322)

12. Vert. Oscillator Adjustment(R350)
13. Red Driver Adjustment(R571)
14. Green Driver Adjustment(R572)
15. Blue Driver Adjustment(R573)
16. Fuse 4A/AC 125V(F801)
17. Fuse 1.2A/AC 125V(F802)
18. 123V B+Voltage Adjustment(R851)
19. Vert. position Adjustment(R353)
20. Width Adjustment (L445)
21. Hor. Scanning Connector(K6)
22. Vert. Scanning Connector(K4)

CIRCUIT ADJUSTMENT

1. 123V Power Supply Adjustment (Adjust R851)
Adjust R851 for B⁺ voltage to $123.0 \pm 1V$ as AC Line input 120V 60Hz.
2. Horizontal Oscillator Adjustment: (Adjust R451)
If there is an indication of unstable horizontal SYNC, adjust the Horizontal Hold Control (R451) to produce a stable picture.
3. Width Adjustment: (Adjust L445)
If the picture of the screen is not adequately wide, adjust L445 to the width as required width.
4. Horizontal Raster Position Adjustment (Adjust R450)
If the picture is off center horizontally some compensation can be made by adjust R450 as required.
5. Vertical Oscillator Adjustment (Adjust R350)
If the picture moves up or down on the screen, adjust the Vertical Hold Control (R350) until there is a single picture on the screen.
6. Height Adjustment (Adjust R352)
Adjust Height Control (R352) to change the Height of the picture or pattern
7. Vertical Linear Adjustment (Adjust R322)
Adjust Vertical Linear Control (R322) for best Vertical linearity of the picture or pattern.
8. Vertical Raster Position Adjustment (Adjust R353)
If the picture or pattern is off center vertically some compensation can be made by adjustment R353 as required.
9. Pincushion Correction Adjustment (Adjust R354)
If the picture on the crosshatch pattern is Pincushion distortion, adjust Pincushion correction control (R354) to get straight scanning lines at the top and bottom of the picture.
10. White Balance Adjustment (Adjust R631, R632, R633)
If raster is not appeared white level as no pattern, adjust R631, R632, R633 to best white level.
11. Focus Adjustment (Adjust Focus VR on Focus Pack Z411)
Adjust Focus control VR on Focus pack Z411 for well defined scanning lines in the central area of the screen.
12. Brightness Adjustment (Adjust R634)
Adjustment of R634 maybe necessary to obtain the proper black level. Do not use the screen control to set the black level.
13. Screen Adjustment (Adjust Screen VR on Focus Pack Z412).
This control has been set at the factory and should not need further attention. If however it is necessary when the game is applied, adjust Screen VR on Focus Pack Z412.
14. Input Level Adjustment (Adjust R571, R572, R573)
Adjust signal level R571 (R), R572 (G), R573 (B) for optimum color intensity desired.
15. Horizontal Scanning.
If you need to invert Horizontal Scanning, take out connector K6, and plug back inversely.
16. Vertical Scanning
If you need to invert Vertical Scanning, take out connector K4, and plug back inversely.



SCHEMATIC DIAGRAM

