



# Service Manual

## MODEL IT-145MZ



MONITOR

## MODEL IT-35CZ



CAMERA

### SPECIFICATIONS

#### Monitor (IT-145MZ)

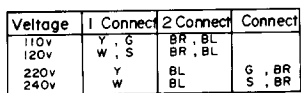
CRT	14", 90° deflection (340AXB4) explosion-proof type
Input impedance	75 ohms or high impedance
Input signal level	VS 1.4Vp-p VS 0.5Vp-p at minimum for effective operation VS 1.8Vp-p at maximum for effective operation
Horizontal scanning frequency	15,625 Hz
Vertical scanning frequency	50 Hz
Video amplifier gain	40 dB at minimum
Video amplifier band	7 MHz at minimum
Horizontal resolution	More than 700 lines (at the screen center)
Scanning system	2 : 1 interlace
Power source	AC 110/120/220/240V, 50/60 Hz
Ambient temperature	-10°C to 40°C
Power consumption	35W
Dimensions	(Approx.) 344(W) x 360(H) x 341(D) mm
Weight	(Approx.) 11 kg
Semiconductors	13 transistors 13 diodes 1 IC
Accessory	M type feeder wire

#### Camera (IT-35CZ)

Lens	Standard 16 mm "C" mount lens
Pick-up tube	2/3" vidicon (Type.20PE19 or 20PE20) Heater (6.3V, 95mA) Electrostatic focus
Power source	200/220/240V, 50 Hz (Already set on proper voltage at our factory in accordance with your Standard)—Standard: 240V 7W ± 20%
Power consumption	7W ± 20%
Horizontal scanning frequency	15,625 Hz
Vertical scanning frequency	50 Hz
Operating ambient temperature	-20°C to +45°C
Horizontal resolution	550 lines (Center)
Recommendatory image pick-up illumination	More than 200 lx (F1.6)
Automatic light compensator	Less than 3 dB in video output at 50 to 50,000 lx
Minimum illumination	20 lx
Focusing range	0.5 m to ∞
Dimensions	(Approx.) 138(W) x 75(H) x 250(D) mm
Weight	(Approx.) 1.9 kg (Camera only)
Cabinet	Metal cabinet
Semiconductors	26 transistors 14 diodes 2 ICs
Controls	Front; Optical focus control Rear; Electrostatic focus, beam

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**MAURITRON SERVICES**  
8 Cherry Tree Road, Chinnor  
Oxfordshire, OX9 4QY.  
Tel (01844) 351694  
Fax (01844) 352554

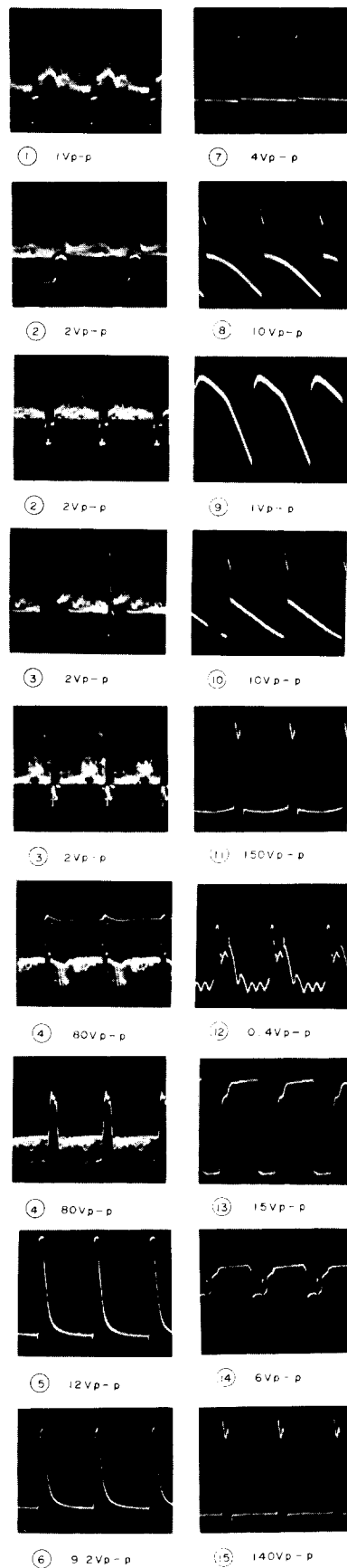
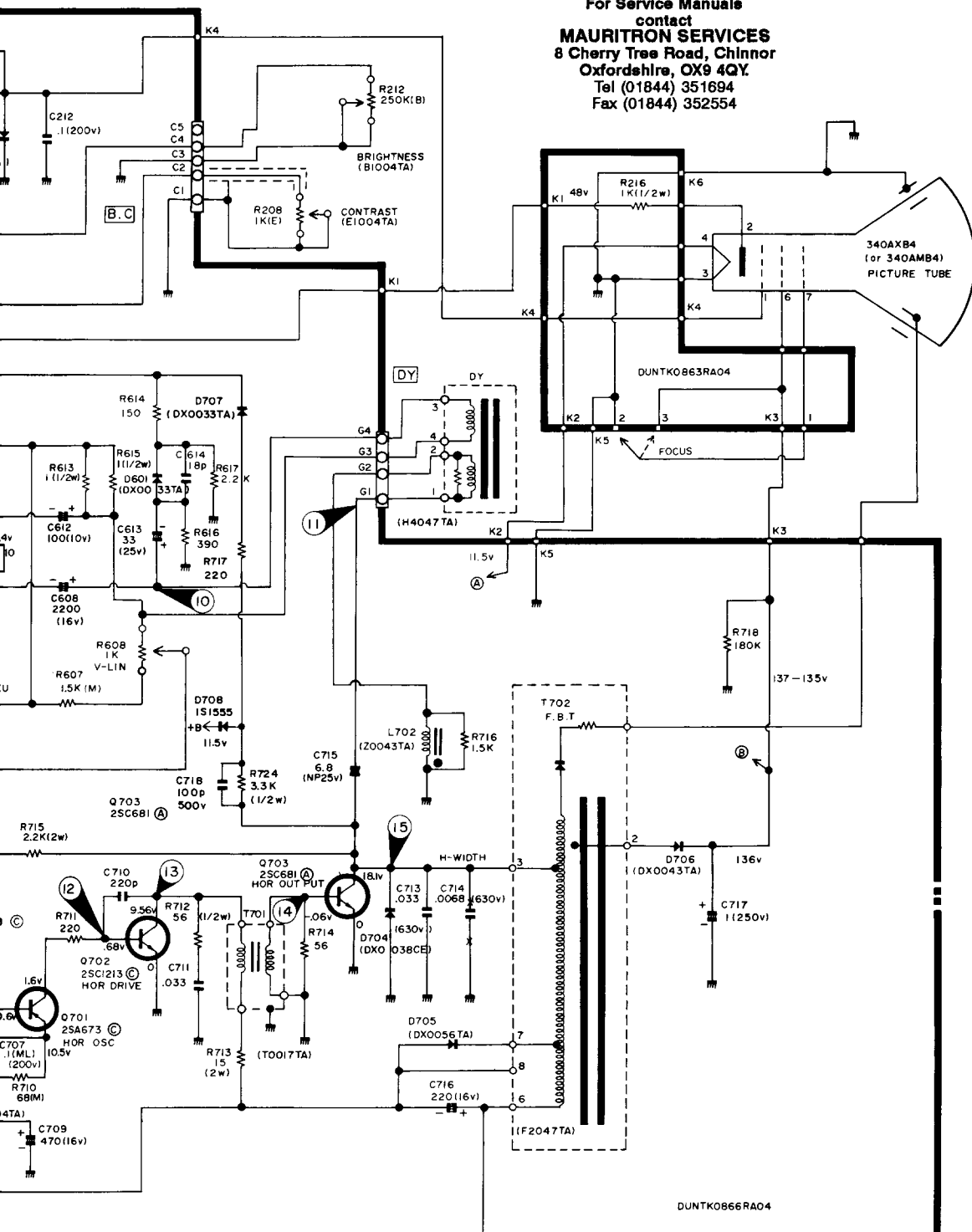
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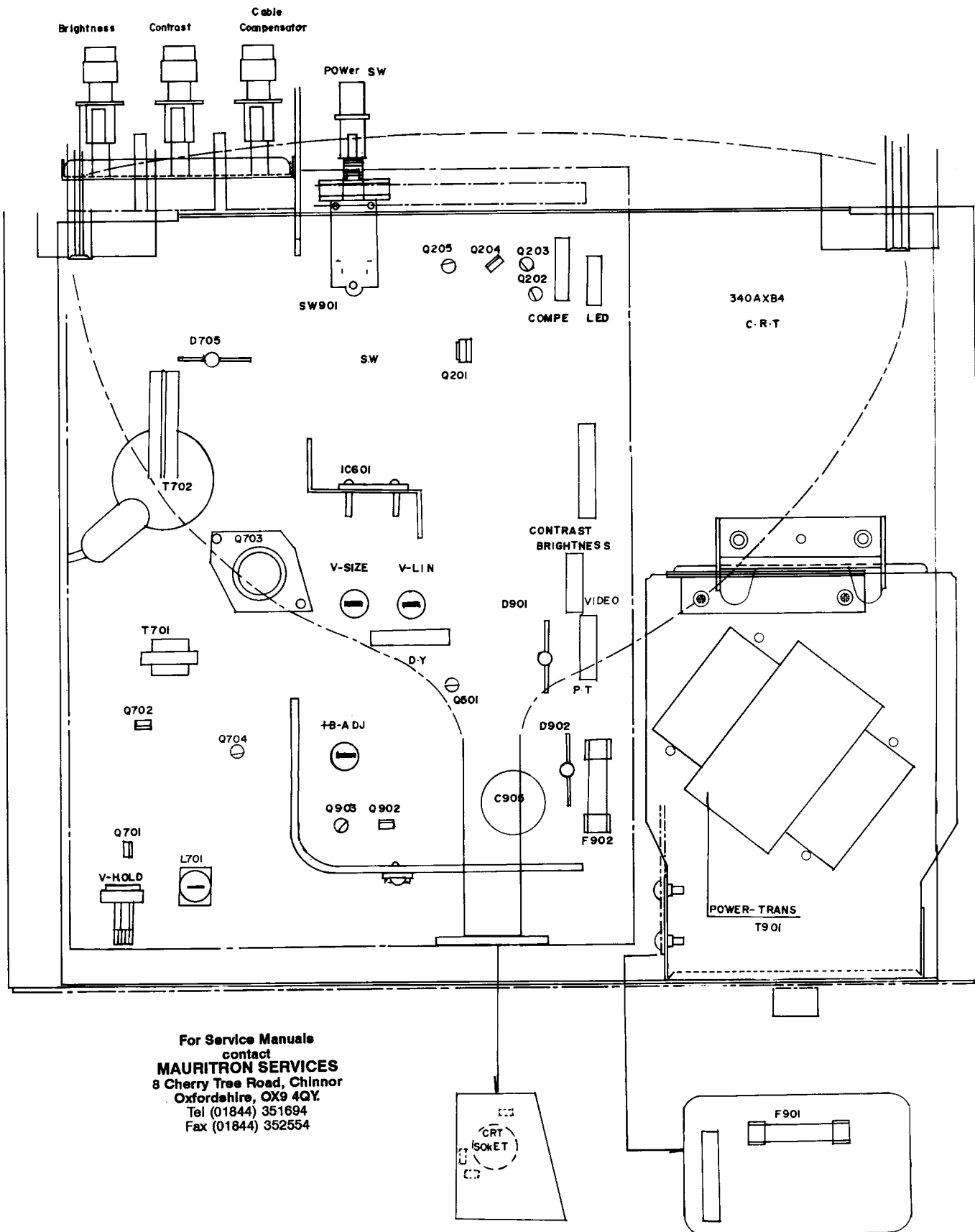
W	White
Y	Yellow
BR	Brown
S	Seville orange
G	Green
BL	Black
O	Orange
R	Red

# DIAGRAM (MONITOR) IT-145MZ

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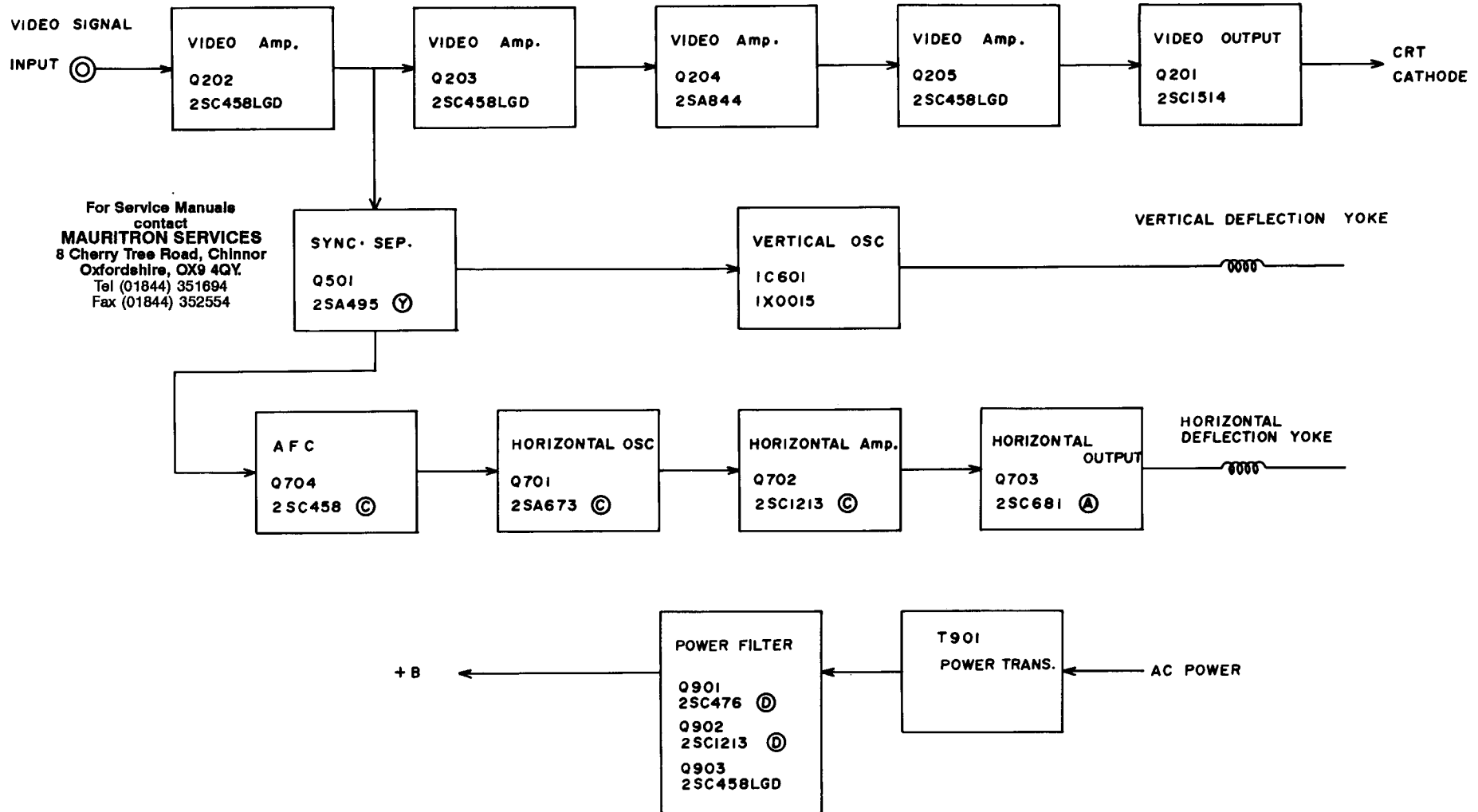


# CHASSIS LAYOUT

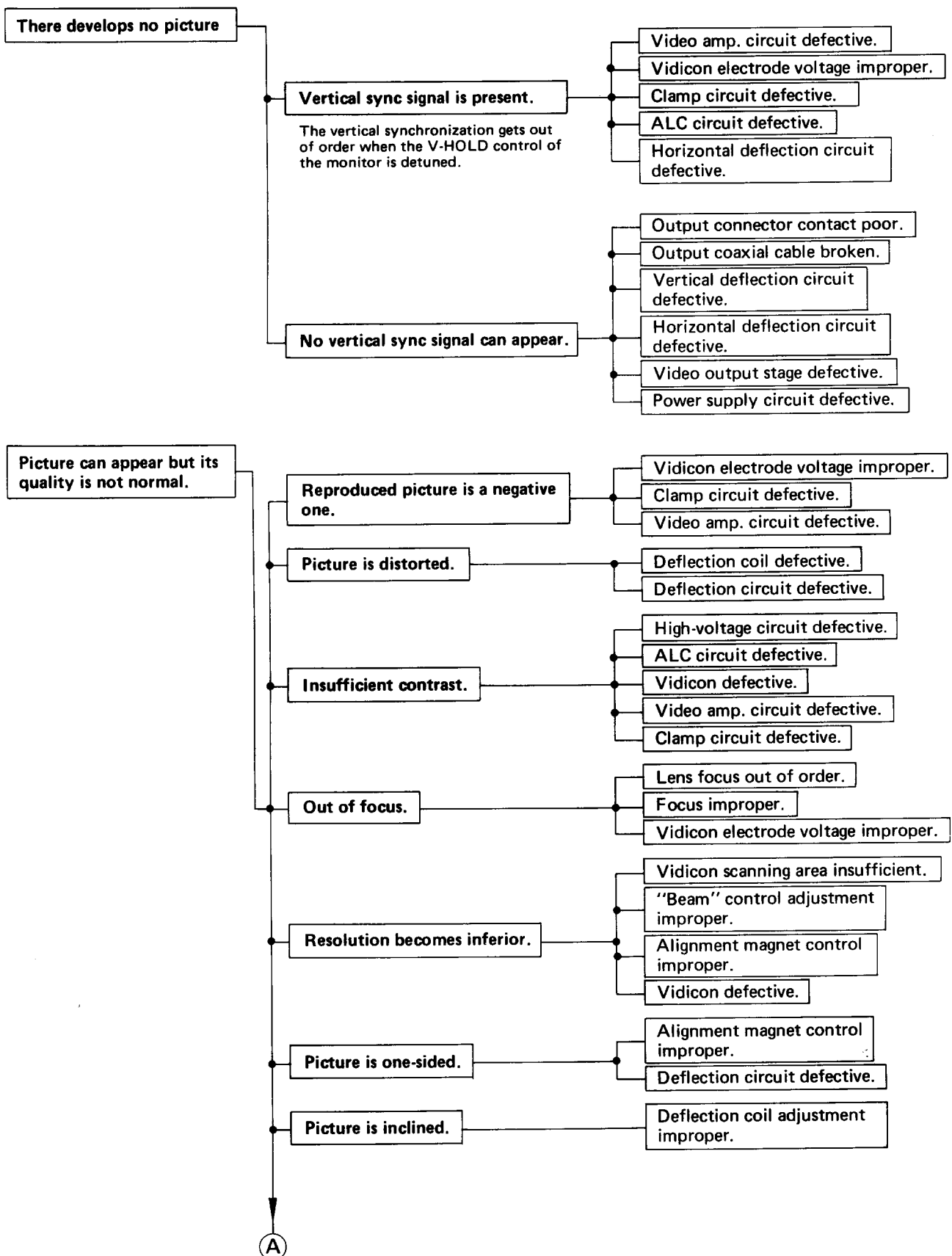


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# BLOCK DIAGRAM (MONITOR)



# TROUBLESHOOTING TABLE



A

