

## General Information

1992

Chassis: MY

CRT: A51EAL55X01-J2

Remote Control:

RMGC695 -AKD-H

Main Power Button:

CM35222-001-E

## Matrix

Item	See Model
Safety Notice	JVC AV-21H1 EK

## Specifications

TV RF System:	CCIR (1)
Colour System:	PAL
Teletext System:	FLOF (U.K. system)
No. of Channels:	51 (0 (AV), 1 to 50)
Receiving Channel	
& Frequency UHF Band:	(E21ch - E69 ch)
470 MHz - 862 MHz	
Intermediate Frequency	
V IF Carrier:	39.5 MHz
S IF Carrier:	33.5 MHz (6.0 MHz)
Colour Sub Carrier:	4.43 MHz
Aerial Input Impedance:	75W unbalanced
Power Input:	220 - 240V AC 50Hz
Power Consumption:	90W (max.) / 75W (avg.)
Picture Tube:	21" (Tube size: 55cm, Visible size: 51" cm) Diagonally measured; FST (Flat Square Tube)
Viewable Picture size:	41.3cm (H) x 31.2cm (W)
High Voltage:	26.5kV $\pm$ 1.3kV (at zero beam current)
Speaker:	5 x 9 cm Oval type, 4W
Audio Output	
Music Power:	5W (music power)
Audio Power:	3W (effective)
21 pin PERI socket (Euro Connector)	
Video Input:	1Vp-p, 75W
Audio Input:	500mV rms (-4dBs) high impedance
Video Output:	1Vp-p, 75W
Audio Output:	500mV rms, low impedance
R/G/B Input:	700Vp-p, 75W
Tube:	1
IC:	24 (in TV), 1 (in Remocon)
Transistor:	87 (in TV), 1 (in Remocon)
Remote Control Unit:	RM-C695

## Recommended Safety Parts

Item	Part No.	Description
R1571	QRZ0095-R56	UNF R 0.56 $\Omega$ 2W J
R1991	QRZ0057-825	C R 8.2M $\Omega$ 1W J
C1521	QFZ0117-2001S	MPP CAP. 2000 pF 2kV $\pm$ 2.5%
C1522	QFZ0117-7001S	MPP CAP. 7000pF 2kV $\pm$ 2.5%
C1524	QFZ0120-404S	MPP CAP. 0.4 $\mu$ F 200V $\pm$ 3%
C1901	QFZ9022-473M	ME CAP. 0.047 $\mu$ FAC 250V M
C1903, C1905,		
C1906	QCZ9034-472A	C CAP. 4700p FAC 400V P
C1991	QCZ9036-332M	C CAP. 3300p FAC 400V M
C1992, C1993,		
C1995, C1996	QCZ9036-102M	C CAP. 1000p FAC 400V K
T1901	CE42103-002J1	SW Transf

## Service Adjustments

## B1 Voltage

## Measuring Instrument:

Pattern Generator, DC Voltmeter or Digital Voltmeter

## Test Point:

TP-9, TP-E (REG)

## Adjustment Part:

B1 ADJ. (R916)

## Description:

- 1: Receive a black level signal.
- 2: Move the service switch to S position and adjust the screen VR to cut off the picture.
- 3: Adjust the B1 ADJ. VR (R916) so that the voltage between TP-91 and TP-E (1) becomes DC 119.0  $\pm$  0.5V.
- 4: Adjust the screen VR to obtain the original brightness of the horizontal line, then return the service switch to N.
- 5: Confirm that the B1 voltage is stable over a wide range of inputs.

## Checking for the High Voltage

## Measuring Instrument:

Pattern Generator, High Voltage Meter.

## Test Point:

CRT anode

## Description:

- 1: Connect the earth probe of high voltage meter to the chassis, then connect the high voltage meter to the anode of CRT.
- 2: Receive a black field pattern signal.
- 3: Change the service switch to S and while adjusting the screen VR, cut off the picture.
- 4: Confirm that the high voltage falls within 26.5  $\pm$  1.3kV.
- 5: disconnect the probe of high voltage meter from the anode of CRT, then disconnect the earth probe from the chassis.
- 6: Adjust the screen VR to obtain the original brightness of the horizontal line, then return the service switch to N.

## Noise

## Adjustment Part:

Noise VR (R103)

## Description:

- 1: Turn the noise VR (R103) until the picture is noisy.
- 2: Turn R103 in the opposite direction until the noise just disappears.
- 3: Check on all channels, and if necessary make a compromise adjustment.

## Sub Bright, Sub Contrast

## Adjustment Part:

Sub Bright (R216), Sub Contrast (R208)

## Description:

- 1: Set the standard setting by pressing VSN STD of the remote control.
- 2: Obtain optimum pictures by adjusting Sub Bright VR (R216) and Sub Contrast VR (R208).

\* Avoid excessive brightness.

## Sub Colour

## Measuring Instrument:

Pattern Generator

## Adjustment Part:

Sub Colour (R314)

## Description:

- 1: Set the standard setting by pressing VSM STD of the remote control.
- 2: Receive a PAL colour bar signal.
- 3: Adjust the Sub colour VR (R314) until natural colour density is obtained.

## Sub Tint (NTSC)

## Measuring Instrument:

VCR (NTSC: 4.43MHz)

## Adjustment Part:

Sub Tint (R342)

## Description:

- 1: Set the standard setting by pressing VSM STD of the remote control.
- 2: Input a NTSC (4.43 MHz) signal from VCR to the 21 pin connector.
- 3: Adjust the Sub Tint VR (R342) until natural tint is obtained.

## V. Height, V. Linearity

## Measuring Instrument:

Pattern Generator

## Adjustment Part:

V. Height (R416), V. Linearity (R405)

## Description:

- 1: supply a crosshatch pattern.
- 2: Reduce the vertical size with the V. Height VR (R416).
- 3: Adjust the vertical symmetry with the V. Linearity VR (R405).
- 4: Re-adjust the V. Height VR (R416) to return the picture to normal size.

\* Confirm good linearity with crosshatch and circle test patterns.

## H. Centre

## Measuring Instrument:

Pattern Generator

## Adjustment Part:

H. Centre (R504)

## Description:

- 1: Centring is completed at the factory, although it may become distorted when picture tube is changed. In such case, adjusting the H. Centre VR (R504).

\* Confirm good linearity with crosshatch and circle test patterns.

## Y Trap

## Measuring Instrument:

Pattern Generator

## Adjustment Part:

C104

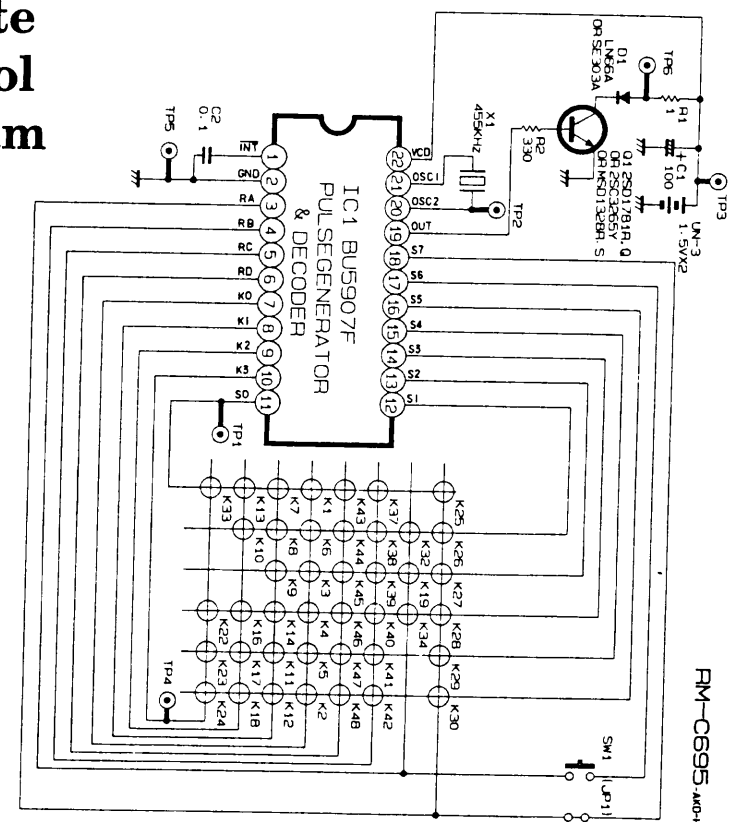
## Description:

- 1: Receive a PAL colour bar signal.

## Recommended Safety Parts

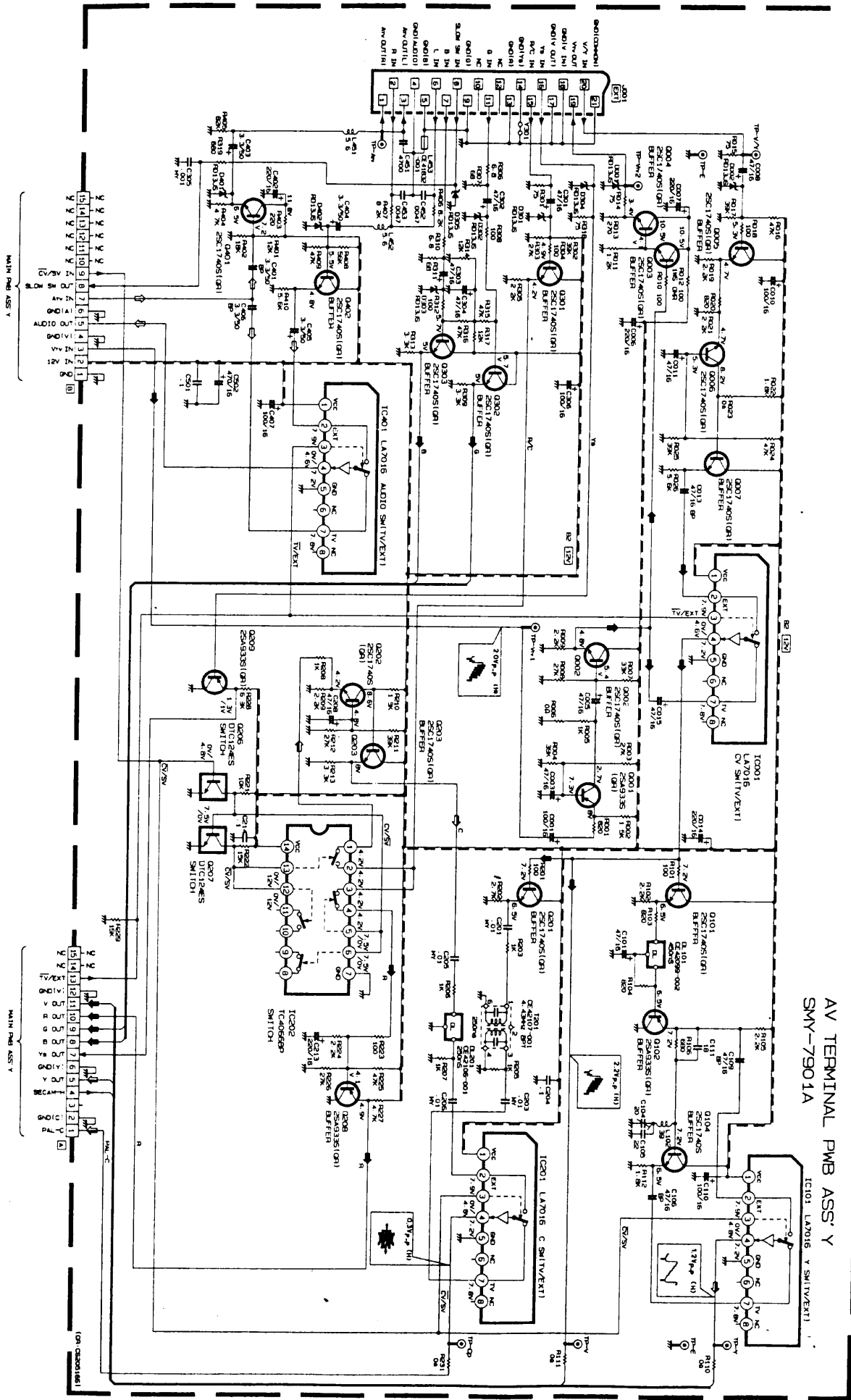
Item	Part No.	Description
D1521	RH4F-C1	SI. Diode
D1901	LB-156-C1	Bridge Diode
D1906	EU2A-T3	SI. Diode
Q1521	2SD1555-C1	Power Transistor
FR1005,		
FR1011	QRZ0054-150M	F R 15 $\Omega$ 1/4W J
FR1105	QRZ0054-5R6M	F R 5.6 $\Omega$ 1/4W J
FR1551	QRH017J-220M	F R 22 $\Omega$ 1W J
FR1552	QRH127J-1R2M	F R 1.2 $\Omega$ 1/2W J
FR1553	QRH017J-2R2M	F R 2.2 $\Omega$ 1W J
FR1554	QRH017J-150M	F R 15 $\Omega$ 1W J
FR1561	QRZ0054-4R7M	F R 4.7 $\Omega$ 1/4W J
FR1610	QRH017J-120M	F R 12 $\Omega$ 1W J
FR1915,		
FR1931	QRZ0054-330M	F R 33 $\Omega$ 1/4W J
FR1932	QRZ0054-100M	F R 10 $\Omega$ 1.4W J
LF1901	CE42144-001J1	Line Filter
TH1901	CEKP002-001	W Posistor
	CE41603-001J1	CRT Socket
F9901	QMF51E2-3R15J1	Fuse 3.15A
LF9901	A39475-G-T	Line Filter
LF9902	CE41890-001	Line Filter
C8901	QFZ9022-104M	MF CAP. 0.1 $\mu$ FAC 250V M
S8901	QSP2J21-C02	Push Switch Main Power
VA8901,	ERZ-C10DK621	Varistor
1	A51EAL55X01-J2	Picture Tube (ITC)
2	CELD018-003J2	Degaussing Coil
4	CJ27711-00AKJ1	H V Module T1551
5	QMP4C00-2009J	Power Cord

## Remote Control Diagram

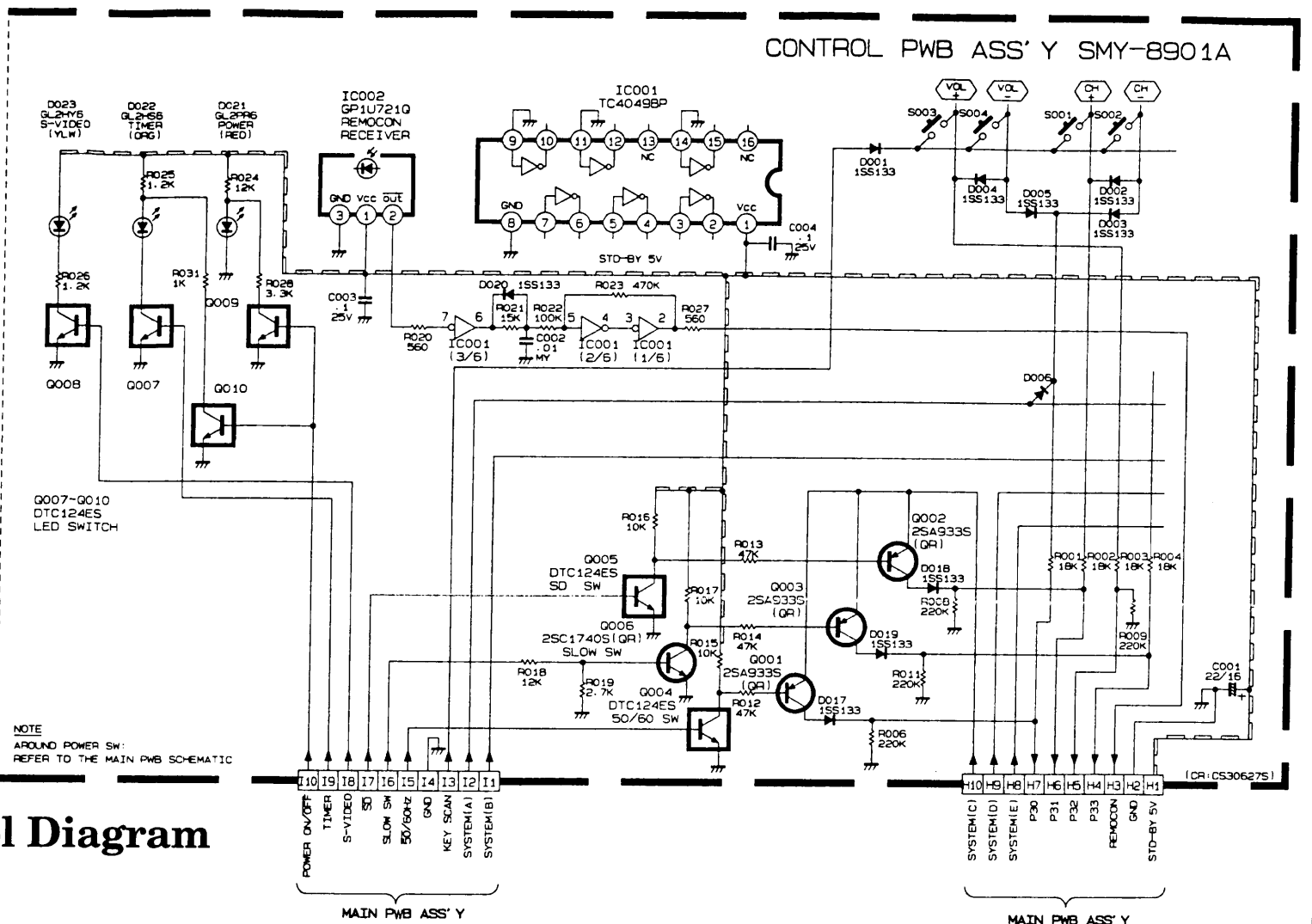


KEY NO.	FUNCTION	KEY NO.	FUNCTION	KEY NO.	FUNCTION
1	DISPLAY CANCEL	22	COLOURS SYSTEM	43	VSM
2	TIME PAGE	23	MENU	44	MUTE
3	MOOD	24	1	45	CHANNEL PAGE V
4	TV/TXT/MIX	25	2	46	CHANNEL PAGE A
5	RESET	26	3	47	VOLUME-
6	SIZE	27	DISPLAY	48	VOLUME+
7	HOLD	28	4	49	CHANNEL (VTR) V
8	RECALL	29	5	50	CHANNEL (VTR) A
9	R (RED)	30	6	51	EJECT
10	G (GREEN)	31	7	52	POWER (VTR)
11	Y (YELLOW)	32	8	53	REW
12	B (CYAN)	33	9	54	PLAY
13	TV	34	0	55	FF
14	EXT	35	1	56	REC
15	S-IN	36	2	57	VARIABLE SEARCH <
16	POWER (TV)	37	3	58	PAUSE
17	SLEEP TIMER	38	4	59	VARIABLE SEARCH >
18	VSM STD	39	5	60	STOP
		40	FUNCTION A		
		41	FUNCTION B		
		42	FUNCTION C		

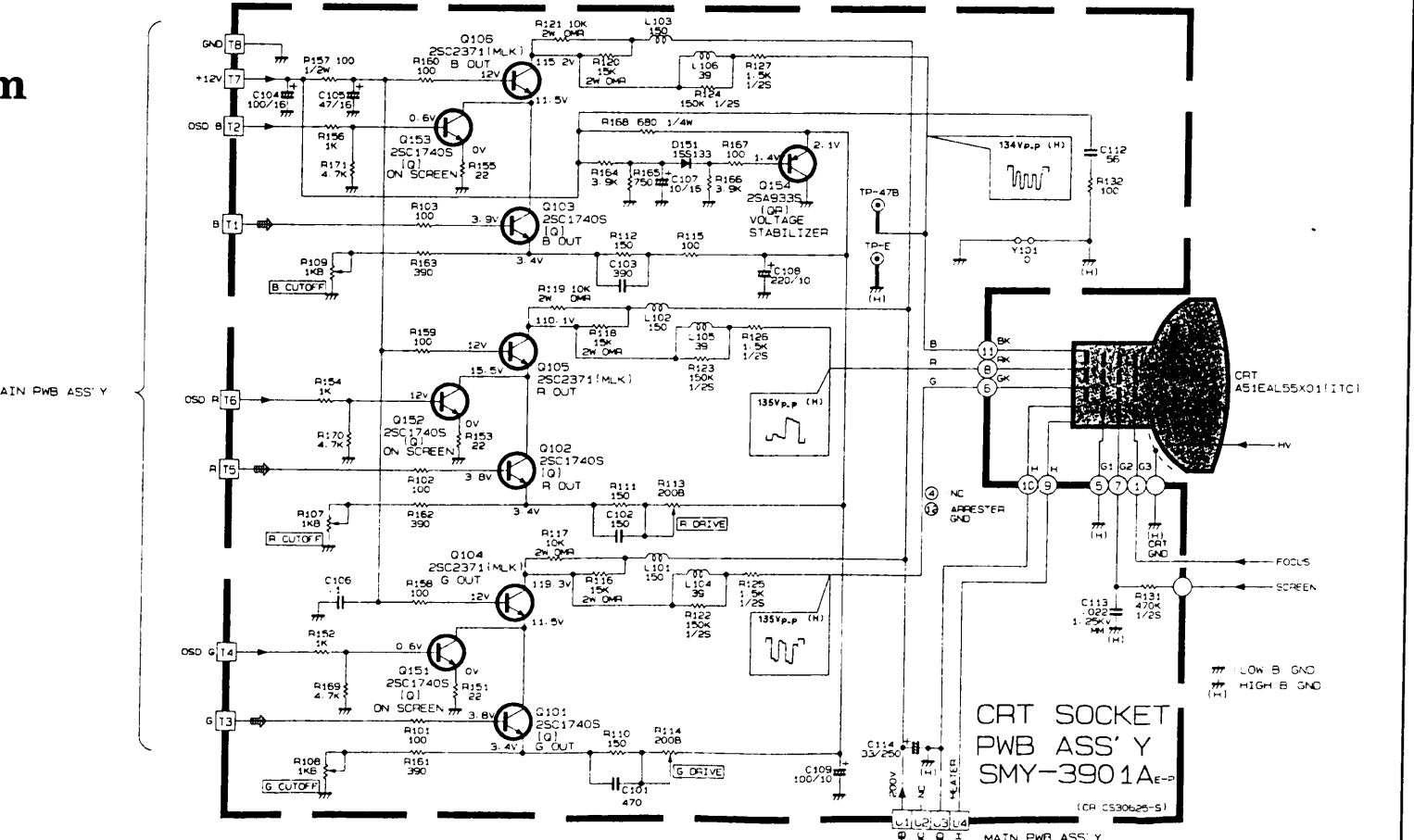
AV Terminal Diagram



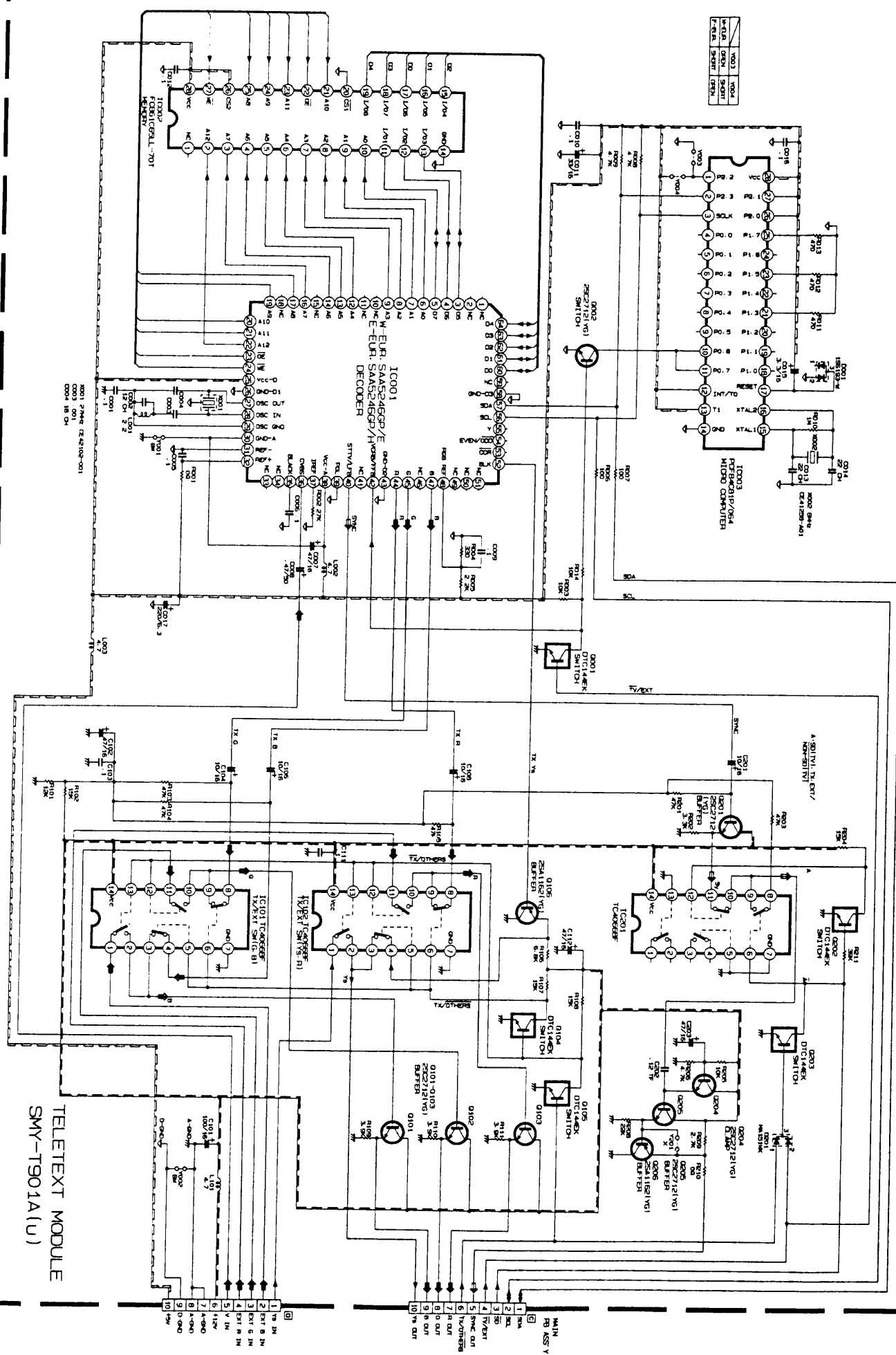
Control Diagram



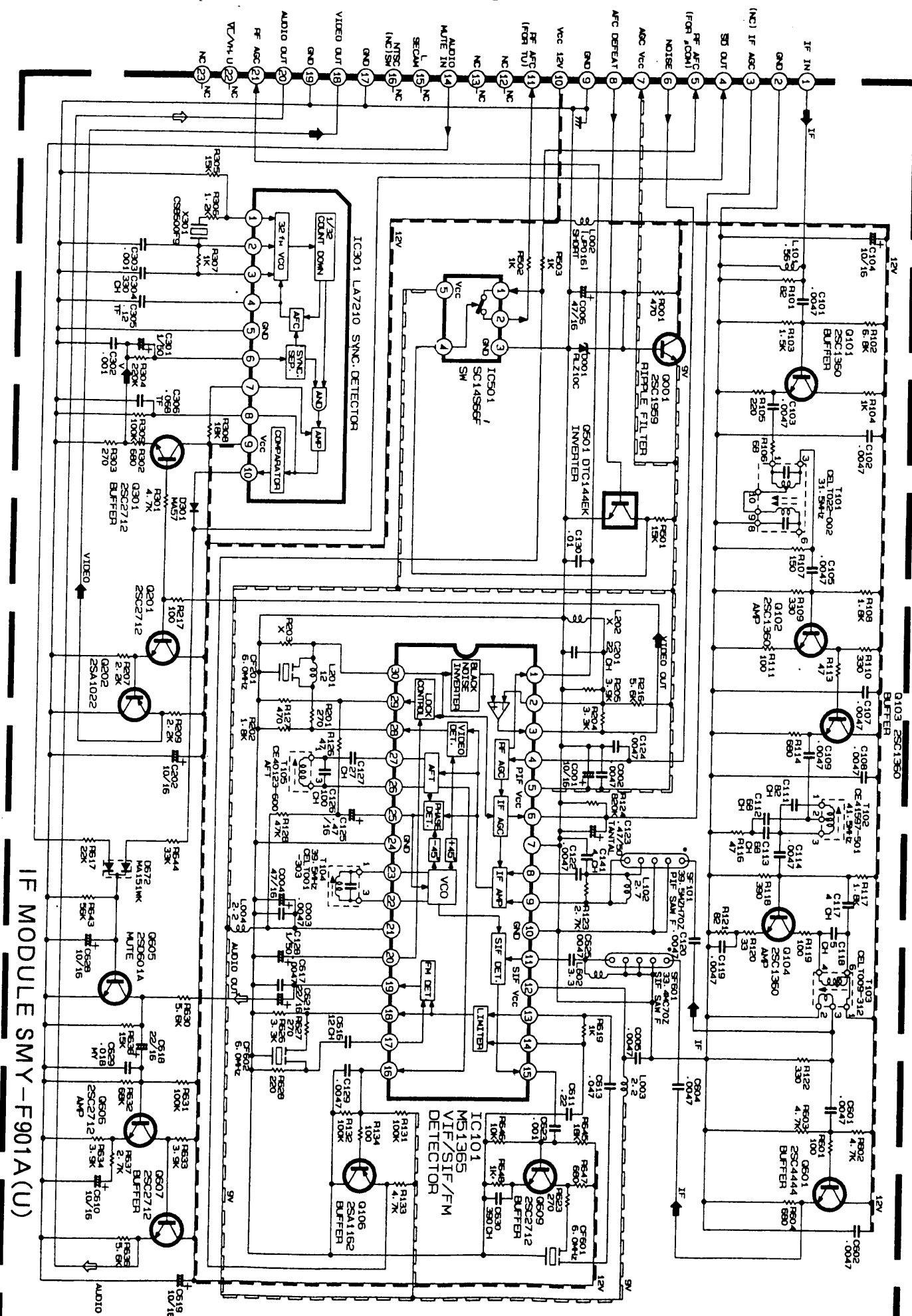
CRT Diagram



## Text Diagram



### IF Diagram



## Main Diagram

