

## General Information

**Chassis:** EC3-A-21  
**CRT's:** A51EEr11X38  
**A51EBV12X09**  
**Remote Control:**  
**6450089572**  
**Battery Lid:** 6102516890  
**Main Power Button:**  
**6102595994**

## Matrix

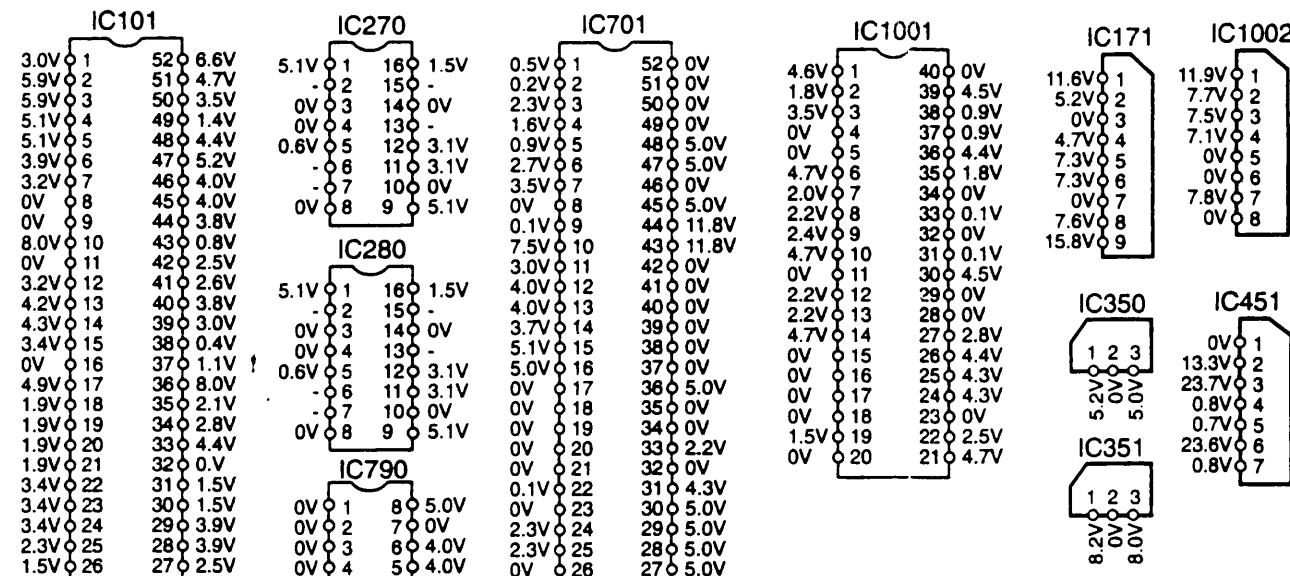
Item	See Model
Safety Notice	Sanyo CB 1443
Service Adjustments	Sanyo CB 5156
Memory IC Replacement	Sanyo CB 1443
Safety Parts	Sanyo CB 5156

## Specifications

Give complete "Service Ref. No." for parts order or servicing, it is shown on the rating sheet on the cabinet back of the TV set.

Power Source: AC 220 - 240V 50 Hz  
 Television System: System 1  
 Colour System: PAL  
 Receiving Channel: UHF 21 - 69  
 Aerial Input Impedance: 75 ohm  
 AV Terminal 21 pin socket: CENELEC standard  
 Sound Output: 3.0 watts  
 Picture Tube: 55cm diagonal, 90 degree  
 (Visible picture diagonal) 51cm

## ICs - Main Diagram



## Waveforms

IF/Video/Chroma/Def.(IC101)				Video-Output	
Video-out IC101-7		R-out IC101-20		H-out IC101-37	
Video-in IC101-13		G-out IC101-19		H-F/B IC101-38	
B-Y-in IC101-28		B-out IC101-18		V-out IC101-43	
R-Y-in IC101-29		SIF-in IC101-5		V-out IC101-43	

Vert.-Output		Horiz.-Output		Power-Output	
V-in IC451-4		V-out IC451-7		H-drive Q431-C	
V-out IC451-2		H-out Q432-C		P-drive Q312-C	

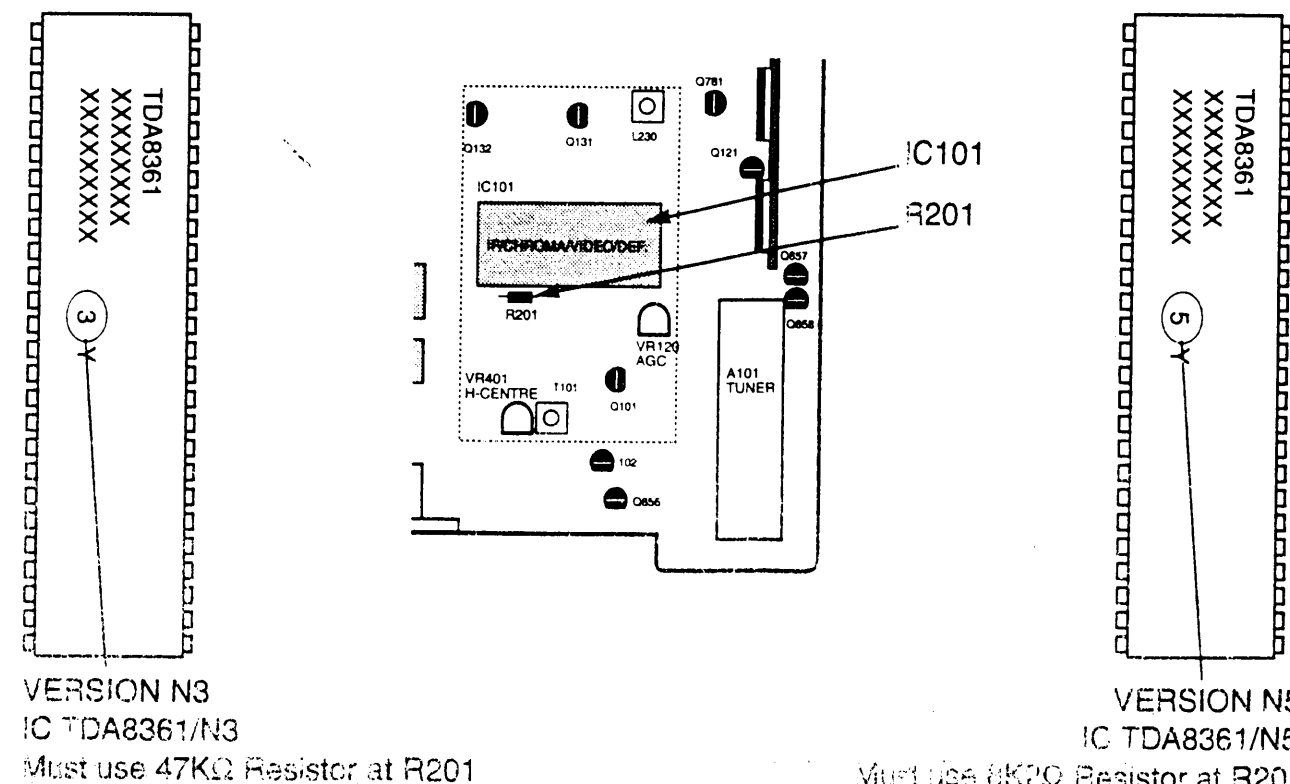
## Service Adjustments

### IC101 Replacement (Important Notice)

IC101 is located under the shield case. When replacing proceed as follows:

- 1) Remove the Shield cases.
- 2) Check the IC version number of the IC you are replacing.
- 3) Check the value of the resistor at R201. The value must be matched depending on the version of IC being inserted, see table below.
- 4) Replace R201 if necessary.
- 5) Replace IC101.
- 6) Refit Shield cases.

See Matrix for other Service Adjustments



## Voltage Charts

	Q101	Q131	Q132	Q133	Q134	Q152	Q202	Q311	Q312
B	1.2V	3.2V	3.6V	9.0V	3.7V	3.8V	3.7V	4.9V	-0.7V
C	5.9V	0V	9.0V	3.5V	0V	8.0V	0V	-0.7V	-0.6V
E	0.5V	3.9V	3.0V	9.4V	4.7V	3.2V	0V	15.2V	0V
	Q313	Q351	Q352	Q353	Q354	Q371	Q372	Q381	Q431
B	-0.6V	23.1V	0.7V	6.8V	14.9V	0.6V	36.7V	12.6V	0.5V
C	-	23.7V	0V	36.8V	15.5V	36.6V	0V	11.9V	14.0V
E	0V	23.8V	0V	6.2V	15.7V	1.0V	36.7V	11.9V	0V
	Q432	Q436	Q437	Q703	Q708	Q711	Q722	Q851	Q852
B	0.1V	0V	0.6V	2.4V	4.4V	0.6V	0V	0V	0V
C	-	6.4V	0V	1.9V	5.0V	5.3V	0V	0V	0V
E	0V	0V	0V	4.7V	5.0V	0V	0V	0V	0.6V
	Q857	Q858	Q881						
B	3.0V	4.3V	4.4V						
C	4.2V	0V	11.8V						
E	2.3V	5.0V	3.7V						
	Q1001	Q1002	Q1003	Q1005	Q1006	Q1007	Q1008		
B	0V	0V	0V	4.4V	2.3V	0V	3.6V		
C	4.7V	4.7V	1.3V	11.8V	3.5V	3.5V	3.5V		
E	0V	0V	0V	3.7V	2.2V	0V	3.7V		

## Main Diagram

