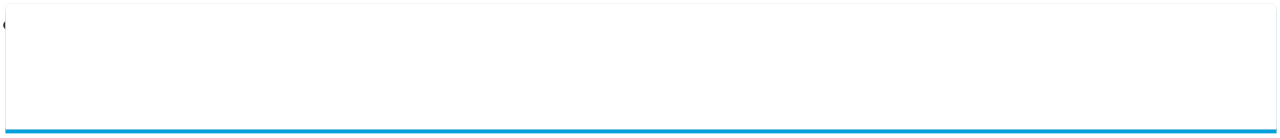
Sanyo CP14G1 Service Manual

Colour tv

1
Table Of Contents
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

18
19
20
21
22
23
24
25
26



-

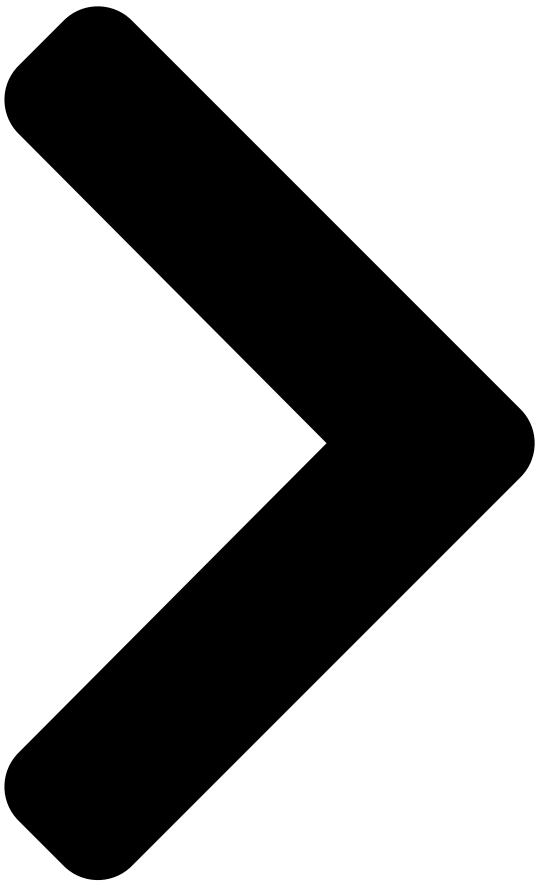
Table of Contents

Bookmarks

Quick Links

1 Service Information

Download this manual

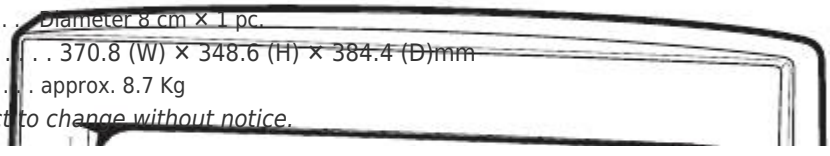


SERVICE MANUAL Colour Television

VIDEO
AUDIO

Specifications

Power Source . . . . . AC220-240V, 50Hz/60Hz.
Colour System . . . . . PAL (AV input: PAL/NTSC4.43/NTSC/PAL-60Hz)
Television System . . . . . B/G
Channel Coverage . . . . .Australia
New Zealand
Video IF 38.0MHz
Aerial Input Impedance . . 75Ω
Ext. Terminals
Video inputs: Phono jack × 2 (1Vp - p, 75Ω)
Audio inputs: Phono jack × 2 (436mVrms, more than 40KΩ)
Sound Output (RMS) . . . . 2 W
Speaker . . . . . Diameter 8 cm × 1 pc.
Dimensions . . . . . 370.8 (W) × 348.6 (H) × 384.4 (D)mm
Weight . . . . . approx. 8.7 Kg
Specifications subject to change without notice.



C4EV

TV/A V MEN U

VHF: 0-11, 5A

UHF: 28-69

CATV: S1-S41, X, Y, Z, Z+1, Z+2

VHF: 1-11

UHF: 21-69

CATV: S1-S41, X, Y, Z, Z+1, Z+2

FILE NO.

Model No. CP14G1

Service Ref. No. CP14G1-50

TIMER

TV/AV

1

2

3

4

5

6

7

8

9

0

-/--

BASS

A B

SURROUND

PL

P

P

CH SCAN

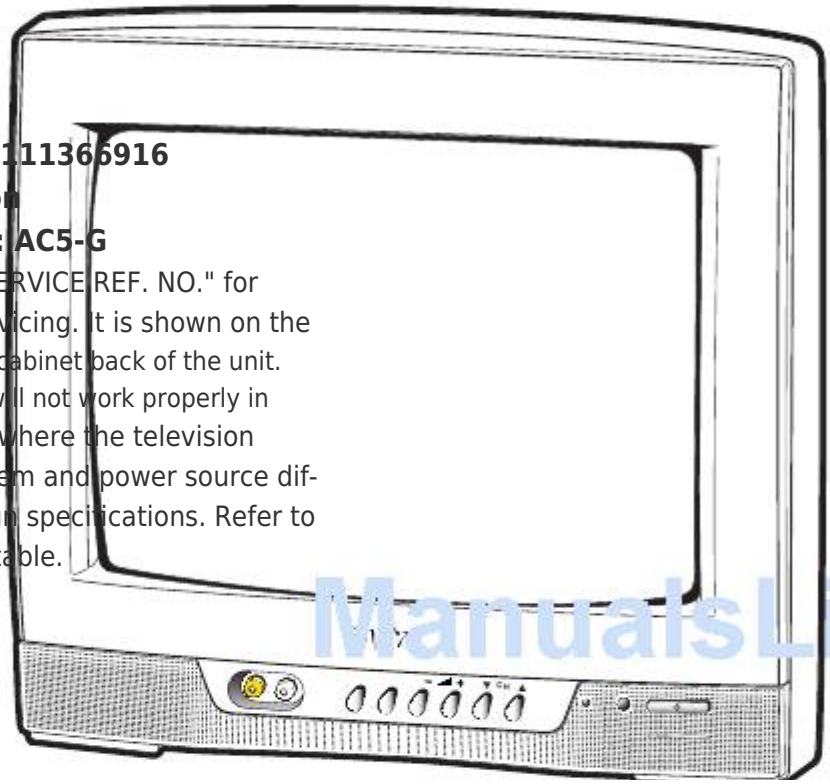
PM

SWAP

MENU

PIC MODE

SMTV



Product Code: 1111366916

Original Version

Chassis Series: AC5-G

Give complete "SERVICE REF. NO." for parts order or servicing. It is shown on the rating plate at the cabinet back of the unit.

This T.V. receiver will not work properly in foreign countries where the television transmission system and power source differ from the design specifications. Refer to the specification table.

REFERENCE NO.

(A)

(Australia)

SM

5110540

ManualsLib.com

Table of Contents

Next Page

1
2
3
4
5

Related Manuals for Sanyo CP14G1

Colour television Sanyo CP14G1 Service Manual

(26 pages)

TV Sanyo CP14SA1G Instruction Manual

(20 pages)

TV Sanyo 21VF1K Instruction Manual

Sanyo colour television instruction manual (20 pages)

TV Sanyo CA14SE1(V) Instruction Manual

Multi system catv hyper band 256 programmes with automatic tuning (20 pages)

TV Sanyo CP14SE1 Service Manual

(37 pages)

TV Sanyo CP14SE1K Service Manual

(37 pages)

TV Sanyo CP14SE1K Service Manual

(33 pages)

TV Sanyo CP14SA1 Service Manual

Colour television (26 pages)

TV Sanyo CP14SA1 Service Manual

Color tv (27 pages)

TV Sanyo CP14SR1 Service Manual

(26 pages)

TV Sanyo CP14SR1(G) Service Manual

(24 pages)

TV Sanyo CP14SW1Z Service Manual

Colour television (27 pages)

TV Sanyo CP14SW1Z Service Manual

Chassis series: ac5-c (27 pages)

TV Sanyo CP14KX2A Service Manual

(30 pages)

TV Sanyo CP14KX2 Service Manual

(28 pages)

TV Sanyo CP14SE1 Instruction Manual

(13 pages)

Summary of Contents for Sanyo CP14G1

Page 1 FILE NO. SERVICE MANUAL Colour Television Model No. CP14G1 (Australia) Service Ref. No. CP14G1-50 TIMER TV/AV -/-- BASS SURROUND CH SCAN SWAP VIDEO AUDIO TV/A V MEN U MENU PIC MODE JXMYA Specifications Product Code: 111366916 Power Source ..AC220-240V, 50Hz/60Hz.

Page 2: Table Of Contents

Contents Safety Notice ..... . 2 Chassis Block Diagram .

Page 3: Chassis Block Diagram

Chassis Block Diagrams MAIN SIGNAL PROCESSING CIRCUIT ✻ Teletext decoder and SECAM decoder are not equipped. ✻ ✻...

Page 4 Chassis Block Diagrams SYSTEM CONTROL...

Page 5: Ic Block Diagrams

IC Block Diagrams IC201 < IF/Video/Chroma/Def. > LA76818A Audio Output SIF Input FM Output/Selected SIF APC Filter Audio Output SIF Output PIF AGC Ext. Audio Input RF AGC Output PIF Input1 APC Filter VCO Coil 1 PIF Input 2 VCO Coil 2 IF Ground VCO Filter IF Vcc...

Page 6 IC Block Diagrams IC201 <IF System Block Diagram> LA76818A...

Page 7: Service Information

IC Block Diagrams IC501 < Vertical Output > LA78040/LA78040N Thermal Protection Pump IC001 < Audio AMP.> LA4266 300Ω 30kΩ Filter OUT2 Power Service Information I Protection Circuit This TV set has a built-in power supply protection circuit. It is provided to protect the TV set in case of a power supply circuit malfunctions. When something abnormality occurs during TV reception, the TV set goes to the stand-by mode.

Page 8: Service Adjustments With Replacing Memory Ic(Ic802)

Service Adjustments with Replacing Memory IC(IC802) Note: The CPU (IC801) and memory IC (IC802) store the service adjustments data and controls data for each circuit.When the Memory IC(IC802) is replaced, some of the service adjustments should be readjusted to obtain the best performance. The necessary service adjustments are carried out by using the RC handset. Please set up the TV set with following steps [1] to [2].

Page 9 Service Adjustments with Replacing Memory IC(IC802) Following table shows the initial values which have been stored in the CPU ROM, and items for the service adjustments. Service mode adjustments table in CPU ROM DATA INITIAL DATA INITIAL ITEM RANGE SETUP DESCRIPTION ITEM RANGE...

Page 10 Service Adjustments with Replacing Memory IC(IC802) DATA INITIAL DATA INITIAL ITEM RANGE SETUP DESCRIPTION ITEM RANGE SETUP DESCRIPTION DATA DATA TUNER Tuner Option 0~255 ROM Correction AV123 AV1/AV2/AV3 Option, 0=AV only, 0~255 ROM Correction 1=AV1, AV2, 2~3=AV1, AV2,AV3 0~255 ROM Correction 88 OPT POS Programme number Option, 0~255...

Page 11: Service Adjustments With Replacing Memory Ic (Ic802)

Service Adjustments with Replacing Memory IC(IC802) [Entering to Service Mode] Press and hold the MENU button on the Remote Control and press the VOLUME (+) button on the TV set. Following setting items appears on the screen. MENU Display for [RF AGC] RF AGC adjustment MENU Read Status SI.

Page 12: Service Mode Adjustments

Service Mode Adjustments Following adjustments should be carried out when the memory IC is replaced. How to enter the service mode and adjust values, please refer to " Entering to Service mode" on page 11. Item 05 [V-SCO] V-S CORRECTION Item 01 [RF AGC] AGC NOTE: Do not attempt this adjustment with weak signal.

Page 13 Service Mode Adjustments Items 14-17, 19-21 GREY SCALE (1) Receive the monochrome circular pattern. (2) Set the brightness and colour to normal, contrast to maximum. (3) Enter to the service mode. (4) Set each value of Item-14 RBIAS, 15 GBIAS, 16 BBIAS, 17 RDRIV and 19 BDRIV mode to 64. (5) Select Item-20 mode to be one horizontal scanning line and turn the screen volume on the FBT to obtain just visible one coloured line.

Page 14: Service Adjustments

Service Adjustments Following adjustments are not required to readjust when replacing the memory IC. B-VOLTAGE SUPPLY CHECKING HIGH VOLTAGE CHECK (1) Connect DC meter to TP-B and the ground. Note: +B (+130V) Voltage Check and Grayscale Adjustment (2) Tune the receiver to an active channel and synchro- must be completed before attempting High Voltage

Check.

Page 15: Special Function

Special Function The following special functions can be set up on this TV How to set the special function: set. Note: When making the VOLUME LOCK setting, set the (1) Volume Lock setting desired maximum sound volume by pressing the VOLUME + or - button before entering Special Function setting mode.

Page 16: Purity And Convergence Adjustment

Purity and Convergence Adjustment CAUTION: The Convergence and Purity adjustments have been made at the factory. Readjustment should be made only after picture tube or deflection yoke replacement, following the steps below: PURITY ADJUSTMENT 8. Tighten the mounting screw of the Deflection Yoke. Adjust 1.

Page 17: Cabinet Parts List

BUTTON POWER-C4EA 610 304 8468 DEC.IND-C4EA 610 304 8413 BUTTON UNITED-C4EA 610 306 9142 CABINET FRONT-C4EY 645 043 9926 BADGE,SANYO 610 306 8831 CABINET BACK-C4EY 610 311 4989 LABEL RATING-C4EV 645 054 3579 ASSY,REMOCON JXMYA 610 300 5102 RC-BATTERY LID...

Page 18 SANYO Electric Co., Ltd. A14800/Oct./’03/30 BB Printed in Japan...

Page 19: Chassis Electrical Parts List

C4EV Chassis Electrical Parts List Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a mark in this parts list and the circuit diagram show components whose value have special significance to product safety.

Page 20 C4EV Ref. No. Part No. Description Ref. No. Part No. Description 405 012 2309 TR 2SC1815-Y CAPACITOR 405 020 7501 TR 2SC945A-PA C003 404 089 7200 ELECT 100U M 405 020 7709 TR 2SC945A-QA 403 044 9501 ELECT 100U M 405 020 7907 TR 2SC945A-RA C004...

Page 21 C4EV Ref. No. Part No. Description Ref. No. Part No. Description 403 049 0008 ELECT 1U M C631 403 247 5003 CERAMIC 470P K C230 403 215 2201 CERAMIC 0.01U K 403 269 1809 CERAMIC 470P K C231 403 260 2904 MT-COMPO 0.33U J C633...

Page 22 C4EV Ref. No. Part No. Description Ref. No. Part No. Description R1902 401 105 1105 MT-GLAZE 12K JA 1/16W R606 401 027 0507 CARBON 470K JA 1/6W R1903 401 105 6001 MT-GLAZE 5.6K JA 1/16W R607 401 019 9600 CARBON 47 JA 1/4W R1904...

Page 23 C4EV Ref. No. Part No. Description Ref. No. Part No. Description R863 401 105 5400 MT-GLAZE 47K JA 1/16W 610 273 7929 HOLDER LED-S4KF R866 401 024 6700 CARBON 100 JA 1/6W 610 303 9954 HOLDER LED-C4LA R869 401 024 6700 CARBON 100 JA 1/6W...

Page 24 C4EV Ref. No. Part No. Description Ref. No. Part No. Description K1002 645 061 4248 JACK,RCA-2 RESISTOR 652 001 2226 JACK,RCA-2 R701 401 105 7206 MT-GLAZE 82 JA 1/16W K1003 645 040 1275 JACK,RCA-2 R702 401 026 0607 CARBON 270 JA 1/6W 652 001 2202 JACK,RCA-2...

Page 25 Kind (M.carbon) S: Oxied metalized W: Wire wounding Rated wattage (1/2W) POSISTER may be some components or partial circuit differences between the SERVICE CP14G1-50 C: Solid RESISTOR actual chassis and the circuit diagram. REF. NO. 12 X 10 =12K 9. Parts specified with "X" are not installed in this model.

Page 26 CRT BOARD (Component Location) Waveforms & Voltages (On the Main Board) R713 IC201 (IF/VIDEO/CHROMA) R719 Q701 (B-OUT) Pin-1 2.3V 2.2V 2.7V 3.2V 2.9V 2.9V 5.0V 2.5V R711 L702 Q701A 2.3V 4.3V 4.1V 4.3V 1.6V 1.7V 1.6V 8.3V R712 2.2V 2.1V 2.1V 2.0V 2.2V...

This manual is also suitable for:

Cp14g1a