

# Sanyo CP29YS2B Service Manual



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# SERVICE MANUAL Colour Television

## Specifications

Power Source . . . . . AC127-240V, 50Hz/60Hz.

Colour System . . . . . PAL/NTSC4.43/NTSC/PAL-60Hz

Television System . . . . . B/G, D/K, I, M/M

Channel Coverage

.....

Video IF . . . . . 38.0MHz

Aerial Input Impedance . . 75Ω

Ext. Terminals

Video inputs: Phono jack x 2 (1Vp - p, 75Ω)

DVD Input: Component Video Jack-Y □ 1 (1.0Vp-p, impedance 75Ω)

Component Video Jack CB/CR □ 1 (0.7Vp-p, impedance 75Ω)

Audio inputs: Phono jack (L/R) x 2 (436mVrms, more than 40KΩ)

Video monitor outputs: Phono jack x 1 (1Vp - p, 75Ω)

Audio monitor outputs: Phono jack (L/R) x 1 (436mVrms, less than 6000)

Sound Output (RMS) . . . . 7.5W + 7.5W



..... 6 cm □ 12 cm □ 2 pcs

Speaker size

Dimensions ..... 763 (W) □ 578 (H) □ 417 (D) mm

Weight approx. .... 38.2 Kg

Specifications subject to change without notice.

BE8V/BE8W

VHF: E2 - E12,R1 - R12,K1 - K9,J1 - J12,A2 - A13

0-11, 5A (AUS), 1-11 (NZ)

UHF: 21 - 69, A14 - A69, J13 - J62, 28-69 (AUS)

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

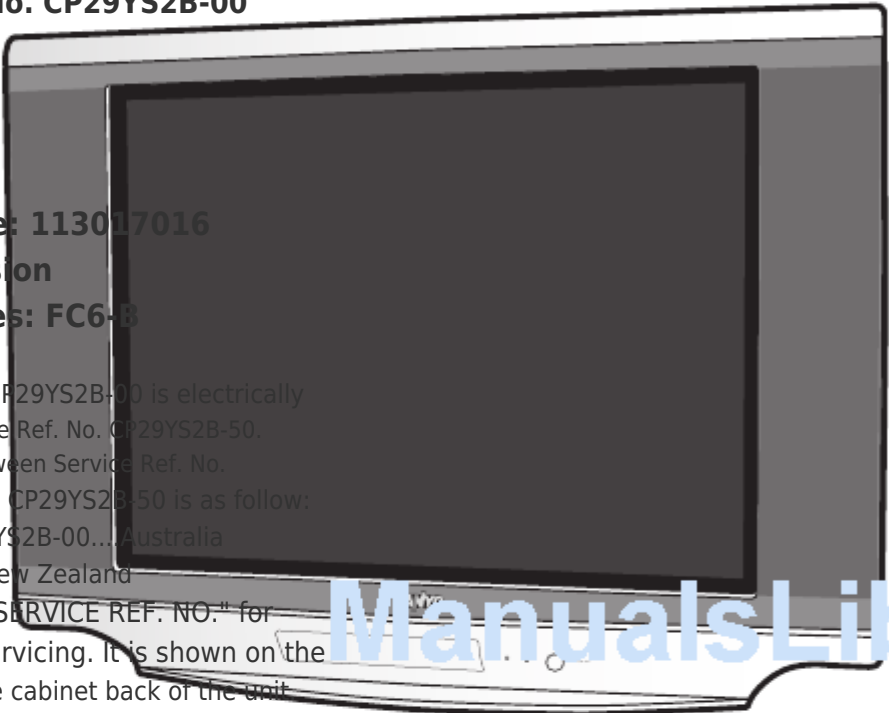
FILE NO.

## Model No. CP29YS2B

(Australia / New Zealand)

Service Ref. No. CP29YS2B-00

Page 1 of 1



Product Code: 113017016

Original Version

Chassis Series: FC6-B

- NOTE -

Service Ref. No. CP29YS2B-00 is electrically the same as Service Ref. No. CP29YS2B-50. The difference between Service Ref. No. CP29YS2B-00 and CP29YS2B-50 is as follow: Destination CP29YS2B-00....Australia CP29YS2B-50....New Zealand

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.

( )

Australia

CP29YS2B-50

( )

New Zealand

SM

3010332

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## Related Manuals for Sanyo CP29YS2B

[Colour tv Sanyo CA29YS2S Instruction Manual](#)

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[TV Sanyo CP29FS1 Instruction Manual](#)

(20 pages)

[TV Sanyo CP29SV2Z Service Manual](#)

Colour tv (28 pages)

[TV Sanyo CP29EF1K Instruction Manual](#)

(20 pages)

[TV Sanyo CP29EF1 Service Manual](#)

(37 pages)

[TV Sanyo CP29AF2 Service Manual](#)

(32 pages)

[TV Sanyo CP29KX2 Service Manual](#)

(27 pages)

[TV Sanyo CP29AF2T Service Manual](#)

(36 pages)

[TV Sanyo CP29ST2 Service Manual](#)

Colour television (51 pages)

[TV Sanyo CP29AF2X Service Manual](#)

(34 pages)

[TV Sanyo CP29AF2X Service Manual](#)

(34 pages)

[TV Sanyo CP29EF3 Service Manual](#)

(37 pages)

[TV Sanyo CA21KF3 Instruction Manual](#)

(20 pages)

[TV Sanyo CP29EF3 Service Manual](#)

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[TV Sanyo CP29FS2 Service Manual](#)

(41 pages)

[TV Sanyo CP29FS2 Service Manual](#)

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## Summary of Contents for Sanyo CP29YS2B

[Page 1](#) Service Ref. No. CP29YS2B-00 is electrically Video IF ....38.0MHz the same as Service Ref. No. CP29YS2B-50. Aerial Input Impedance . . 75Ω The difference between Service Ref. No.

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

### [Page 3: Chassis Block Diagram](#)

Chassis Block Diagrams MAIN SIGNAL PROCESSING CIRCUIT >) The headphone jack and S-

Terminal jack are not equipped in this model > >...

[Page 4](#) Chassis Block Diagrams SYSTEM CONTROL IIC SDA IIC SCL...

### [Page 5: Ic Block Diagrams](#)

IC Block Diagrams IC201 < CPU/IF/Video/Chroma/Def. > LA76938NDE56T5-E 0.022U 0.022U 0.1U 1500P 10K 0.01U 560 0.47U 100U 2.2U 0.01U 680K 100U 0.01U 100U 0.01U 0.047U 0.1U 4.43M V RAMP 0.47U 0.1U 0.015U (METAL FILM) 4.7K 100U 0.01U 0.015U 0.1U 1CHIP GND 100U 0.01U CPU GND...

### [Page 6: Ic Block Diagrams](#)

IC Block Diagrams IC001 < Audio AMP.> LA42072-E IC501 < Vertical Output >LA78141-E VCC1 VCC2 PUMP THERMAL PROTECTION OUT1- LA7846N IN1- IN1+ OUT1+ N.C. N.C. TDA8944J N.C. OUT2- IN2- IN2+ OUT2+ STANDBY/ MODE MUTE LOGIC kΩ SHORT CIRCUIT TEMPERATURE PROTECTION kΩ...

### [Page 7: Ic201 Port Function](#)

IC201 Port Function Pin No. Function Name Function Pin No. Function Name Function SIFout SIF Output (NICAM) CCD-Vcc Vcc (5V) pin for 1H delay-line IFAGC-F IF AGC Filter FBP-IN Fly Back Pulse Input SIF-IN SIF Input YC-C Y/C-C Input function FM-F Filter for the DC loop of FM detector YC-Y...

### [Page 8: Service Information](#)

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. When an abnormality occurs during TV reception, it causes pin 23 of the CPU to go continually Low for about one second.

### [Page 9: Service Adjustments With Replacing Memory Ic\(Ic801\)](#)

Service Adjustments with Replacing Memory IC(IC801) Note: The CPU (IC201) and memory IC (IC801) store the service adjustments data and controls data for each circuit. When the Memory IC(IC801) 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 10](#) Service Adjustments with Replacing Memory IC(IC801) 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 11](#) Service Adjustments with Replacing Memory IC(IC801) DATA INITIAL DATA INITIAL ITEM RANGE SETUP DESCRIPTION ITEM RANGE SETUP DESCRIPTION DATA DATA TINTDN -16~+15 DVD NTSC Tint SECAM DC Level Adj. SCM TEST 137 BELL SW Enable BELL Filter Adj. Select Y signal sensitivity for Blue Streth YGAIN 138 EQU SW Enable EQUALIZER Circuit Adj.

[Page 12](#) Service Adjustments with Replacing Memory IC(IC801) DATA INITIAL DATA INITIAL ITEM RANGE SETUP DESCRIPTION ITEM RANGE SETUP DESCRIPTION DATA DATA 0~255 ROM Correction 0~255 ROM Correction 0~255 ROM Correction 0~255 ROM Correction 0~255 ROM Correction 0~255 ROM Correction 0~255 ROM Correction 0~255 ROM Correction 0~255...

### [Page 13: Service Adjustments With Replacing Memory Ic \(Ic801\)](#)

Service Adjustments with Replacing Memory IC(IC801) [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 14: 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 13. Item 01 [RF AGC] AGC Upper NOTE: Do not attempt this adjustment with

weak signal.

## [Page 15: Service Mode Adjustments](#)

Service Mode Adjustments Items 30-33, 35-37 GREY SCALE (1) Receive a monochrome circular pattern. (2) Set the brightness and colour to normal, contrast to maximum. (3) Enter to the service mode. (4) Select No. 30 RBIAS (Red Bias), No. 31 GBIAS (Green Bias), and No. 32 BBIAS (Blue Bias) and set each data to 0 by pressing the VOLUME + or - key.

## [Page 16: 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 (+120V) Voltage Check and Grayscale Adjustment (2) Tune the receiver to an active channel and synchro- must be completed before attempting High Voltage Check.

## [Page 17: 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 18: 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: Signals: Use a pattern generator which can output red, Figure 1 Rubber wedge green, blue and white raster and crosshatch...

## [Page 19: Purity And Convergence Adjustment](#)

Purity and Convergence Adjustment CONVERGENCE ADJUSTMENT Figure 5 FOUR-POLE MAGNET TABS Preparation: After carrying out purity adjustment and SIX-POLE MAGNET TABS before proceeding to convergence adjustment, provisionally insert the rubber wedge so that there is no vertical or ANGLE sideways play in the deflection yoke. OF TABS Signals: Display a crosshatch pattern.

## [Page 20: Cabinet Parts List](#)

610 341 4768 DOOR-BB4F 610 334 6564 DEC SHEET FRONT-BB4A 610 104 2505 LATCH  
PUSH,7.9X6.9BK 645 019 2449 LATCH PUSH,7.9X6.9BK 645 069 2185  
BADGE,SANYO\*43.5X10L43.5 610 334 6427 CABINET BACK-BB5A 645 071 1145  
ASSY,REMOCON JXPSC 610 341 2689 INSTRUCTION MANUAL-BA6V-B -20-...

## [Page 21: Chassis Electrical Parts List](#)

Chassis Electrical Parts List BE8V/BE8W 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 22](#) BE8V/BE8W Ref. No. Part No. Description Ref. No. Part No. Description 4051345925  
TR 2SA1037AK-T146-R 4050144618 TR 2SC2412K T146 S 4051472215 TR 2SA1037AK-S-T146  
4050158724 TR 2SC2812-L6-TB 4051739615 TR 2SA1235A1E 4050158922 TR 2SC2812-L7-TB  
4051739714 TR 2SA1235A1F 4051631612 TR 2SC2812N-L6-TB0 Q111 4052187712 TR  
KTC3879S-Y 4051739813 TR 2SC3928A1R 4050159721...

[Page 23](#) BE8V/BE8W Ref. No. Part No. Description Ref. No. Part No. Description 4094636701  
IC KIA7805API 4040843009 ELECT 220U M 4092654806 IC L78M05CV 4032006722 ELECT 220U  
M IC3701 4095922734 IC LV1116NV-TLM-E C1007 4040970200 ELECT 10U M IC501  
4096697908 IC LA78141-E 4040843900 ELECT 10U M IC601 4105643100...

[Page 24](#) BE8V/BE8W Ref. No. Part No. Description Ref. No. Part No. Description C233  
4040970200 ELECT 10U M C3724 4032070317 CERAMIC 1U Z 4040843900 ELECT 10U M  
4032789615 CERAMIC 1U Z 4031957748 ELECT 10U M C3726 4032989619 CERAMIC 0.1U K  
C234 4032152211 CERAMIC 0.01U K C3728...



[Page 25](#) BE8V/BE8W Ref. No. Part No. Description Ref. No. Part No. Description C529  
401082704 NP-ELECT 10U M 4040973706 ELECT 220U M 160V 4040902102 ELECT 10U M  
C643 4040970507 ELECT 470U M C601 4040881704 MT-POLYEST 0.22U K 250V 4040844501  
ELECT 470U M 4040888802 MT-POLYEST 0.22U M...

[Page 26](#) BE8V/BE8W Ref. No. Part No. Description Ref. No. Part No. Description R1003  
4012567219 MT-GLAZE 18K JA 1/10W 4011055816 MT-GLAZE 56 JA 1/16W 4011052112 MT-  
GLAZE 18K JA 1/16W R121 4012567318 MT-GLAZE 6.8K JA 1/10W R1004 4011506219 MT-  
GLAZE 1K JA 1/10W 4011056615 MT-GLAZE 6.8K JA 1/16W 4011050514...

[Page 27](#) BE8V/BE8W Ref. No. Part No. Description Ref. No. Part No. Description R244  
4012566311 MT-GLAZE 47K JA 1/10W R491 4012560418 MT-GLAZE 12K JA 1/10W 4011055410  
MT-GLAZE 47K JA 1/16W 4011051115 MT-GLAZE 12K JA 1/16W R245 4012566311 MT-GLAZE  
47K JA 1/10W R492 4012560418 MT-GLAZE 12K JA 1/10W...

[Page 28](#) BE8V/BE8W Ref. No. Part No. Description Ref. No. Part No. Description R668  
4010673110 OXIDE-MT 3.9 JA 6520012806 COIL,LINEARITY R681 4011506219 MT-GLAZE 1K JA  
1/10W L461 6450055645 INDUCTOR,2200U K 4011050514 MT-GLAZE 1K JA 1/16W 6450078361  
INDUCTOR,2000U R685 4010146109 CARBON 150K JA 1/4W 6520010901 INDUCTOR, 2000UH...

[Page 29](#) BE8V/BE8W Ref. No. Part No. Description Ref. No. Part No. Description 4072065618  
ZENER DIODE UDZS-TE-1710B D464 4070995808 ZENER DIODE MTZJ7.5A D1011 4072505817  
ZENER DIODE KDZ10V 4080478902 ZENER DIODE MTZJ7.5A 4072065618 ZENER DIODE UDZS-  
TE-1710B D465 4080082406 DIODE 1N4148 D1012 4072505817 ZENER DIODE KDZ10V  
4080585600 DIODE 1SS133ST 4072065618...

[Page 30](#) BE8V/BE8W Ref. No. Part No. Description Ref. No. Part No. Description D661  
4070995204 ZENER DIODE MTZJ5.1B VA601 4071712008 VARISTOR ERZV14D471 4070568002  
ZENER DIODE RD5.1EB2 4072471300 VARISTOR SVC471D-07ABW7 4080476809 ZENER DIODE  
MTZJ5.1B VA602 4080613204 TH ICL B57238S0100M000 4080477004 ZENER DIODE  
MTZJ5.1C-52 X161 4210121906 SAW F TSF6376BL...

[Page 31](#) BE8V/BE8W Ref. No. Part No. Description Ref. No. Part No. Description R712  
4010654614 OXIDE-MT R713 4010654614 OXIDE-MT R715 4010091508 CARBON 2.7K JA 1/2W  
R716 4010091508 CARBON 2.7K JA 1/2W R717 4010091508 CARBON 2.7K JA 1/2W R723  
4011624012 MT-GLAZE 560 JA 1/10W 4011055915 MT-GLAZE 560 JA 1/16W...

### [Page 32: Component Locations](#)

Component Locations Main Board (Parts Side) CH DOWN VOL DOWN MENU AV/TV CH UP VOL UP  
D1901 A1901 SW1901 SW1902 SW1903 SW1904 SW1905 SW1906 K1102 K1003 C1003 L601-  
H2 L601-H1 C1002 C618 C618A C1103 L601A-H1 L601A-H2 C1102 SW601-H2 L601A-H4 L601A-  
H3 SW601-H1 L601-H4 L601-H3 C013...

### [Page 33: Component Locations](#)

Component Locations Main Board (Solder Side) AV/TV MENU VOL DOWN VOL UP CH DOWN CH  
UP D1904 D1903 D1901 R1913 D1905 Q886 K1003 R1003 SW1902 SW1906 SW1905 SW1904  
SW1903 SW1901 R1912 R1002 R886 A1901 D1906 R1906 R1905 R1904 R1901 R1903 R1902  
J886 C1902...

### [Page 34: Voltages And Waveforms Charts](#)

Component Locations CRT Board (Parts Side) CRT Board (Solder Side) R711 R712 R711 R713  
L702 L702 C708 C708A C708A Q705 Q705 C708 R716 R717 R716 R717 GROUND R715 R715  
Q703 Q703 Q701 Q703A Q703A J701 J701 Q701A CAUTION! HIGH-VOLTAGE AT FOCUS PIN Q701  
B-OUT A30C5...

### [Page 35: Crt Board](#)

Voltages and Waveforms Charts IC001 (AUDIO AMP.) Pin-1 14.5V 3.4V 2.2V 15.1V 7.2V 7.2V  
7.2V 7.2V 2.2V IC501 (VERT. OUT) Pin-1 15.4V 35.3V 20.2V 20.3V 36.9V 1.4V IC601 (POWER)  
Pin-1 32V N.C. 19.6V 1.2V 0.5V IC651 (5VRC) IC202 (5V1) Pin-1 11.2V Pin-1 7.1V 4.9V IC801  
(MEMORY)

[Page 36](#) SANYO Electric Co., Ltd. May /'08 /30 Printed in Indonesia...

[Page 37](#) SERIES scope and a low capacity probe. CAPACITOR N: Metalized carbon Kind (M.carbon) 8. This circuit diagram covers a basic or representative chassis only. S: Oxied metalized CP29YS2B-00 W: Wire wounding Rated wattage (1/2W) There POSISTER SERVICE C: Solid RESISTOR...

This manual is also suitable for:

[Cp29ys2b-00Cp29ys2b-50113017016](#)