



Sanyo C21ES35 Service Manual

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Colour Television

Service Manual

Model: C21ES35

Ser Ref No. C21ES35-01

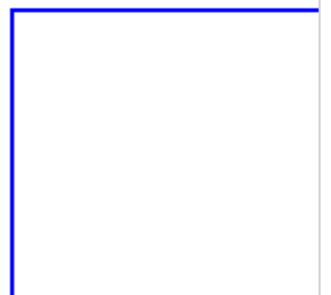
Product Code: 1113 34004

Chassis: EC5-A

Original Manual

Give complete "SERVICE REF. NO." for parts
order or servicing, it is shown on the rating sheet

SA



on the cabinet back of the TV set.

Note

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

SPECIFICATIONS

Power Source

Television System

Colour System

Receiving Channels

Aerial input impedance

AV Terminal

Speaker

Sound output

Picture tube

Visible picture

Dimensions (W x H xD) 521 x 465 x 481 mm

Weight

Part No. SKSM0178

F2TEV APRIL 1997

(W.EUROPE)

AC220~240V 50Hz

System BG

PAL

VHF : E2~E12

CATV : X,Y,Z,S1~S41

UHF : 21~69

75ohm

21 pin SCART (AV1)

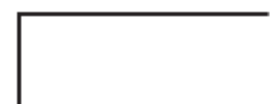
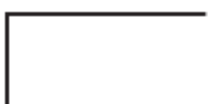
8ohm, 8 x 8 cm

2W (cont.)

55 cm diagonal, 90°

51 cm (diagonal)

21 kg

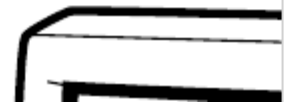


21MT2



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Related Manuals for Sanyo C21ES35

[TV Sanyo 14MT2 Instruction Manual](#)

(53 pages)

[TV Sanyo 14MT2 Instruction Manual](#)

(28 pages)

[TV Sanyo 14MT2 Instruction Manual](#)

(28 pages)

[TV Sanyo C21EF27 Service Manual](#)

Colour television (24 pages)

[TV Sanyo 21DN2F Service Manual](#)

(28 pages)

[TV Sanyo 21D2 Service Manual](#)

(25 pages)

[TV Sanyo 14MT1 Instruction Manual](#)

(24 pages)

[TV Sanyo C21ES35B Quick Start Manual](#)

(22 pages)

[TV Sanyo C21LB29S Service Manual](#)

Sanyo c21lb29s colour television service manual (30 pages)

[TV Sanyo C21TF26S Service Manual](#)

Tv (48 pages)

[TV Sanyo C21LB25S Service Manual](#)

Colour television (36 pages)

[TV Sanyo C21LB25S Service Manual](#)

(10 pages)

[TV Sanyo C21LF37 Service Manual](#)

Colour television (30 pages)

[TV Sanyo C21PS60 Service Manual](#)

(18 pages)

[TV Sanyo C21LF41 Service Manual](#)

(13 pages)

[TV Sanyo C21ZM45 Training Manual](#)

(46 pages)

Summary of Contents for Sanyo C21ES35

[Page 1: Table Of Contents](#)

21MT2 Colour Television Service Manual Model: C21ES35 (W.EUROPE) Ser Ref No. C21ES35-01
Product Code: 1113 34004 Chassis: EC5-A Original Manual 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.

[Page 2: Safety Precautions](#)

SAFETY PRECAUTION 1: An isolation transformer should be connected in the 3: When replacing a chassis in the cabinet, always be cer- power line between the receiver and the AC line when tain that all the protective devices are installed proper- a service is performed on the primary of

the converter ly, such as, control knobs, adjustment covers or transformer of the set.

[Page 3: Block Diagram Main Signal Routing](#)

BLOCK DIAGRAM (Main signal routing) This is a diagram for all models and therefore differs slightly from the actual block diagram. V out V-F/B H out Service manual-EC5 chassis...

[Page 4: Power Signal Routing](#)

(Power supply routing) Service manual-EC5 chassis...

[Page 5: Circuit Description](#)

CIRCUIT DESCRIPTION 1. POWER SUPPLY IC201, and output from pin30 (R-Y) and pin31 (B-Y). The power supply circuit of the EC5-A chassis is com- These chroma signals pass through the 1H delay line cir- posed of a rectifier smoothing circuit, an oscillation circuit, cuit (IC271), and they are input to pin29 (R-Y) and pin28 a control circuit and an output rectifier circuit.

[Page 6](#) ing signal is current amplified by the drive transformer Pin28: GND T431 and drives the output transistor Q432. When Q432 Pin29: - becomes ON, an amplifying current flows directly to DY Pin30: V-deflection stop output(Stop:Lo) through C441/C442 Q432 GND, and defec- Pin31: RGB REF Pin32: Blue output for OSD tion is performed in the last half of the scanning period.

[Page 7: Service Control Adjustments](#)

SERVICE CONTROL ADJUSTMENT B1 POWER SUPPLY ADJ. AFT ADJ. TU-AGC ADJ. MAIN BOARD SW1901 SW1902 SW1903 SW1904 SW1905 SW1906 Prog- Level+ Prog+ Level- Function Memory IC801 F601 SW601 Fuse Mains SW R638 IC802 D615 Memory VR631 +B ADJ. Q612 IC001 T611 Audio output Converter...

[Page 8](#) B1 POWER SUPPLY ADJUSTMENT HIGH VOLTAGE & WIDTH ADJUSTMENT 1. Set VR641 to be mechanical centre before pressing [HIGH VOLTAGE ADJUSTMENT] the main switch. 1. Tune the receiver to circular pattern. 2. Tune the receiver to PAL circular pattern. 2. Set brightness and contrast controls to maximum. 3.

[Page 9: Circuit Alignment](#)

CIRCUIT ALIGNMENT 10kΩ 0.002μF 75Ω 1kΩ Output probe Input probe VIF alignment Adjustment SETTING Waveform DC 15.5V C644 + By using T141, adjust "P" to AGC voltage (4.3-4.5V) IC201-pin48 be maximum amplitude. Output probe IC201-pin45 (Side b) Input probe IC201-pin7 Marker frequency 38.9MHz Sweep ATT...

[Page 10: Memory Ic Replacement](#)

MEMORY IC REPLACEMENT (Important Notice) When you replace a memory IC (IC802), it is neces- sary to initialise the IC as follows. A. Initialisation of Memory IC 1. When you press and hold the Recall button on the RC transmitter and then press the Prog + button on the TV set, the following picture will appear on the screen.

[Page 11: Special Functions](#)

Special Function Special Function Maximum volume setting and prohibition of presetting Start up programme position This TV set allows you to set up the following special functions. Maximum volume setting and prohibition of presetting ITEM-1 Sets the current volume as the maximum volume level and ITEM-1 SET 0 prohibition of presetting.

[Page 12: Cabinet Parts List](#)

CABINET PARTS LIST SERVICE REF.NO. C21ES35-01 Ref. No. Part No. Description CABINET PARTS 610 266 2887 ASSY,CABINET FR-F2TC 610 265 2383 BUTTON UNITED-F2TC 610 265 2390 BUTTON POWER-F2TC 610 265 0136 CABINET BACK-F2TC 610 265 2406 DEC IND-F2TC 610 253 2449...

[Page 13: Chassis Electricl Parts List](#)

Note: Parts order must contain Service Ref. No., Part No., and descriptions. Ref. No. Part No. Description Ref. No. Part No. Description SERVICE REF. No. C21ES35-01 Read description in the Capacitor and Resistor as follows: CAPACITOR OUT OF CIRCUIT BOARD CERAMIC 100P K 50V

Rated Voltage PICTURE TUBE...

[Page 14](#) Ref. No. Part No. Deacription Ref. No. Part No. Deacription 405 019 3804 TR 2SC536-G-NP 405 089 0109 TR 2SA1707-T Q104 406 007 2106 TR JC546A 405 009 6907 TR 2SB985-S 406 007 2007 TR JC546B 405 009 7003 TR 2SB985-T 405 019 1909 TR 2SC536-E-NP Q661...

[Page 15](#) Ref. No. Part No. Deacription Ref. No. Part No. Deacription 409 265 4806 IC L78M05CV C205 403 068 0409 CERAMIC 0.1U Z 409 172 1509 IC MC78M05CT 403 070 2606 CERAMIC 0.1U Z 409 320 5700 IC UPC78M05AHF C206 403 068 0409 CERAMIC 0.1U Z IC801...

[Page 16](#) Ref. No. Part No. Deacription Ref. No. Part No. Deacription C617 403 059 6205 POLYESTER 0.022U K R1026 401 038 7601 MT-GLAZE 560 JA 1/10W 403 179 2408 POLYESTER 0.022U K R1027 401 038 7601 MT-GLAZE 560 JA 1/10W / ! \ R1028 401 038 7601 MT-GLAZE...

[Page 17](#) Ref. No. Part No. Deacription Ref. No. Part No. Deacription R271 401 016 2604 CARBON 220 JA 1/4W R805 401 039 0403 MT-GLAZE 8.2K JA 1/10W R351 401 024 6700 CARBON 100 JA 1/6W R806 401 066 2104 OXIDE-MT 18K JA R352 401 037 5806 MT-GLAZE...

[Page 18](#) Ref. No. Part No. Deacription Ref. No. Part No. Deacription 610 239 7567 VR B-10K 407 013 6508 DIODE 1S2471 VR501 645 006 5408 VR,SEMI,100 N D251 407 012 4406 DIODE 1S5133 610 232 7908 VR,SEMI,100 N 407 012 5809 DIODE 1S5176 VR631 645 006 5514...

[Page 19](#) Ref. No. Part No. Deacription Ref. No. Part No. Deacription 407 057 8209 ZENER DIODE RD8.2EB1 405 041 6705 TR 2SC2621-E-RA 407 151 9102 ZENER DIODE UZ-8.2BCA 405 066 9903 TR 2SC2688(1)-K D649 408 007 8607 DIODE 1N4148 405 067 0008 TR 2SC2688(1)-L 407 013 1206 DIODE 1S1555...

[Page 20](#) Printed in the U.K. Sanyo Industries [U.K.] Ltd.

[Page 21](#) 21MT2 cance to product safety. It is particu- MODEL NUMBER (C21ES35) signal strength. ore sono con tutti i controlli alle loro Il transistore 2SA608(E,F) puo essere mento del TV. larly recommended that only parts 7.

[Page 23](#) L105 R102/R104/R106 1/10GJ 1/10GJ 1/10GJ TUNE Q102/Q104/Q106 R105 Q101/Q103/Q105 Waveforms on ICs and Transistors QT0378(A:B): QT0378(A:B): QT0378(A:B): R106 QT0379(A:B): QT0379(A:B): QT0379(A:B): 2SC536(E-NP): 2SC536(E-NP): 2SC536(E-NP): 2SA608(ECNP): 2SA608(ECNP): 2SA608(ECNP): F-NP:G-NP) F-NP:G-NP) F-NP:G-NP) Q105 FCNP:GCNP) FCNP:GCNP) FCNP:GCNP) IC201-pin7 IC201-pin15 IC201-pin18 IC201-pin19 IC201-pin20 R103 Q106 R104 <CVBS out>...

[Page 24](#) V out V-F/B H out...

This manual is also suitable for:

C21es35-0121mt21113 34004