





Sanyo FISHER DC-TS960WL Service Manual



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FILE NO.

**DC-TS960WL**

**DCS-HT900WL**

**(XE)**

**PRODUCT CODE No.**

**129 672 03 DC-TS960WL**

**129 672 04 DCS-HT900WL**

**SM**

**REFERENCE No.**

**5810583**



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### [Page 2: Laser Beam Safety Precaution](#)

All manuals and user guides at all-guides.com LASER BEAM SAFETY PRECAUTION • Pick-up that emits a laser beam is used in this CD player section. CAUTION : USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY

RESULT IN HAZARDOUS RADIATION EXPOSURE LASER OUTPUT ..

### [Page 3: Dvd Mechanism Replacement](#)

All manuals and user guides at all-guides.com DVD MECHANISM REPLACEMENT 1. Cautionary instructions in handling the assy (Connectors) (Safety instructions) Do not connect or disconnect while power is on. Optical pickup Connecting or disconnecting signal wires or the main power cord The laser beam used in the pickup is classified as "class 2".

[Page 4](#) All manuals and user guides at all-guides.com MECHANISM REPLACEMENT 2. How to remove the tray. Move both the right and left 1 tray pins to the ends. Rotate the 1 gear. Remove the 2 tray. Move forward the 2 tray. 5.

[Page 5](#) All manuals and user guides at all-guides.com MECHANISM REPLACEMENT 6. Base mechanism mounting parts. G-SANKOL G-SANKOL G-SANKOL G-SANKOL : Clean the groove by alcohol well. 8. Tray parts. 7. Base mechanism parts. GREASE CDF-409Z or SF-106B GREASE EM-30LG GREASE CDF-409Z or SF-106B GREASE CDF-409Z or...

### [Page 6: Wiring Connection](#)

All manuals and user guides at all-guides.com WIRING CONNECTION (DVD) SCART P.W.B AC IN A/V EURO/TV(AUDIO) IN (UK,XE Only) POWER P.W.B CN661 FU950 DIGITAL COMPONENT CN900 VIDEO OUT (7P) CN455 CN453 CN951 VIDEO MONITOR D1/D2 (2P) CN451 CN452 CN454 SYSTEM CN422 CN401 (6P)

[Page 7](#) All manuals and user guides at all-guides.com WIRING CONNECTION(Speaker Front) SPEAKERS/LED SYSTEM AC IN CN402 CN401 CN400 WR400 CN405 (9P) (8P) CN404 WR401 CN406 (2P) (4P) F4600 125V 4A T2A L250V CN407 (2P) CN300 (2P) CN501 P.W.B (8P) CN500 SOCKET P.W.B MAIN P.W.B CN252...

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[Page 9](#) All manuals and user guides at all-guides.com WIRING CONNECTION(Speaker Front , Rear, Center) SPEAKER TERMINAL Cnter SPEAKERS/LED CN600 TERMINAL P.W.B CN601(4P) CN602 (2P) P.W.B CN300 (2P) Front SPEAKERS CN600 SOCKET P.W.B CN601 (2P) Rear This is a basic wiring connection. - 8 -...

### [Page 10: Service Mode](#)

All manuals and user guides at all-guides.com SERVICE MODE A. Market / Region SETUP In the initial condition of this model, Market information and other parameters such as "Region code", "Tuner selection" and "RDS availability" are undefined. In the following cases , Market information setup is necessary. 1.

[Page 11](#) All manuals and user guides at all-guides.com SERVICE MODE C. Market information setups. 1. Entering to "Service mode entry" Following the instruction listed on "How to enter Service mode entry" above. (Reference figure) 2. Displaying Internal Set up screen Push NEXT button within 5 seconds after entering "Service mode entry".

[Page 12](#) All manuals and user guides at all-guides.com SERVICE MODE 4. Setting REGION code 4.1While a highlighted indicator is displayed on the right side of the Region denotation, push ENT key or cursor right and left keys on the remote controller . Information area updates in the following order.

[Page 13](#) Market (JP/WL , depends on the selection) Tuner (JP2, depends on the selection) RDS (None, depends on the selection) VersionS30822A2 - Brand (S: SANYO) - Version (30822: 2003,8,22) - Region (0:Region undefined or Region Free, 1~6:Region) SYSCON version (Engineering department use only)

### [Page 14: How To Load Software For System Microcomputer](#)

All manuals and user guides at all-guides.com SERVICE MODE B. IMPORTANTNOTE 1.Once the "Market information" is written into EEPROM (IC812) on the main board,"Market information" can not be modified. (However, updating the system software using CD-R enables you to make

new settings.) 2.You can exit from "Market information setup"...

### [Page 15: Tuner Adjustment](#)

All manuals and user guides at all-guides.com TUNER ADJUSTMENT J2001 CN203 J2000 L2151 R2464 J2200 J2201 TU-R C2306 XF222 R2311 R2141 C2140 AGND J2002 C2333 C2332 Q2140 D2151 TU-L R2310 R2301 R2331 C2330 TU-DO J2004 C2113 C2323 D2466 TU-CE L2503 D2301 TU\_DA R2812...

### [Page 16: Exploded View \(Cabinet & Chassis : Main\)](#)

All manuals and user guides at all-guides.com EXPLODED VIEW (CABINET & CHASSIS : Main) This is a basic exploded view. - 15 -...

### [Page 17: Parts List](#)

All manuals and user guides at all-guides.com PARTS LIST PRODUCT SAFETY NOTICE EACH PRECAUTION IN THIS MANUAL SHOULD BE FOLLOWED DURING SERVICING. COMPONENTS IDENTIFIED WITH THE IEC SYMBOL IN THE PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATED COMPONENTS IN WHICH SAFETY AND !!! PERFORMANCE CAN BE OF SPECIAL SIGNIFICANCE.

[Page 18](#) All manuals and user guides at all-guides.com PARTS LIST ELECTRICAL-PARTS REF.NO. PART NO. DESCRIPTION CN607 614 328 4093 ASSY,WIRE REF.NO. PART NO. DESCRIPTION D6002 407 003 4507 DIODE DAP202K 614 327 3752 ASSY,WIRE,FRONT-JOG D6040 407 003 3609 DIODE DAN202K 614 326 0325 ASSY,WIRE,MAIN-DG D6041 407 003 3609 DIODE DAN202K 645 057 9134 TRANS,POWER,FOR\_XE...

[Page 19](#) All manuals and user guides at all-guides.com PARTS LIST REF.NO. PART NO. DESCRIPTION REF.NO. PART NO. DESCRIPTION 407 221 1906 DIODE KDS121E L9500 645 045 8941 LINE FILTER !!! D4701 407 162 8507 DIODE DAN222 Q9001 405 146 2107 TR KTC3875-Y 407 221 1906 DIODE KDS121E 405 146 2206 TR KTC3875-GR D4801...

[Page 20](#) All manuals and user guides at all-guides.com PARTS LIST REF.NO. PART NO. DESCRIPTION REF.NO. PART NO. DESCRIPTION RN481 645 057 2159 R-NETWORK 1KX4 1/16W L1302 645 045 7869 IMPEDANCE,1000 OHM P RN510 645 057 2166 R-NETWORK 10KX4 1/16W 645 034 7887 INDUCTOR,1000 OHM RN511 645 057 2166 R-NETWORK 10KX4 1/16W 645 020 1813 INDUCTOR,1000 OHM...

### [Page 21: Exploded View \(Cabinet & Chassis : Speaker Center\)](#)

All manuals and user guides at all-guides.com PARTS LIST REF.NO. PART NO. DESCRIPTION REF.NO. PART NO. DESCRIPTION C6609 403 325 0401 ELECT 1000U M 6.3V 405 141 5707 TR DTA114YKA C6611 403 325 0401 ELECT 1000U M 6.3V Q2502 405 151 6107 TR KRA107S C6613 403 325 0401 ELECT 1000U M 6.3V 405 141 5707 TR DTA114YKA...

### [Page 22: Exploded View \(Cabinet & Chassis : Speaker Front\)](#)

All manuals and user guides at all-guides.com EXPLODED VIEW (CABINET & CHASSIS : Speaker Front) - 21 -...

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645 005 9292 PLUG,5P 645 067 6000 BADGE,FISHER\*34.2X7L33, S2901 645 062 2700 SWITCH,ROTARY FISHER BADGE(900) LED P.W.BOARD ASSY 645 040 9837 BADGE,SANYO\*35.0X7.5L35.0(960) REF.NO. PART NO. DESCRIPTION 614 327 7408 MOUNTING,BOX,FRONT,JOINT 614 327 8405 ASSY,PWB,LED(Only initial) 614 327 6760 COVER,BOTTOM,BOTTOM CAP...

[Page 24](#) All manuals and user guides at all-guides.com PARTS LIST REF.NO. PART NO. DESCRIPTION REF.NO. PART NO. DESCRIPTION CN405 645 005 8134 PLUG,8P 405 141 5608 TR DTC114YKA CN406 645 006 1813 PLUG,4P Q4602 405 151 6107 TR KRA107S CN407 645 006 1790 PLUG,2P 405 141 5707 TR DTA114YKA Q4603 405 141 3604 TR KTA1273-Y...

### [Page 25: Exploded View \(Cabinet & Chassis : Speaker Rear\)](#)

All manuals and user guides at all-guides.com EXPLODED VIEW (CABINET & CHASSIS : Speaker Rear) - 24 -...



## [Page 26: Parts List](#)

All manuals and user guides at all-guides.com PARTS LIST CABINET & CHASSIS LED P.W.BOARD ASSY REF.NO. PART NO. DESCRIPTION REF.NO. PART NO. DESCRIPTION 614 327 6876 DEC, TOP, ANT 614 327 7606 ASSY, PWB, LED (Only initial) 614 327 6814 COVER, TOP CN295 645 005 7373 PLUG, 3P 614 327 6944 HOLDER, ANT, L, INNER ANT PWB D2951 408 036 7206 LED SLZ-136B-25H-AB-T1...

[Page 27](#) All manuals and user guides at all-guides.com PARTS LIST REF.NO. PART NO. DESCRIPTION REF.NO. PART NO. DESCRIPTION HS400 614 328 1047 HEAT SINK 405 141 5707 TR DTA114YKA HS401 614 328 1054 HEAT SINK Q4909 405 146 2107 TR KTC3875-Y HS402 614 328 1054 HEAT SINK 405 146 2206 TR KTC3875-GR...

## [Page 28: Exploded View \(Dvd Mechanism\)](#)

All manuals and user guides at all-guides.com EXPLODED VIEW (DVD MECHANISM) DM17 DM17 DM02 DM18 DM18 DM20 DM04 DM26 DM03 DM05 DM27 DM21 DM28 DM06 DM29 DM22 DM07 DM19 DM30 DM23 DM41 DM32 DM24 DM36 DM25 DM33 DM08 DM17 DM18 DM34 DM17 DM18...

## [Page 29: Ic Block Diagram & Description](#)

All manuals and user guides at all-guides.com IC BLOCK DIAGRAM & DESCRIPTION FL601 Fluorecent Tube PIN CONNECTION 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 PIN NO.

[Page 30](#) All manuals and user guides at all-guides.com IC BLOCK DIAGRAM & DESCRIPTION IC100 LA9703WLS-MPB (READ CHANNEL) PREF SREF SREF1 AGOF DVD/CD FC BST PDRF ISET XHTR 370B DCOU 270P 4.3K 30KHZ LPF1 SREF LPF2 XHTR 200KHZ 150K 30KHZ FEBL LPF1 WO/PP FIN1 SREF...

[Page 31](#) All manuals and user guides at all-guides.com IC BLOCK DIAGRAM & DESCRIPTION IC100 LA9703WLS-MPB (READ Channel) Terminal No. Symbole Functions Customer OP amp. + input Power supply (For DPD) PDRF Pickup signal input Pickup signal input Pickup signal input Pickup signal input Pickup signal input Ground (For DPD) Pickup signal input...

[Page 32](#) All manuals and user guides at all-guides.com IC BLOCK DIAGRAM & DESCRIPTION IC130 LC78663NRW (DSP) A/D Block Servo Block D/A Block 8 bits Servo DSP (16x16+32 -> 32) RF-PH SLDO RF-BH SPDO RREC TBAL RF I/F Block 8 bits FBAL FC Counter TSTDO TR Counter...

[Page 33](#) All manuals and user guides at all-guides.com IC BLOCK DIAGRAM & DESCRIPTION IC130 LC78663NRW (DSP) BROCK NAME SUPPLEMENT BLOCK NAME SUPPLEMENT Survo A/D AD1 DVDD1 I/O power supply [Digital 3.3V] Survo A/D AD0 DVSS Digital GND Survo A/D JV CD data EMPH DE-EMP monitor Monitor 0...

[Page 34](#) All manuals and user guides at all-guides.com IC BLOCK DIAGRAM & DESCRIPTION IC231 LA1844ML (Audio Tuner) RF.AMP PILOT DECODER BUFF CANCEL ANTI-BIRDIE P-DET STEREO LEVEL AM/FM COMP S-CURVE BUFF PILOT 304kHz TUNING DRIVE IC400,421,423 KIA4558F (Operation Amp.) IC420,424 NJM2058 (Operation Amp.) A OUTPUT D OUTPUT OUT A D INPUT...

[Page 35](#) All manuals and user guides at all-guides.com IC BLOCK DIAGRAM & DESCRIPTION IC131 M11L416256SA-35T (DRAM) DATA-IN BUFFER CONTROL LOGIC CASL IO15 CASH CLOCK GENERATOR DATA-OUT BUFFER COLUMN COLUMN DECODER ADDRESS BUFFER SENSE AMPLIFIERS REFRESH I/O GATING CONTROLER 512 x 16 REFRESH COUNTER 512 x 512 x 16 MEMORY...

[Page 36](#) All manuals and user guides at all-guides.com IC BLOCK DIAGRAM & DESCRIPTION IC160 IKE80-E (Power Amp.) Signal stem GND SGND Thermal shutdown Input (Load outout voltage set) VCONT MUTE Match CH:ON/OFF VCCP2 MUTE1 H:Output ON, L:Output OFF 33 MUTE234 VLO- CH2,3,4 Output control VLO+...

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VREF Anode Cathode 1. INPUT 2.

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[Page 42](#) All manuals and user guides at all-guides.com IC BLOCK DIAGRAM & DESCRIPTION IC550 AD1839AAS(DAC) 35 11,19,29 AAUXDATA3 CONTROL PORT CLOCK DLRCLK VOLUME OUTL1 DBCLK DIGITAL SERIAL DATA FILTER DBDATA1 I/O PORT VOLUME OUTR1 DBDATA2 VOLUME 13 OUTL2 DIGITAL DBDATA3 FILTER VOLUME OUTR2 DAUXDATA...

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All manuals and user guides at all-guides.com BLOCK DIAGRAM(DVD Main) JCX\_PS1000 , JCX-TS960 IC821 3.3V IC131 IC851 3.3V M11L4146256SA SM8707DV-G 3.3V 64M SDRAM 4MB DRAM CLOCK 3.3V 2.5V GENERATOR FSEL PICK UP : SF-HD6AVST2 IC801 FOST,TOST IC130 3.3V AT24C08N CN456 EEPROM 8K LC78663NW AMCLK(16.9344M)

[Page 50](#) All manuals and user guides at all-guides.com BLOCK DIAGRAM (Speaker System)

ASX-PS1000WLR ASX-PS1000WLF ASX-TS960WLR ASX-TS960WLF RX ANT. JCX-PS1000 JCX-TS960 TX ANT. WLM22 WLM21 WIRELESS MODULE RX WIRELESS MODULE TX CN295(3P) CHANNEL SELECT FRONT SWITCH SPEAKER Q4901 Q4902 REAR SPEAKER SUBWOOFER CN300(2P) CN400(12P) CN405(2P)

[Page 51](#) All manuals and user guides at all-guides.com SCHEMATIC DIAGRAM (DVD MAIN) DSP-WE CN459 C5119 C5118 C5117 C5116 M3.3V -12V HP\_MUTE +12V 3.3V FROM FRONT PWB -12V (CN607) R4253 HP-L C4203 C4201 SW\_VOLIN 2.5V R4201 -30V AGND 3.3V C4253 SW\_VOLIN C\_DACOUT HP-R 0.022 R4205...

[Page 52](#) All manuals and user guides at all-guides.com SCHEMATIC DIAGRAM (DVD MAIN TOP LEFT) DSP-WE C5119 C5118 C5117 C5116 3.3V C4201 2.5V R4201 3.3V C\_DACOUT C4251 1 1 1 52 51 50 49 48 47 46 45 44 43 42 41 40 R4251 R5145 C5512...

### [Page 53: Schematic Diagram](#)

All manuals and user guides at all-guides.com SCHEMATIC DIAGRAM (DVD MAIN BOTTOM LEFT) R8501 CLK\_27M RN830 C8214 RN824 DGND DGND 27 7 27 7 BSEL0 0 14 4 FSEL FSEL -2OE C8507 C8507 L8502 1000 ACLKI X8501 27MHZ R8503 R8601 AMCLK SPDIF SPDIF...

[Page 54](#) All manuals and user guides at all-guides.com SCHEMATIC DIAGRAM (DVD MAIN TOP RIGHT) CN459 -12V HP\_MUTE M3.3V +12V FROM FRONT PWB -12V (CN607) R4253 C4203 HP-L C4201 SW\_VOLIN AGND -30V SW\_VOLIN C4253 HP-R 0.022 R4205 C\_VOLIN HP\_MUTE CN458 R4255 SL\_VOLIN P\_CON R4203 P\_CON...

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[Page 57](#) All manuals and user guides at all-guides.com SCHEMATIC DIAGRAM (TUNER , POWER SUPPLY ) PRODUCT SAFETY NOTICE EACH PRECAUTION IN THIS MANUAL SHOULD BE FOLLOWED DURING SERVICING. COMPONENTS IDENTIFIED WITH THE IEC SYMBOL ! ! ! MARK IN THE PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATED COMPONENTS IN WHICH SAFETY AND PERFORMANCE CAN BE OF SPECIAL SIGNIFICANCE.

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