



Sanyo Plc-WXU300 Service Manual

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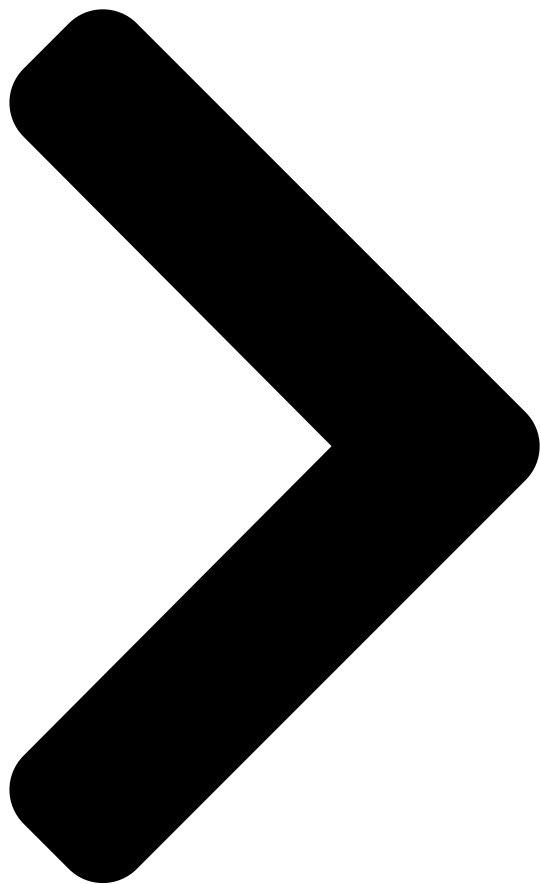
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SERVICE MANUAL

Product code

Plc-Wxu300

1 122 469 00

(KE5AC)

1 122 470 00

(LE5AC)

1 122 470 02

(LE5CC)

Multimedia Projector

Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

If the Original Version Service Manual Chassis No. does not

match the unit's, additional Service Literature is required.
You must refer to "Notices" to the Original Service Manual
prior to servicing the unit.

FILE NO.

Model No.

original Version

chassis No. Ke5-Wxu30000

REFERENCE NO.

Plc-Wxu300

U.S.A, Canada,
Europe, U.K, Asia

SM

5111074-00

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Related Manuals for Sanyo Plc-WXU300

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Sanyo multimedia projector owner's manual (82 pages)

[Projector Sanyo PLC-WXU300 - 2500 Lumens Manual](#)

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[Projector Sanyo WXU30 - PLC - LCD Projector Owner's Manual](#)

Network set-up and operation (58 pages)

[Software Sanyo PLC-XU300 - XGA LCD Projector Owner's Manual](#)

Pj network manager for windows (32 pages)

[Projector Sanyo PLC-WXU300 - 2500 Lumens Manual](#)

Basic serial command specifications (23 pages)

[Projector Sanyo PLC-WXU300 Specifications](#)

Ultra portable multimedia projector (2 pages)

[Projector Sanyo PLC-WXU300 - 2500 Lumens Brochure](#)

Ultra portable multimedia projector (2 pages)

[Projector Sanyo 3LCD PLC-WXU300 Quick Reference Manual](#)

Sanyo projector user manual (1 page)

[Projector Sanyo PLC-WXU300 Technical Information](#)

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Sanyo plc-wxu300 projector dimensional drawing (1 page)

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[Projector Sanyo PLC-WXU30 Owner's Manual](#)

Sanyo multimedia projector owner's manual plc-wxu30 (82 pages)

[Projector Sanyo PLC-WXU30 Owner's Manual](#)

(270 pages)

[Projector Sanyo PDG-DSU30 - 2500 Specifications](#)

Basic serial command specifications (17 pages)

[Projector Sanyo PDG-DSU30 - 2500 Specifications](#)

Expand serial command functional specifications (42 pages)

[Projector Sanyo XU88 - PLC XGA LCD Projector Owner's Manual](#)

Instruction manual, plc-xu88 network set up (144 pages)

Summary of Contents for Sanyo Plc-WXU300

[Page 1: Service Manual](#)

FILE NO. SERVICE MANUAL Multimedia Projector Model No. Plc-Wxu300 U.S.A, Canada, Europe, U.K, Asia original Version chassis No. Ke5-Wxu30000 Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual. If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required.

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[Page 3: Safety Instructions](#)

Safety Instructions Safety Precautions WARNING: The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line () in the schematic diagram.

[Page 4: Specifications](#)

Specifications Mechanical Information Projector Type Multi-media Projector Dimensions (W x H x D) 11.80" x 3.7" x 9.1" (316mm x 83.1mm x 31.6mm) (Not including protrusions) Net Weight 6.18 lbs (2.8 kg) 6.18 lbs (2.8 kg) Feet Adjustment 0° to 1° Panel resolution LCD Panel System 0.59"...

[Page 5: Circuit Protections](#)

Circuit Protections This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits. Thermal switch There is the thermal switch (SW90) inside of the projector to detect the internal temperature rising abnormally.

[Page 6: Warning Temperature And Power Failure Protection](#)

Circuit Protections Warning temperature and power failure protection The projector will be automatically turned off when the internal temperature of the projector is abnormally high, or the cooling fans stop spinning, or the power supplies in the projector are failed. - If the WARNING indicator is flashing, it may detect the abnormal temperature inside the projector.

[Page 7: Maintenance](#)

Maintenance Cleaning the Air Filter Filter prevents dust from accumulating on the optical elements inside the projector. Should the filters become clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat buildup and adversely affect the life of the projector. If a Filter warning icon appears on the screen, clean the filters immediately.

[Page 8: Attaching The Lens Cover](#)

Maintenance Attaching the Lens Cover When moving the projector or while it is not in use, replace the lens cap. Thread the string through the hole on the lens cap and then tie a knot in the string to secure it in place. To pass the other end of the string into the hole on the top of the projector and pull at it.

[Page 9: Lamp Replacement](#)

Lamp Replacement Lamp replacement order rePlAcEmeNt lAMP wArNING: type No. PoA-IMP131 - For continued safety, replace with a lamp assembly of the same Service Parts No. 610 343 2069 type. - Allow the projector to cool for at least 45 minutes before you open the Lamp Cover lamp cover.

[Page 10: How To Check Lamp Used Time](#)

Lamp Replacement recommendation Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat build up and short lamp life. We recommend cleaning the air filter after the projection lamp is replaced.

[Page 11: Security Function Notice](#)

Security Function Notice This projector provides security functions such as "Key lock", "PIN code lock" and "Logo PIN code lock". When the projector has set these security function on, you are required to enter correct PIN code to use the projector. If you do not know the correct PIN code to the projector, the projector can no longer be operated or started.

[Page 12: Mechanical Disassembly](#)

Mechanical Disassembly Mechanical disassembly should be made following procedures in numerical order. Screws Expression der. (Type) mm Diameter x Length Following steps show the basic procedures, therefore unnecessary step may be ignored. Caution: The parts and screws should be placed exactly the same position as the original otherwise it may cause

loss of performance and product safety.

[Page 13: Main Board, Av Panel And Fan Removal](#)

Mechanical Disassembly x Main Board, AV Panel and Fan removal 1. Remove 5 screws A (M \square .5x6) and \square screws B (M4x4) to remove the Main Board. \square . Release the hooks to remove the AV Panel, remove 3 screws C (T3x6) and screw D(M3x6) to remove the AV Board.

[Page 14: Speaker\(Sp901\), Fan \(Fn901\),Lamp Unit\(Lp900\) And Optical Unit Removal](#)

Mechanical Disassembly c Speaker(SP901), Fan (FN901),lamp unit(IP900) and optical unit removal 1. Remove the 4 screws A (T3x8) to remove the speaker holder and the Speaker (SP901). \square . Remove \square screws B (T3x8) and screw C (T3x1 \square) to remove the fan (FN901).

[Page 15: Power Board Removal](#)

Mechanical Disassembly v Power Board removal 1. Remove 3 screws A (T3x8), screw B (M3x8) and 3 screws C (M4x4) to remove the power board shield. \square . Remove the \square screws D (T3x8) to remove the Ballast board. 3. Remove the power board holder. Loose the hooks to remove the Power board.

[Page 16: Mounting Duct, Fan\(Fn903, Fn904, Fn905\) And Filter Board Removal](#)

Mechanical Disassembly b Mounting duct, Fan(FN903, FN904, FN905) and Filter Board removal 1. Remove screw A (M4x4) , \square screws B (T3x1 \square) and 4screws C (T3x6) to remove the Mounting duct top, Mounting duct bottom and fan (FN904). \square . Remove \square screws D (T3x1 \square) to remove the fans (FN903 and FN905). 3.

[Page 17: Optical Parts Disassembly](#)

Optical Parts Disassembly Before taking this procedure, remove Cabinet Top , Main Board and the Network board following to the "Mechanical Disassembly" . Disassembly requires a \square .0mm hex wrench. z Projection lens disassembly Note: The optical unit should be removed from the cabinet bottom before re- moving the projection lens.

[Page 18](#) Optical Parts Disassembly c lcd Panel/Prism Ass'y removal LCD Panel/ Prism Ass'y (M3x10) (Bottom side) Fig.3-1 IMPortANT Notice on lcd Panel/Prism Ass'y replacement LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory.

[Page 19: Panel Type Check](#)

Optical Parts Disassembly Panel type check There are \square types of LCD Panel/Prism Ass'y for this model. Either L -Type or R-Type LCD Panel/Prism Ass'y is used on the projector. Check which type of LCD Panel/Prism Ass'y is used with the figure below. When replacing the LCD Panel/Prism Ass'y, you need to take "Panel Type Check and Setting"...

[Page 20](#) Optical Parts Disassembly v Polarized glass-in disassembly (M \square .5x6)x1 Polarized glass-in Ass'y Polarized glass Fig.4 b Polarized glass, Pre-polarized glass removal * Mount the polarized glasses as the film attached side faces the LCD panel side. (Green) (red) (M \square x4) (M \square x4) Pre-Polarized Glass(G) Polarized Glass(R) Polarized Glass(G) (M \square x4)

[Page 21: Optical Unit Top Removal](#)

Optical Parts Disassembly n optical unit top removal M(\square .5x6) Optical top Fig.6 m condenser lens disassembly Condenser lens Ass'y Condenser lens Fig.7 - \square 1-...

[Page 22](#) Optical Parts Disassembly , relay lens disassembly Relay lens Ass'y Fig.8 Relay lens - \square \square -...

[Page 23: Locations And Directions](#)

Optical Parts Disassembly . locations and directions Parts Name When mounting or assembling the optical parts in the op- Integrator lens (IN) tical unit, the parts must be mounted in the specified loca- tion and direction as shown in figure below. Integrator lens (OUT) Prism beam splitter (PBS) Condenser lens (OUT)

[Page 24: Adjustments](#)

Adjustments after Parts Replacement ● : Adjustment necessary ○ : Check necessary disassembly / replaced Parts Polarized Glass Icd/ Integrator relay Power Board Main Board Prism Ass'y lens (out) lens (out) Contrast Adjustment G-Contrast adjustment ○ ● Integrator lens adjustment ○...

[Page 25: Optical Adjustments](#)

Optical Adjustments Before taking optical adjustments below, remove the Cabinet Top following to the "Mechanical Disassembly" . Adjustments require a 1.0mm hex wrench and a slot screwdriver. When you adjust Integrator lens or Relay lens adjustment, you need to disconnect FPC cables of LCD panels on the main board. Optical adjustment requires a 1.0mm hex wrench and a slot screwdriver.

[Page 26: Integrator Lens Adjustment](#)

Optical Adjustments Integrator lens adjustment Turn the projector on by a state of without FPC cables. Project all of lights on the screen. Adjust the adjustment base of integrator lens assy to make color uniformity in white. 1) If the shading appears on the left or right of the screen as shown White Fig.2-1 , loosen 1 screw...

[Page 27: Relay Lens-Out Adjustment](#)

Optical Adjustments Relay lens-Out adjustment Turn the projector on by a state of without FPC cables. Project all of lights on the screen. Adjust the adjustment base of relay lens assy to make color uniformity in white. If the shading appears on the left or right of the screen as shown in White Fig.3 , loosen 1 screw...

[Page 28: Electrical Adjustments](#)

Electrical Adjustments Service Adjustment Menu Operation to enter the service mode MeNu Select button To enter the "Service Mode" , press and hold the for more than 3 seconds. The service menu appears on the screen as follows. to adjust service data MeNu button Select button Select the adjustment group no.

[Page 29: Circuit Adjustments](#)

Electrical Adjustments Circuit Adjustments CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety. Before adjustment, please turn on the projector more than ten minutes. WARNING : uSe uV rAdIAtIoN eYe ANd SKIN ProtectIoN duriNG SerViciNG.

[Page 30: Fan Control Adjustment](#)

Electrical Adjustments 2. Fan control adjustment output Voltage adjustment 1. Enter the service mode. After replacing the Power Board readjust the Output tPFANA □. Connect a digital voltmeter to test point " " voltage adjustment as follows. (+) and chassis ground (-). Select group no. " "...

[Page 31](#) Electrical Adjustments 4. Auto Calibration adjustment [PC] 5. Auto Calibration adjustment [Component] 1. Enter the service mode. 1. Enter the service mode. 2. Receive the 16-step grey scale computer signal with 2. Receive the 8 color 100% color bar 480i-component Computer1 [RGB] mode.

[Page 32: Common Center Adjustment](#)

Electrical Adjustments 6. Auto calibration adjustment [Video] 8. 50% White adjustment [Pc] 1. Enter the service mode. 1. Enter the service mode. □. Receive the 16-step grey scale composite video sig- □. Receive the 16-step grey scale computer signal with Video nal with mode.

[Page 33](#) Electrical Adjustments Color Shading Correction adjustment 11.White Balance adjustment [Video] 1. Enter the service mode. If the correction of the Color shading adjustment is nec- □. Select group no. "252", item no. "9" and change essary, please adjust the "Color shading" by using the data value to "2"...

[Page 47](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item Group
Auto calibration (commn) * Auto calibration Executes Auto-Calibration when 0 Execute
Calibration 0 - 1 changing the Value (PC White 100%) Maximum Execution Times (OFFSET- 1
Loop Count 1 - 30 >GAIN) Result of Auto-Calibration (Last 0: OK, 1: Adjusting,9: Error *...

[Page 48](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item 1 GAIN
tolerance Tolerance of GAIN Adj. 1 - 55 Image Level Tolerance 1 - 55 Group custom
(Aspect) 0 Scaler Horizontal H-Scaler 68-13 1 Scaler Vertical H-Vertical 68-13 Connect Link
Edit 1: Link 0 - 1...

[Page 49](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item Group
ScArt(575i) 0 - 4095 1 Disp Dots 0 - 4095 H Back Porch 0 - 4095 3 V Back Porch 0 - 4095 4
Disp Line 0 - 4095 5 Clamp 0 - 55 6 Clamp Width...

[Page 50](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item H Back
Porch 0 - 4095 3 V Back Porch 0 - 4095 4 Disp Line 0 - 4095 5 Clamp 0 - 55 6 Clamp Width 0 -
55 (USB) H Back Porch 0 - 4095 3 (USB) V Back Porch...

[Page 51](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item 3 V Back
Porch 0 - 4095 4 Disp Line 1070 0 - 4095 Group rGB Video (480i) 0 Total Dots 1716 0 - 4095 1
Disp Dots 1346 0 - 4095 H Back Porch 0 - 4095 3 V Back Porch...

[Page 52](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item 6
(USB)Clamp Width 0 - 4095 Group rGB Video (720P - 50) 0 Total Dots 1980 0 - 4095 1 Disp Dots
116 0 - 4095 H Back Porch 0 - 4095 3 V Back Porch 0 - 4095...

[Page 53](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item Group rGB
Video (1080p-25) 0 Total Dots 640 0 - 4095 1 Disp Dots 1874 0 - 4095 H Back Porch 0 - 4095
3 V Back Porch 0 - 4095 4 Disp Line 1051 0 - 4095...

[Page 54](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item 0
GAM_CALG_STATUS Auto Gamma adjust Group Service Mode(read only) 0 Version Version data
1 Brand Option -54-...

[Page 55: Chassis Block Diagrams](#)

Chassis Block Diagrams chassis over view IC301 PW392 -55-...

[Page 56: System Control](#)

Chassis Block Diagrams System control IC9882 INVERTER <74LVC14APW> IC301 SYSTEM
CONTROL -56-...

[Page 57: Lamp Control](#)

Chassis Block Diagrams lamp control LAMP_PWM_A LAMP_PWM PW_MASTER_SDO
PW_MASER_SDI PW_MASTER_SCK -57-...

[Page 58: Audio Circuit](#)

Chassis Block Diagrams Audio circuit -58-...

[Page 59: Power Supply & Protection Circuit](#)

Chassis Block Diagrams Power supply & protection circuit IC631 POWER OSC. <MR4010> IC621
P.F.CONTROL <FA550> FAN_ERR Power-On:H IC301 SYSTEM CONTROL POWER_SW
POWER_ON_LAN -59-...

[Page 60: Fan Control Circuit](#)

Chassis Block Diagrams Fan control circuit 16V_FAN Q7804 TPFANA FN905 Q7812 S16V FAN_A
D3623 D3613 FN904 Q7842 D3622 FAN_DC_ON FN903 FAN_CON_B D3621 TPFANB FN901
FAN_B IC7841 PQ20W211P D3626 TPFAN_C FN902 D3644 Power-On:H IC7811 FAN_C FAN_SW1
<FA7703> D3627 FN906 D3614 Q7862 Q7813 Q7864 D3628...

[Page 61: IIC Bus Control Circuit](#)

Chassis Block Diagrams IIC bus control circuit DSub15 -61-...

[Page 62: Troubleshooting](#)

Troubleshooting Indicators and Projector condition Check the indicators for projector condition. Indicators Projector Condition LAMP POWER WARNING REPLACE red/green yellow The projector is off. (The AC power cord is unplugged.) The projector is in stand-by mode. Press the ON/STAND-BY button to turn on the projector.

[Page 63: No Power](#)

Troubleshooting No Power This projector provides a function which can be specified a defective area simply by indicating the LEDs. Connect the AC cord and press the Power button once and then check the LED indication. - When all of led indicators are not lighting, the symptom indicates that the primary power supply circuit does not operate properly.

[Page 64: No Picture](#)

Troubleshooting No Picture check following steps. No picture with all of input sources Check signal processing stage and LCD driving stage; Check RGB S&H signals at test points TP35B, TP35G, TP35R. Check power supply circuit 15V_PNL and peripheral circuit. Check ICs IC501, IC531, IC561, IC401, IC301 and peripheral circuits. No picture with Pc1 Check Q1001, Q1002, Q1005, IC5301 and peripheral circuit.

[Page 65: No Sound](#)

Troubleshooting No Sound Check following steps. check if the audio signal Check IC5001 and peripheral circuit. is observed at pins 7 and Check 1.5V power supply. 15 of Ic5001. check if the audio signal Check IC001 and peripheral circuit. is observed at pins 15 Check 1.5V AMP power supply(IC5601).

[Page 66: Control Port Functions](#)

Control Port Functions Scaler I/o Port Functions (PW392) Port Port NAME FuNctIoN SIGNAL NAME deScriPtIoN PORTA7 AV_SHUTDOWN TPA3131 CONTROL PORTA6 SW_PNL_REF Panel Reference Voltage Switch PORTA5 HDMI_DET HDMI plug Detection PORTA3 PW_UPDATE NET UPDATE FLAG PORTB7 POW_KEY POW KEY PORTB6 LAMP_LED LAMP LED DRIVER ON:H PORTB5...

[Page 67: Waveform](#)

Waveform VIdeo signal <VIdeo> HSYnc signal VSYnc signal HSYnc signal <tPdHS> VSYnc signal <tPdVS> r-S&H signal <tP35r> G-S&H signal <tP35G> B-S&H signal <tP35B> -67-...

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[Page 69](#) IC Block Diagrams ● FA5550N <MS6N1193, Ic621> ● I3e06170 <lcd driver, Ic501, Ic531, Ic561> (LATCH) ??????? (6bit) (9bit) (9bit) (9bit) (4bit) (5bit) (9bit) -69-...

[Page 70](#) IC Block Diagrams ● L3E07111 <LCD Driver & Gamma Correction, IC401> ● MP2307DN <DC-DC Converter, IC5842> -70-...

[Page 71: Ic Block Diagrams](#)

IC Block Diagrams ● NJW1156 <Audio Control, IC5001> ● PW392 <Scaler, IC301> A(23:1),D(15:0) PORTA(7:0) BHEN,RD,WR PORTB(7:0) RxD0/1 ROMWE, CS(1:0) PWM(5:0) 2WIRE(2:0) IRRcvR(2:0) DAC(3:0) ADC(7:0) PORTC(7:0) ROMOE TxD0/1 EXTINT(1:0) Turbo 80186 Microprocessor with Instruction 2-Wire Interrupt 10-bit GPIO UART JTAG Cache Serial Decoders Controller...

[Page 72](#) IC Block Diagrams ● MR4010 <Power OSC, IC631> ● PIC18F67J60<LAN CONTROL,IC8801> -72-...

[Page 73](#) IC Block Diagrams ● SiI9127 <HDMI Receiver, IC8001> ● ISL98001 <External ADC, IC2201> -73-...

[Page 74: Electrical Parts List](#)

KE5-WXU30000 Electrical Parts List Product safety should be considered when a component replacement is made in any area of a projector. Components indicated by a mark in this parts list and the circuit diagram show components whose value have special significance to product safety.

[Page 75: Electrical Parts Location](#)

KE5-WXU30000 Electrical Parts List Electrical Parts Location ● Assembled Boards A602 Filter Board A1001 AV Board A100 Main Board A2800 R/C Board A8700 CONNECT ID-1 Board A901 Ballast Board A601 Power Board ● Out Of Circuit Board FN901 Cooling Fan FN904 Cooling Fan SP901...

[Page 76: Electrical Parts List](#)

KE5-WXU30000 Electrical Parts List Electrical Parts List Note: Parts order must contain Chassis No., Part No., and Descriptions. Key No. Part No. Description Key No. Part No. Description 304 084 6300 CERAMIC 1000P K C613 303 451 4119 MT-POLYEST 1U K 450V ASSEMBLED BOARDS C614 303 451 4119 MT-POLYEST 1U K 450V C615 404 118 3609 ELECT...

[Page 77](#) KE5-WXU30000 Electrical Parts List Key No. Part No. Description Key No. Part No. Description !R602 R675 301 162 3711 MT-GLAZE 4.7K JA 1/10W 301 287 5416 MT-GLAZE 200K JA R676 301 264 2810 MT-GLAZE 1.2K FA 1/10W VARIABLE RESISTOR R683 301 265 0211 MT-GLAZE 390 FA 1/10W !VA601 407 255 6304 VARISTOR MYG3-14K300ZT R684 301 264 9314 MT-GLAZE 3.3K FA 1/10W 408 061 9701 VARISTOR S14K300E2S5M4,2...

[Page 78](#) KE5-WXU30000 Electrical Parts List Key No. Part No. Description Key No. Part No. Description 405 220 3016 TR ISA1235AC1F IC5621 410 651 0104 IC R1131D101B-TR-F Q5700 305 217 7815 TR HN1B04FE-Y TE85L IC5842 409 685 9415 IC MP2307DN Q5701 305 174 1819 TR CPH3424-TL-E IC5851 410 643 5100 IC PQ070XNB1ZPH Q5751 305 217 6917 TR TPC6107 TE85L IC5860 409 685 9415 IC MP2307DN Q5752 406 021 7804 TR 2SC4617 IC592 309 461 7822 IC PQ20WZ11 Q5828...

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[Page 80](#) KE5-WXU30000 Electrical Parts List Key No. Part No. Description Key No. Part No. Description 303 424 1510 ELECT 10.0U M C3506 303 381 5316 ELECT 100U M C2891 303 453 8917 CERAMIC 0.1U K C3508 303 401 3810 ELECT 10U M 303 453 8610 CERAMIC 0.1U K 303 424 1510 ELECT 10.0U M 303 409 3426 CERAMIC 0.1U K C3509 303 396 9613 CERAMIC 1U K C2892 303 453 7217 CERAMIC...

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303 409 3426 CERAMIC 0.1U K C5862 303 155 2213 CERAMIC 3300P K C8011 303 409 3426 CERAMIC 0.1U K...

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[Page 86](#) KE5-WXU30000 Electrical Parts List Key No. Part No. Description Key No. Part No. Description R1027 301 150 6014 MT-GLAZE 0.000 ZA 1/10W R1458 301 226 1516 MT-GLAZE 0.000 ZA 1/16 R1028 301 253 7819 MT-GLAZE 82 JA 1/4W R1459 301 226 1516 MT-GLAZE 0.000 ZA 1/16W R1029 301 225 2019 MT-GLAZE 680 JA 1/16W R1582 301 294 3115 MT-GLAZE 1K FA 1/16W R1030 301 225 1418 MT-GLAZE...

[Page 87](#) KE5-WXU30000 Electrical Parts List Key No. Part No. Description Key No. Part No. Description R306 301 256 6611 MT-GLAZE 68K JA 1/10W R3804 301 225 8110 MT-GLAZE 10 JA 1/16W R3062 301 226 1516 MT-GLAZE 0.000 ZA 1/16W R3856 301 226 1516 MT-GLAZE 0.000 ZA 1/16W R307 301 150 5918 MT-GLAZE 10K JA 1/10W R3857 301 226 1516 MT-GLAZE 0.000 ZA 1/16W R308 301 225 8011 MT-GLAZE 330 JA 1/16W...

[Page 88](#) KE5-WXU30000 Electrical Parts List Key No. Part No. Description Key No. Part No. Description R5061 301 224 9316 MT-GLAZE 1K JA 1/16W R5703 301 224 9019 MT-GLAZE 10K JA 1/16W R5062 301 225 0213 MT-GLAZE 3.3K JA 1/16W R5704 301 224 8814 MT-GLAZE 100 JA 1/16W R5063 301 224 9316 MT-GLAZE 1K JA 1/16W R5705 301 224 9019 MT-GLAZE 10K JA 1/16W R5064 301 224 9316 MT-GLAZE 1K JA 1/16W R5706 301 224 9019 MT-GLAZE...

[Page 89](#) KE5-WXU30000 Electrical Parts List Key No. Part No. Description Key No. Part No. Description R6882 301 225 1210 MT-GLAZE 4.7K JA 1/16W R8033 301 225 0312 MT-GLAZE 33 JA 1/16W R6883 301 225 1210 MT-GLAZE 4.7K JA 1/16W R8034 301 225 0312 MT-GLAZE 33 JA 1/16W R691 301 162 2417 MT-GLAZE 1.2K JA 1/10W R8036 301 225 0312 MT-GLAZE 33 JA 1/16W R692 301 150 6212 MT-GLAZE 1K JA 1/10W R8037...

[Page 90](#) KE5-WXU30000 Electrical Parts List Key No. Part No. Description Key No. Part No. Description R8802 301 226 1516 MT-GLAZE 0.000 ZA 1/16W R9902 301 224 9019 MT-GLAZE 10K JA 1/16W R8804 301 225 1210 MT-GLAZE 4.7K JA 1/16W R9903 301 224 9019 MT-GLAZE 10K JA 1/16W R8805 301 224 9316 MT-GLAZE 1K JA 1/16W R9904 301 224 9019 MT-GLAZE 10K JA 1/16W R8806 301 226 1516 MT-GLAZE 0.000 ZA 1/16W R9905 301 224 9019 MT-GLAZE...

[Page 91](#) KE5-WXU30000 Electrical Parts List Key No. Part No. Description Key No. Part No. Description RB419 945 036 0986 R-NETWORK 47X4 1/32W 945 037 0817 R-NETWORK 0X4 1/16W 945 037 0831 R-NETWORK 47X4 1/16W RB567 945 036 3529 R-NETWORK 0X4 1/32W RB421 945 036 0986 R-NETWORK 47X4 1/32W 945 037 0817 R-NETWORK 0X4 1/16W 945 037 0831 R-NETWORK 47X4 1/16W RB568 945 028 0697 R-NETWORK 100X4 1/16W RB422 945 036 0986 R-NETWORK 47X4 1/32W RB569 945 036 3529 R-NETWORK 0X4 1/32W 945 037 0831 R-NETWORK 47X4 1/16W 945 037 0817 R-NETWORK 0X4 1/16W RB423...

[Page 92](#) KE5-WXU30000 Electrical Parts List Key No. Part No. Description Key No. Part No. Description L3531 652 002 8500 INDUCTOR 330 OHM L8004 945 086 6600 IMPEDANCE,220 OHM P L3534 945 041 2210 INDUCTOR,0.12U K L8006 945 086 6600 IMPEDANCE,220 OHM P L3561 652 002 8500 INDUCTOR 330 OHM L8007 945 086 6600 IMPEDANCE,220 OHM P L3621 652 002 8524 INDUCTOR 220 OHM L8010 945 070 3660 INDUCTOR,90 OHM L3622 652 002 8524 INDUCTOR 220 OHM L8011 945 070 3660 INDUCTOR,90 OHM L3623...

[Page 93](#) KE5-WXU30000 Electrical Parts List Key No. Part No. Description Key No. Part No. Description MISCELLANEOUS D3644 307 163 0414 DIODE 1S5352-(TPH3) 307 149 0810 DIODE 1S5355-TE-17 K10A 945 075 4945 SOCKET,IF(HDMI) 19P D4812 307 223 1115 ZENER DIODE 02DZ6.2Y(TPH3 645 095 3637 SOCKET,IF(HDMI) 19P 307 209 1214 ZD UDZS-TE-176.2B 945 085 7431 SOCKET,IF(HDMI) 19P D4813 307 223 1115 ZENER DIODE 02DZ6.2Y(TPH3 K10B 952 001 8601 SOCKET,D-SUB 15P 307 209 1214 ZD UDZS-TE-176.2B K10C 952 001 8571 SOCKET,D-SUB 15P D5061...

[Page 94](#) KE5-WXU30000 Electrical Parts List Key No. Part No. Description Key No. Part No. Description RESISTOR R3061 301 255 6513 MT-GLAZE 100 JA 1/10W R3063 301 150 5819 MT-GLAZE 100K JA 1/10W R8738 301 226 1516 MT-GLAZE 0.000 ZA 1/16W R3064 301 255 6513 MT-GLAZE 100 JA 1/10W COIL COIL L8731 945 086 6037 IMPEDANCE,330 OHM P L2001 945 068

8318 FILTER,EMI 100MHZ L8732 945 086 6037 IMPEDANCE,330 OHM P...

[Page 95: Mechanical Parts List](#)

KE5-WXU30000 Mechanical Parts List Cabinet Parts Location -95-...

[Page 96: Optical Parts Location](#)

KE5-WXU30000 Mechanical Parts List Optical Parts Location Integrator Lens-In (Integrator-In) (PBS) (Integrator-Out) Relay Lens-Out (Relay-out) -96-...

[Page 97](#) KE5-WXU30000 Mechanical Parts List Polarized Glass-In L02-R (Polarized-in-R) L02-G (Polarized-in-G) L02-B (Polarized-in-B) Projection Lens (Projection Lens) -97-...

[Page 98](#) KE5-WXU30000 Mechanical Parts List Prism/LCD Panel Assy (Red) (Green) L01-G L01-R L01-B (Blue) (Prism/LCD panel Assy) -98-...

[Page 99](#) KE5-WXU30000 Mechanical Parts List In the Optical Unit Rugged surface is facing this side. Rugged surface is facing this side. Film attached side is facing this side. -99-...

[Page 100: Mechanical Parts List](#)

COVER ,LP SERVICE-KG5AC C10 610 343 0942 DEC INLAY RC-KG5AC C11 910 325 2477 DEC LEG-PT5EC C12 610 344 1795 PANEL AV-KE5AC C13 610 343 3943 PANEL NET F-KG5AC C14 610 343 3950 PANEL NET B-KG5AC C15 945 047 8032 BADGE,SANYO*26.2X5.7L26.0 CHASSIS PART M01 610 342 5795 HOLDER INT PBS BTM-KG5AC M02 610 342 5788 HOLDER INT PBS TOP-KG5AC M03 610 343 1093 HOLDER LAMP HOUSE-KG5AC M04 610 343 1109 HOLDER POW PWB-KG5AC M05 610 343 1314 MTG RELAY OUT-KG5AC M06 610 343 1307...

[Page 101](#) KE5-WXU30000 Mechanical Parts List -101-...

[Page 102](#) SANYO Electric Co., Ltd. (KE5AC) July. 2009 DC 200 Printed in Japan...

[Page 103: Diagrams & Drawings](#)

Schematic Diagrams Printed Wiring Board Drawings Model Chassis No. PLC-WXU300 KE5-WXU30000 These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. KE5-WXU30000, model PLC- WXU300. File with the service manual No. SM5111074-00.

[Page 104: Parts Description And Reading In Schematic Diagram](#)

KE5-WXU30000 Parts description and reading in schematic diagram 1. The parts specification of resistors, capacitors and Resistor Reading coils are expressed in designated code. Please check Example 1/2 D J 10K B the parts description by the following code table. 2.

[Page 105](#) KE5-WXU30000 Pin description of diode, transistor and IC ● Diode ● Transistor/FET ● IC...

[Page 106: Note On Soldering](#)

Note on Soldering Do not use solder containing lead. Solder This product has been manufactured using lead-free Use solder with the metal content and composition ratio solder in order to help preserve the environment. by weight given in the table below. Do not use solders Because of this, be sure to use lead-free solder which do not meet these conditions.

[Page 107](#) Schematic Diagrams LAMP ID IC8741 LAMP_5V_ID PROJECTION LENS C8741 R8759 :16KK0.1AYH:16KK0.1AXH 1/16GJ4.7KA R8760 1/16GZ0A ICSPDATA FILTER POWER RA5/T1CKI/OSC1/CLKIN RA0/AN0/C1IN+/ICSPDAT/ULPWU ICSPCLK RA1/AN1/C1IN-/VREF/ICSPCLK RA4/AN3/%oT1G%%o/OSC2/CLKOUT C611 RC2/AN2/T0CKI/INT/C1OUT R8761 1/16GZ0A 1000KK L611 RA3/%oMCLR%%o/VPP AC100-120V 1000NH F35B1630N 5 RC5/RX/DT RC0/AN4/C21N- AC200-240V :1000KK1000LBZB POWER FACTOR CORRECTION RC4/C2OUT/TX/CK RC1/AN5/C21N+ LAMP1_ID_C...

[Page 108](#) R2000 1/10GZ0C C2003 CT0J470MJRANG R2017 C2011 16KK0.1MN 1/16GJ47KA R2037 ;16KK0.1AYH C2012 1/16GJ10A ;16KK0.1AXH Q2011 TXXLBB013P 16KK0.1MN ;16KK0.1AYH R2013 ;16KK0.1AXH 1/16GJ56KA R2014 1/16GJ470A S3.3VSI K10A R2016

J11B6930M 1/16GJ1KA SIOUTB[0-9] R2027 C2021 1/16GJ47KA R2038 6.3KK10MB Q2021 C2022 ;6.3KK10BA 16KK0.1MN K10A_19 1/16GJ10A TXXLBB013P ;16KK0.1AYH ;16KK0.1AXH R2023...

[Page 109](#) R1301 1/16GF1.2KA S3.3VPW S2.6VPW S2.6VPW S1.3VREF S2.6VPW IC1301 IC1321 R840 R1302 1/16GF1.2KA 1/16GJ3.3KA C1303 C1323 16KK0.1MN 16KK0.1MN TICE MD[8] MD[7] MD[24] MD[23] C1304 DQ15 C1324 DQ15 16KK0.1MN 16KK0.1MN S3.3VPW VDDQ VSSQ VDDQ VSSQ T3VFL MD[9] MD[6] MD[25] MD[22] DQ14 DQ14 G-SENSOR MD[10] MD[5]...

[Page 110](#) IC9883 TC7SZ125FUK R410 1/16GZ0A R426 1/16GJ10KA TO IC561 (S&H) R427 1/16GZ0A RESET R G B COMMON C428 16KK0.1MN :16KK0.1AYH :16KK0.1AXH R424 1/16GJ4.7KA R430 RB437 R1JA4704G R404 R472 IRM_RST C425 SDATA R406 1/16GZ0A SDATA_PW SCLK R407 1/16GZ0A SCLK_PW FROM IC301 P3 R408 1/16GZ0A SCS_PW...

[Page 111](#) <FROM:IC301> <FROM:IC1423> (PW190) (UPC324) 15V_PNL R1419 1/16GJ1.5KA (BLUE) TP_VREFB R1424 1/16GJ4.7KA Q1421 R1420 1/16GJ56KA SW_PNL_REF Q1422 15V_REF TXXLBB013P R1430 C1421 10KK1MN B_LCCOM R3503 L501 L26B3470G 16EM1001X C3506 3.3V_B_MON C507 C509 16KK101G 25KK2.2BA 25KK11D C3504 <FROM:IC401> R508 1/16GZ0A 1/16GJ47KA (L3E07111K0A) R3502 B_VID[1-12] L502...

[Page 112](#) EXHAUST SIDE EXHAUST FN903 FN904 LAMP IN FN905 POWER SIDE LAMP FN901 B-PNL G-PNL R-PNL FN902 FN906 J10EG J10EG J10EG J10EG J10EG 035G 035G 035G J10EG 036G 035G 035G L3639 L3629 L3632 L3642 L3692 L3634 L3BE221PG L3BE221PG L3BE221PG L3BE221PG L3BE221PG L3627 L3626...

[Page 113](#) 3.3V_LAN R8822 3.3V_STB R8817 3.3V_LAN R8823 R8818 R8819 R8824 R8850 R8816 R8820 1/16GF2.2KA 1/8GZ000 R8825 R8863 R5754 R8826 TPOUT+ L5702 1/16GJ10KA L26B3470G C8810 TPOUT- 16KK0.1MN 3.3V_LAN ;16KK0.1AYH C8811 ;16KK0.1AXH 3.3V_LAN R5753 C5753 16KK0.1MN D8902 10KK1MN 1SS400G 1/16GJ1KA ;16KK0.1AYH ;1SS387G C8809 ;16KK0.1AXH 16KK0.1MN P_FAIL_LAN...

[Page 114](#) C2001 16KK0.1MN S_SW_EXT R2002 K20B_6 1/16GJ100A L2011 L2012 1/10GZ0.0 S_CHROMA_EXT K20B_4 K30C J12B06000 R2112 R2127 SC2011 R2012 1/10GZ0C 1/10GZ0C Z30B 1/3GJ75 S-VIDEO 0220G R3061 L3063 1/10GJ100C K30C_3 L2021 L2022 OUT_R_EXT AUDIO_OUT C3061 1/10GZ0.0 CJ100DAY R3063 K20B_3 S_Y_EXT 1/10GJ100KC K30C_2 R2128 K20B_1 1/10GZ0C SC3061...

[Page 115](#) Printed Wiring Board Diagrams ! CAUTION R/C (SIDE:A) R/C (SIDE:B) This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing 1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.

[Page 116](#) MAIN (SIDE:A) LINE FILTER (SIDE:A) LAMP BALLAST FN905 FN903 "K29D" UNIT R1458 R1459 C598 IC1424 L3621 D591 IC592 C1432 THERMAL SW FN902 R1446 L3641 R1429 C5540 C1422 R1431 R1427 L3642 SW902 R3602 R1428 R1432 Q3601 R1433 L3627 IC5543 IC9882 C5025 D3603 D3604 IC1422...

[Page 117](#) MAIN (SIDE:B) LINE FILTER (SIDE:B) C7812 L5608 L5606 R7834 Q7812 R7828 L5609 R7829 C7818 IC7811 R5622 R5704 Q7804 R692 K9880 R7819 R7804 C5706 C7806 R7833 C7817 R5701 R7821 1LG4B10W0280A_A Q7864 R691 C5705 C7813 C599 L7811 ??? *** L5701 R7831 R7824 R7832 C7811 R7806...

[Page 118](#) No dAtA PCB_KE5AC...