



Sanyo PLC-WXU30 Service Manual

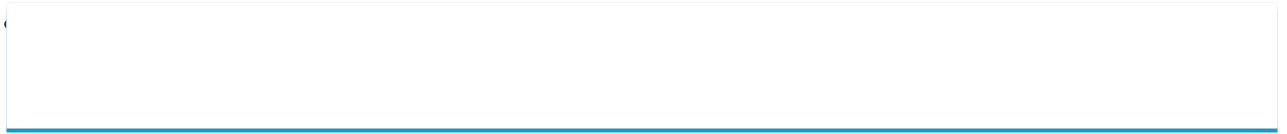
Multimedia projector

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Troubleshooting

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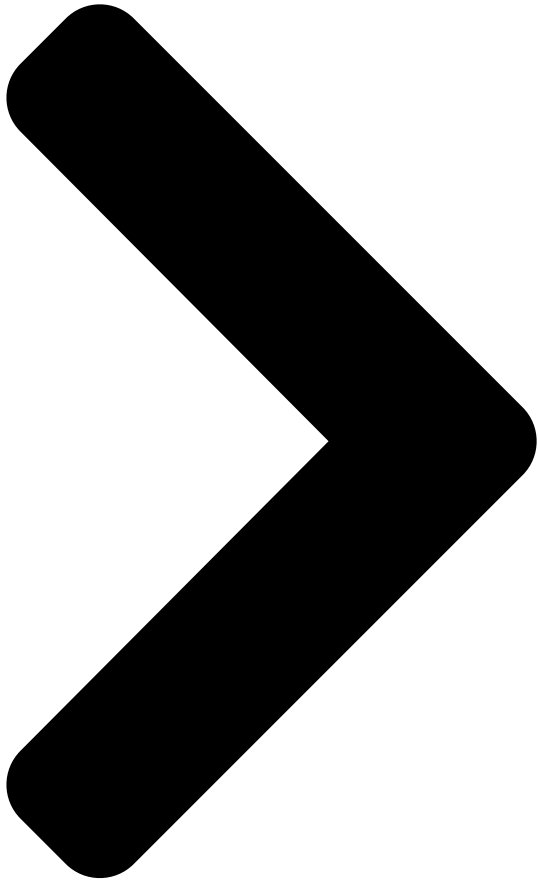
Bookmarks

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[Download this manual](#)

See also: [Owner's Manual](#)



SERVICE MANUAL

Product code

1 122 377 00

(KB3AC)

1 122 378 00

(LB3AC)

1 122 378 02

(LB3CC)

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 re-



quired. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

FILE NO.

Model No. PLc-WXu30

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

original Version

chassis No. KB3-WXu3000

REFERENCE NO.

SM

5110918-00

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Related Manuals for Sanyo PLC-WXU30

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

(270 pages)

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

Network set-up and operation (144 pages)

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

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

[Projector Sanyo PJLink PLC-WXU30K Owner's Manual](#)

(82 pages)

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

Memory viewer function (13 pages)

[Projector Sanyo PLC-XE32 Brochure](#)

Sanyo projectors product brochure (12 pages)

[Projector Sanyo PLC-WXU30 Specifications](#)

(2 pages)

[Projector Sanyo PLC-WXU30 Command List](#)

Ir command list (1 page)

[Projector Sanyo PLC-WXU30A - 3700 Lumens Specification Sheet](#)

3700 ansi lumens, wireless & wired networking projector (1 page)

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

Rs232 expand (73 pages)

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

Basic serial command specifications (23 pages)

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

Basic serial command specifications (17 pages)

[Projector Sanyo PLC-WXU300 Dimensional Drawing](#)

Sanyo plc-wxu300 projector dimensional drawing (1 page)

[Projector Sanyo PLC-WXU300 Command List](#)

Ir command list (1 page)

Summary of Contents for Sanyo PLC-WXU30

[Page 1: Service Manual](#)

FILE NO. Multimedia Projector Model No. PLC-WXu30 SERVICE MANUAL U.S.A, Canada, Europe, U.K, Asia original Version chassis No. KB3-WXu3000 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 re-...

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Network (MCI) circuit56 Safety Instructions3 Troubleshooting57 Safety
Precautions 3 Indicators and Projector Condition57 Product Safety Notice3
No Power

[Page 3: Safety Instructions](#)

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacture's instructions. Replace Battery With SANYO Electric Co., Ltd., Part No. 645 089 8587 Only. Use of Another Battery May Present A Risk Of Fire or Explosion.

[Page 4: Specifications](#)

Specifications Mechanical Information Projector Type Multi-media Projector Dimensions (W x H x D) 334 mm x 78 mm x □57.5mm (Not including adjustable feet) Net Weight 3.7 kg Feet Adjustment 0° to 8.9° Panel resolution LCD Panel System 0.74" TFT Active Matrix type, 3 panels Panel Resolution 1,□80 x 800 dots Number of Pixels...

[Page 5: Circuit Protections](#)

Circuit Protections This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the pro- jector, 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 Filter Filter prevents dust from accumulating on the optical elements inside the projector. Should the filter becomes 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 filter immedi- ately.

[Page 8: Lamp Replacement](#)

Maintenance Lamp Replacement When the projection lamp of the projector reaches its end of life, Top Control the Lamp replacement icon appears on the screen and LAMP REPLACE indicator lights yellow. Replace the lamp with a new one promptly. The timing when the LAMP REPLACE indicator LAMP REPLACE should light is depending on the lamp mode.

[Page 9: Resetting The Lamp Counter](#)

Maintenance Resetting the Lamp Counter Be sure to reset the Lamp counter after the lamp is replaced. When the Lamp counter is reset, the LAMP RE- PLACE indicator stops lighting and the Lamp replacement icon disappears. Lamp counter Press the MENU button to display the On-Screen Menu. Use the Point 7 8 buttons to move the red framed pointer to the Setting Menu icon.

[Page 10: Cleaning](#)

Maintenance Cleaning After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit. Remove dust and other particles using air spray.

[Page 11: Security Function Notice](#)

Security Function Notice Security Function Disable 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 or- Screws Expression der. (Type) mm Diameter x Length Following steps show the basic procedures, therefore unnecessary step may T type M Type 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](#) Mechanical Disassembly x Main Board, AV Board, Rear Panel and Fans removal 1. Remove the Main board. □. Remove the Rear panel. 3. Remove AV board. 4. Remove fans (FN901, FN90□). Main board Rear panel (T3x6)(Black)x□ (M□.5x6)x5 AV board (M□.5x6) (T3x6)x□ FN901 FN90□...

[Page 14](#) Mechanical Disassembly v Optical unit, NETWORK board, Buzzer, Temp., Line Filter board, Fans removal 1. Remove the Optical unit. □. Remove the NETWORK board. 3. Remove the Battery and Buzzer board. 3-1. Remove Screw (T3x8) and 4 hooks on the duct and then remove the Duct.

[Page 15](#) Mechanical Disassembly b Power, Ballast, Lamp Cover Sw Board, Thermal Sw(SW902) removal 1. Remove the Power board. □. Remove the Ballast board. 3. Remove the Lamp cover switch board and thermal switch (SW90□). Isolation sheet (□ sheet) (T3x6) Power board (T3x6)x□ Ballast board Lamp cover...

[Page 16: Optical Parts Disassembly](#)

Optical Parts Disassembly Before taking this procedure, remove Cabinet Top , Cabinet Front and Main Board following to the "Mechanical Dis- assembly". Disassembly requires a □.0mm hex wrench. z Projection lens disassembly Note: The optical unit should be removed from the cabinet bottom before removing the projection lens. Optical unit Projection lens (M□.5x8)x4...

[Page 17](#) Optical Parts Disassembly c Relay lens disassembly (M□.5x5)x□ Relay lens Ass'y Spring Relay lens Fig.3 v Polarized glass-in disassembly (M□.5x5)x1 Polarized glass-in Ass'y Film sheet Polarized glass Hooks * Mount the polarized glass as the film at- tached side faces the Fig.4 prism side.

[Page 18](#) Optical Parts Disassembly b LCD Panel/Prism Ass'y removal LCD Panel/ Prism Ass'y (M□.5x4)x□ (M3x10) (Bottom side) Fig.5-1 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](#) Optical Parts Disassembly Panel Type Check There are □ 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 Unit Top Removal](#)

Optical Parts Disassembly n Polarized glass, Pre-polarized glass removal * Mount the polarized glasses as the film attached side faces the LCD panel side. (M□x□) (Green) Pre-Polarized Glass(G) Polarized Glass(G) (red) (M□x□) Pre-Polarized Glass(B) Film Polarized Glass(R) Polarized Glass(B) Fig.6 (Blue) m Optical unit top removal 1.

[Page 21: Locations And Directions](#)

Optical Parts Disassembly , Locations and Directions Parts Name When mounting or assembling the optical parts in the opti- cal unit, the parts must be mounted in the specified loca- Integrator lens (OUT) tion and direction as shown in figure below. Prism beam splitter (PBS) Condenser lens (OUT) Dichroic mirror (B)

[Page 22: Adjustments](#)

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

adjustment ● B-Contrast adjustment ●...

[Page 23: 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 24: 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 25: 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 26: 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 27: 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 28](#) Electrical Adjustments Gain adjustment [Pc] x Panel Type Check and Setting 1. Enter the service mode. * Before setting, you need to check which type of LCD panel. Receive the 16-step grey scale computer signal with computer2 [rGB] el is placed on the projector according to the item "LCD mode.

[Page 29: Common Center Adjustment](#)

Electrical Adjustments Gain adjustment [component] n Common Center adjustment 1. Enter the service mode. 1. Enter the service mode. 1. Receive the 16-step grey scale computer signal with computer2 [rGB] 1. Receive the 50%-Whole Gray computer signal with mode. tP_G1 computer2 [rGB] mode.

[Page 30: Note On White Uniformity Adjustment](#)

Electrical Adjustments . 50% White adjustment [Video]/1 Keystone Offset adjustment 1. Enter the service mode. After replacing the G-sensor circuit (IC3851, IC180 1. Receive the 16-step grey scale composite video signal and peripheral circuit), readjust the Keystone Offset Video[Video] nal with mode.

[Page 31: Test Points And Locations](#)

Electrical Adjustments Test Points and Locations MAIN BoArd -31-...

[Page 32: Service Adjustment Data Table](#)

Electrical Adjustments These initial values are the reference data written from the Service Adjustment Data Table CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with "*" are required to readjust following to the "Electrical adjustments". Other items should be used with the initial data value.

[Page 33](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item 150

PreCoast YCbCr 480i 0 - 63 151 PostCoast YCbCr 480i 0 - 63 151 PreCoast YCbCr 575i 0 - 63 153
PostCoast YCbCr 575i 0 - 63 154 PreCoast YCbCr 480p 0 - 63 155 PostCoast YCbCr 480p 0 - 63...

[Page 34](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item Motion Adaptive Weight <KDEINT> 0 - 55 Value 0 : Conservative <====> 4 : 1 Angle Interpolation Level 0 - 4 Aggressive CUE Low Pass Filter Enable <CUELPFEN> 0 - 1 Group deinterlacer setting Effective only for Progressive ON-L mode.

[Page 35](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item Film Detection Sensitivity 1 Video Motion Sensitivity 1 - 5 <VOFSTVT> Video Motion Threshold Low <VOFTHRDA> 0 - 3767 Video Motion Threshold <VOFTHRDB> 0 - 3767 High 4 Global Motion Threshold <GMDTHRD>...

[Page 36](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item 33 LineR1 0-103 (MIN<-->MAX Cyclic Operation) 34 LineR 0-103 (MIN<-->MAX Cyclic Operation) 35 LineR3 0-103 (MIN<-->MAX Cyclic Operation) 36 LineR4 0-103 (MIN<-->MAX Cyclic Operation) 37 LineG0 0-103 (MIN<-->MAX Cyclic Operation) 38 LineG1 0-103 (MIN<-->MAX Cyclic Operation)

[Page 37](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item 10 FrontCTalkB-End 0-55 103 R-DCOffset-NGain 0-103 Scan Direction (Front/Rear) 104 R-DCOffset-N1 0-103 Scan Direction (Front/Rear) 105 R-DCOffset-N 0-103 Scan Direction (Front/Rear) 106 R-DCOffset-N3 0-103 Scan Direction (Front/Rear) 107 R-DCOffset-N4 0-103 Scan Direction (Front/Rear) 108 R-DCOffset-N5 0-103...

[Page 38](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item 171 B-DCOffset-P3 0-103 Scan Direction (Front/Rear) 17 B-DCOffset-P4 0-103 Scan Direction (Front/Rear) 173 B-DCOffset-P5 0-103 Scan Direction (Front/Rear) 174 B-DCOffset-P6 0-103 Scan Direction (Front/Rear) 175 B-DCOffset-P7 0-103 Scan Direction (Front/Rear) 176 B-DCOffset-P8 0-103 Scan Direction (Front/Rear)

[Page 39](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item B-LCCOM 0-511 3 R-LCCOM-Gain 0-55 4 G-LCCOM-Gain 0-55 5 B-LCCOM-Gain 0-55 6 R-LCCOM-Bright 0-55 7 G-LCCOM-Bright 0-55 8 B-LCCOM-Bright 0-55 9 R-LCCOM-Cent 0-63 10 G-LCCOM-Cent 0-63 11 B-LCCOM-Cent 0-63 1 R-ENBX-PW 0-17 13 G-ENBX-PW...

[Page 40](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item 33 Lamp total time(for life test) For test purpose 40 PreScaler 0-55 41 Htime 0-65535 50 Lamp Replacement Display Lamp Warning Display On / Off 0 - 1 1: On, 0: Off 51 Filter Warning Display Filter Warning Display On / Off 0 - 1...

[Page 41](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item Luminance Level 11 Data for 10 DIMMER_CTRL_LEVEL11 Dimmer: Dim Level 11 at the less 0 - 55 than the Value Luminance Level 1 Data for 11 DIMMER_CTRL_LEVEL1 Dimmer: Dim Level 1 at the less 0 - 55 than the Value Luminance Level 13 Data for...

[Page 42](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item Temp. C to judge the Temp Error at 1 Temp C Warning (Eco) 30-100 Eco (Lamp) Temp. B-A to judge the Temp Error at 13 Temp B-A Warning (Eco) 0-100 Normal (Clogging Det.) Temp.

[Page 43](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item Cooling Time stting at Fan Mode L (x 9 Cooling Time L 30 sec) 1-15 1: 30, 3: 90, 15: 450 sec. Cooling Time setting at Temp Erro (x 10 Temp Error Cooling Time 1-15 30 sec) OnStart Cooling Start Thresh-...

[Page 44](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item Group Auto calibration (Ycbr) Y - Offset Acquiring Area H-Start 0 Y-OFFSET AREA H START 0 - 1000 Position Y - Offset Acquiring Area V-Start 1 Y-OFFSET AREA V START 0 - 1000 Position CB - OFFSET AREA H...

[Page 45](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item Group ScArt(480i) 1 Disp Dots 0 ~ 4095 H Back Porch 0 ~ 4095 3 V Back Porch 0 ~ 4095 4 Disp Line 0 ~ 4095 Group ScArt (575i) 1 Disp Dots 0 ~ 4095 H Back Porch...

[Page 46](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item Group
Ybcr (1080i - 50) 0 Total Dots 0 ~ 4095 * Read only 1 Disp Dots 1870 0 ~ 4095 0 H Back
Porch 0 ~ 4095 3 V Back Porch 0 ~ 4095 4 Disp Line 105...

[Page 47](#) Electrical Adjustments Group/ Item Name Function Initial range Note Item 1 Disp
Dots 1870 0 ~ 4095 0 H Back Porch 0 ~ 4095 3 V Back Porch 0 ~ 4095 4 Disp Line 1050 ~
4095 5 Clamp 0 ~ 055 6 Clamp Width 0 ~ 055...

[Page 48: Chassis Block Diagrams](#)

Chassis Block Diagrams Chassis over view PW_TXD/PW_RXD 124,368 IRRCVR1 IRRCVR0
331,164 IC5302 BUFFER IC5031 AUDIO OUTPIT IC5201 <LM4889> PC1/PC2-SW <AN5870>
IC5001 AUDIO CONTROL <NJW1156> IC4001 BUFFER AUDIO -48-...

[Page 49: System Control](#)

Chassis Block Diagrams System control IC891 INVERTER <MH74LVC> IC301 IC1802 SCALER
<PW190> I/O EXPANDER -49-...

[Page 50: Lamp Control](#)

Chassis Block Diagrams Lamp control -50-...

[Page 51: Audio Circuit](#)

Chassis Block Diagrams Audio circuit -51-...

[Page 52: Power Supply & Protection Circuit](#)

Chassis Block Diagrams Power supply & protection circuit IC651 POWER OSC. <STR-Z2156>
IC601 P.F.CONTROL <FA5502> BLAST_AC FAN_ERR IC301 SCALER <PW190> -52-...

[Page 53: Fan Control Circuit](#)

Chassis Block Diagrams Fan control circuit TPFANA Q7812 FN903 S15.5V FAN_A D3621 D3613
Q7811 FN904 IC7811 D3622 Q7813 FN905 D3623 TPFANB Q7862 FN901 FAN_B D3626 FN902
D3614 Q7861 IC7861 D3627 Q7864 Q3601 P_FAIL P_FAIL P_Fail: H Power Error: On FAN_ERR
TPFANC Q7842 FN907...

[Page 54: Alarm Circuit](#)

Chassis Block Diagrams Alarm circuit RECHARGABLE BATTERY -54-...

[Page 55: Iic Bus Control Circuit](#)

Chassis Block Diagrams IIC bus control circuit DVI-I DSub15 -55-...

[Page 56: Network \(Mci\) Circuit](#)

Chassis Block Diagrams Network (MCI) circuit -56-...

[Page 57: Troubleshooting](#)

Troubleshooting Indicators and Projector Condition Check the indicators for projector condition.
Indicators LAMP Projector condition PoWer WArNING rePLAce red/green yellow The projector is
off. (The AC power cord is unplugged.) The projector is preparing for stand-by or the projection
lamp is being cooled down.

[Page 58: 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 59: 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 TP_B1,
TP_G1, TP_R1. Check power supply circuit 15.5V and peripheral circuit. Check ICs IC501, IC531,

IC561, IC501, IC531, IC561, IC401, IC301 and peripheral circuits.

[Page 60: No Sound](#)

Troubleshooting No Sound Check following steps. check if the audio signal is observed at pins 7 Check 5V_AUDIO, 1.2V power supply. and 15 of IC5001. check if the audio signal is observed at pins 5 Check the Mute signal at pin 1 of IC5031.

[Page 61: Control Port Functions](#)

Control Port Functions Scaler I/O Port Functions (PW190) Port SIGNAL Port NAME Function Description PORTD7 DDC_SW3 DDC_SW3 DDC_SW3 VS_MCI V-Sync for MCI VS_MCI V-Sync. Input for MCI PORTC5 ON_3.3V 3.3V Power Drive, Power On: H PORTD6 DDC_SW1 DDC_SW1 HS_MCI HS_MCI H-Sync.

[Page 62](#) Control Port Functions Port SIGNAL Port NAME Function Description CR_IN CR_IN Component Video (CR) Input SCART_CV SCART_CV Composite Video Signal Input for SCART S-Y Signal Input Y_IN Y_IN Component Video (Y) Input SMUXIN1 SOG MUX input Ch1 Sync on Green Signal Input SMUXIN0 SOG MUX input Ch0 Y_IN...

[Page 63: I/O Expander Port Functions \(Te7783\)](#)

Control Port Functions I/O Expander Port Functions (TE7783) PIN No. NAME Function Description I/O_TXD0 For Alarm I/O_AN3 For Alarm I/O_ALARM_OUT For Alarm LEDN_W_R/C_SW L: Wired R/C WAKEUP WAKEUP_RESET X_TAL IN X_TAL_OUT XSTDBYEN XSTDBYE MCI_ON H: MCI ON POWER_ON_MCI H: MCI ON INH from Battery Charging Circuit...

[Page 64: Waveform](#)

Waveform Video signal <Vid> HSYNC signal VSYNC signal HSYNC signal <tPdHS> VSYNC signal <tPdVS> r-S&H signal <tP_r1> G-S&H signal <tP_G1> B-S&H signal <tP_B1> -64-...

[Page 65: IC Block Diagrams](#)

IC Block Diagrams ● AN5870 <Signal Switch, IC5201> ● FA7701 <ddc control, IC5751> -65-...

[Page 66](#) IC Block Diagrams ● FA5502 <P.F. Control, IC601> ● FA7711 <DC-DC Converter, IC5801> -66-...

[Page 67](#) IC Block Diagrams ● HIN202EIB <RS-232C Driver, IC3801> ● L3E06150 <D/A, S/H-LCD Driver, IC501, IC531, IC561> -67-...

[Page 68](#) IC Block Diagrams ● L3E07111 <LCD Driver & Gamma Correction, IC401> ● L3E01060 <Level Shift, IC2501, IC2531, IC2561> -68-...

[Page 69](#) IC Block Diagrams ● LM4889 <Audio Output, IC5031> ● NJW1156 <Audio Control, IC5001> -69-...

[Page 70](#) IC Block Diagrams ● PW190 <Scaler, IC301> ● Str-Z2156 <Power oSc, IC651> -70-...

[Page 71](#) IC Block Diagrams ● TE7783 <Parallel I/O Expander, IC1802> -71-...

[Page 72: Electrical Parts List](#)

KB3-WXU3000 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 73: Electrical Parts Location](#)

KB3-WXU3000 Electrical Parts List Electrical Parts Location ● Assembled Boards A4800 A2300 Temp Board Module Board A2000 A2400 AV Board Network Board A2900 A630 R/C Board Line Filter Board A2200 Antenna Board A2100 A690 Buzzer Board Lamp Cover SW Board A1000 Main Board A901...

[Page 74: Electrical Parts List](#)

KB3-WXU3000 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 305 163 1615 TR 2SC2812N-L6-TB0 305 173 9816 TR 2SC3928A1R ASSEMBLED BORADS 305 173 9915 TR 2SC3928A1S Q2001 305 014 4512 TR 2SC2412K T146 R 305 014 4611...

[Page 75](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description 305 014 4611 TR 2SC2412K T146 S 305 173 9816 TR 2SC3928A1R 305 015 8727 TR 2SC2812-L6-TB 305 173 9915 TR 2SC3928A1S 305 015 8925 TR 2SC2812-L7-TB Q5301 305 014 4512 TR 2SC2412K T146 R...

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[Page 77](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description 405 220 3016 TR ISA1235AC1F 303 409 3426 CERAMIC 0.1U K Q8757 305 191 5814 TR 3LN01C-TB-E C1051 303 453 8917 CERAMIC 0.1U K Q8758 305 191 5814 TR 3LN01C-TB-E 303 453 8610 CERAMIC...

[Page 78](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description 303 453 8610 CERAMIC 0.1U K 303 453 8610 CERAMIC 0.1U K 303 409 3426 CERAMIC 0.1U K 303 409 3426 CERAMIC 0.1U K C1824 303 453 8917 CERAMIC 0.1U K C2512...

[Page 79](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description 303 453 8610 CERAMIC 0.1U K 303 409 3426 CERAMIC 0.1U K 303 409 3426 CERAMIC 0.1U K C331 303 453 8917 CERAMIC 0.1U K C303 303 453 8917 CERAMIC 0.1U K...

[Page 80](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description C3561 303 396 9613 CERAMIC 1U K C381 303 454 0415 CERAMIC 0.068U K 303 397 7618 CERAMIC 1U K 303 442 0519 CERAMIC 0.068U K C3562 303 396 9613 CERAMIC...

[Page 81](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description 303 453 8610 CERAMIC 0.1U K 303 397 7618 CERAMIC 1U K 303 409 3426 CERAMIC 0.1U K C5003 303 396 9613 CERAMIC 1U K C413 303 453 8719 CERAMIC 470P K...

[Page 82](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description C5087 303 381 5613 ELECT 220U M C5233 303 454 0613 CERAMIC 0.01U K 303 423 8916 ELECT 220U M 303 441 9810 CERAMIC 0.01U K C509 403 461 3710 CERAMIC...

[Page 83](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description 303 454 0514 CERAMIC 0.1U Z 303 175 7212 ELECT 10U M C538 403 461 3710 CERAMIC 0.1U Z C565 303 396 9613 CERAMIC 1U K 303 454 0514 CERAMIC 0.1U Z...

[Page 84](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description C5804 303 454 1917 CERAMIC 4700P K C7847 303 453 8917 CERAMIC 0.1U K 303 379 7315 CERAMIC 4700P K 303 453 8610 CERAMIC 0.1U K C5805 403 455 1616 CERAMIC...

[Page 85](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description RESISTOR C8028 303 453 6319 CERAMIC 100P J R1000 301 238 4512 MT-GLAZE 47 JA 1/3W 303 454 0910 CERAMIC 100P J R1011 301 225 8110 MT-GLAZE 10 JA 1/16W 303 294 6110...

[Page 86](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description R1906 303 376 6212 CERAMIC 0.22U K R2509 301 226 1516 MT-GLAZE 0.000 ZA 1/16W R1907 301 224 9316 MT-GLAZE 1K JA 1/16W R2510 301 226 1516 MT-GLAZE 0.000 ZA 1/16W R1908...

[Page 87](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description R3532 301 225 1418 MT-GLAZE 47K JA 1/16W R4862 301 037 5215 MT-GLAZE 100 JA 1/10W R3533 301 224 8913 MT-GLAZE 100K JA 1/16W R4863 301 224 8814 MT-GLAZE 100 JA

1/16W R354...

[Page 88](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description R5238 301 226 1516 MT-GLAZE 0.000 ZA 1/16W R580 301 226 1516 MT-GLAZE 0.000 ZA 1/16W R5239 301 226 1516 MT-GLAZE 0.000 ZA 1/16W R5801 301 294 3511 MT-GLAZE 27K FA 1/16W R5240...

[Page 89](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description R6867 301 225 1616 MT-GLAZE 390 JA 1/16W R8122 301 226 1516 MT-GLAZE 0.000 ZA 1/16W R6868 301 225 1616 MT-GLAZE 390 JA 1/16W R8123 301 225 0213 MT-GLAZE 3.3K JA 1/16W R6869...

[Page 90](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description R9621 301 224 9415 MT-GLAZE 1M JA 1/16W RB434 945 037 0831 R-NETWORK 47X4 1/16W R9622 301 225 1210 MT-GLAZE 4.7K JA 1/16W RB436 945 037 0831 R-NETWORK 47X4 1/16W R9624 301 226 1516...

[Page 91](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description L3622 945 086 5368 IMPEDANCE,220 OHM P D1041 307 223 1115 ZENER DIODE 02DZ6.2Y(TPH3 L3624 945 086 5368 IMPEDANCE,220 OHM P 307 209 1214 ZD UDZS-TE-176.2B L3626 945 086 5368 IMPEDANCE,220 OHM P...

[Page 92](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description D5622 307 163 0414 DIODE 1SS352-(TPH3) FB609 945 041 1978 INDUCTOR,330 OHM 307 149 0810 DIODE 1SS355-TE-17 FB8801 945 086 6037 IMPEDANCE,330 OHM P 408 062 7201 DIODE 1SS35 K10A 945 076 2698...

[Page 93](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description 303 453 9211 CERAMIC 470P K IC8451 410 650 3403 IC K4M283233H-HN75 303 282 5118 CERAMIC 470P K 410 650 3205 IC IS42S32400D-6BL C2903 303 384 4712 TA-SOLID 47U M 6.3V...

[Page 94](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description 303 409 3426 CERAMIC 0.1U K C8557 303 453 8917 CERAMIC 0.1U K C8314 303 453 8917 CERAMIC 0.1U K 303 453 8610 CERAMIC 0.1U K 303 453 8610 CERAMIC 0.1U K...

[Page 95](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description 303 453 8610 CERAMIC 0.1U K 303 409 3426 CERAMIC 0.1U K 303 409 3426 CERAMIC 0.1U K C8654 303 453 8917 CERAMIC 0.1U K C8627 303 453 8917 CERAMIC 0.1U K...

[Page 96](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description C8689 303 453 8917 CERAMIC 0.1U K 303 441 9810 CERAMIC 0.01U K 303 453 8610 CERAMIC 0.1U K C8807 303 454 0613 CERAMIC 0.01U K 303 409 3426 CERAMIC 0.1U K...

[Page 97](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description C8939 303 358 3215 CERAMIC 10U K 6.3V R8303 301 224 9019 MT-GLAZE 10K JA 1/16W 303 368 7319 CERAMIC 10U K 6.3V R8304 301 224 9019 MT-GLAZE 10K JA 1/16W 303 370 7611...

[Page 98](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description R8617 301 226 1516 MT-GLAZE 0.000 ZA 1/16W R8713 301 224 9712 MT-GLAZE 22 JA 1/16W R8618 301 224 9019 MT-GLAZE 10K JA 1/16W R8716 301 224 9712 MT-GLAZE 22 JA 1/16W R8619...

[Page 99](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description 307 149 0810 DIODE 1SS355-TE-17 RB8316 945 037 0824 R-NETWORK 22X4 1/16W 408 062 7201 DIODE 1SS35 RB8317 945 037 0824 R-NETWORK 22X4 1/16W D8903 307 163 0414 DIODE 1SS352-(TPH3) RB8318 945 037 0824...

[Page 100](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description 655 001 9608 ASSY,PWB,ANTENNA KB3AC C608 303 222 1326 CERAMIC 1000P K C609 303 222 1326 CERAMIC 1000P K CAPACITOR C611 303 371 8518 MT-POLYEST 1U K 400V 303 427 2019 MT-POLYEST...

[Page 101](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description R621 301 255 8715 MT-GLAZE 22 JA 1/10W 307 149 6327 DIODE SFPB-54V R622 301 264 9918 MT-GLAZE 36K FA 1/10W D604 307 225 4401 DIODE FMX-G265 R624 301 162 2714 MT-GLAZE...

[Page 102](#) KB3-WXU3000 Electrical Parts List Key No. Part No. description Key No. Part No. description SC8754 945 076 3503 SURGE-ABSORBER MISCELLANEOUS SW8751 910 011 4433 SWITCH,PUSH !F601 323 025 1204 FUSE 250V SW8752 910 011 4433 SWITCH,PUSH SW8753 910 011 4433 SWITCH,PUSH 655 001 9646 ASSY,PWB,AV KB3AC SW8754...

[Page 103: Mechanical Parts List](#)

KB3-WXU3000 Mechanical Parts List Cabinet Parts Location -103-...

[Page 104: Optical Parts Location](#)

KB3-WXU3000 Mechanical Parts List Optical Parts Location Integrator Lens-In (Integrator-In) Relay Lens-Out (Relay-out) -104-...

[Page 105](#) KB3-WXU3000 Mechanical Parts List Polarized Glass-In (Polarized-in-R) (Polarized-in-G) (Polarized-in-B) Projection Lens (Projection) -105-...

[Page 106](#) KB3-WXU3000 Mechanical Parts List Prism/LCD Panel Assy (Green) L02-4 L02-2 (red) L02-5 L02-1 L02-3 (Blue) (Prism/LCD panel Ass'y) -106-...

[Page 107](#) KB3-WXU3000 Mechanical Parts List In the Optical Unit -107-...

[Page 108: Mechanical Parts List](#)

DEC LEG-PT5EC 910 302 5613 DEC SHEET-M4JA 610 333 9290 FILTER BASE-KM6AC 610 337 2983 GRILLE-KB3AC 945 047 8031 BADGE,SANYO CHASSIS PARTS 610 337 3317 DEC AV SHEET-KB3AC 610 334 4348 HOLDER POWER PWB BTM-KM6AC 610 334 5895 HOLDER T SW-KM6AC...

[Page 109](#) KB3-WXU3000 Mechanical Parts List -109-...

[Page 110](#) SANYO electric co., Ltd. (KB3AC) MAR □008 DC 300 Printed in Japan...

[Page 111: Diagrams & Drawings](#)

Diagrams & Drawings Schematic Diagrams Printed Wiring Board Drawings Model Chassis No. PLC-WXU30 KB3-WXU3000 These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. KB3-WXU3000, model PLC- WXU30. File with the service manual No. SM5110918-00.

[Page 112: Parts Description And Reading In Schematic Diagram](#)

KB3-WXU3000 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/□ D J 10K B the parts description by the following code table. □.

[Page 113](#) KB3-WXU3000 Pin description of diode, transistor and IC ● diode ● transistor/Fet ● Ic...

[Page 114: 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 115](#) PROJECTION LENS Schematic Diagrams K8941 J10RL300G NETWORK POWER LAMP LP900 BALLAST SW902 PTH651 POWE FACTOR CORECTION PTH652 S10B5540N DHXAVB026G C650 R650 K6AC (THERMOSTAT_SW) 1/10GJ (T601, Q601, Q602, D604, IC601) 25KK J10EM024N 0.1GQ 9.1KC A901 Q652 K6AC_1A K6AC_1B METAL D654 Q651 R647 FB601 HALIDE LAMP...

[Page 116](#) TO PW D8161 RB521S-30G RB221 R1EB3304G ;R1JA3304G D8163 02DZ6.2YG GB[0] 5VDVI 5VDDC GB[1] D8162 RB521S-30G GB[2] C8161 GB[3] 6.3KK10MB K10A_8 DVI_V ;6.3KK10BA RB222 K10A_28 DVI_H R1EB3304G L8001 ;R1JA3304G L3BE221PG DVI-HDCP L8003 GB[4] K10A_25 L3BE221PG DVI_R C8007 GB[5] K10A_26 MEMORY DVI_G 16EM101V GB[6] C8015...

[Page 117](#) S3.3VPW 16KK0.1MN R357 R358 ;16KK0.1AYH SDATA_PW S3.3VPW TO GAMMA,S/H R1351 R1352 1/16GJ10KA 1/16GJ10KA SCS_PW R1354 R1353 1/16GJ3.3KA 1/16GJ3.3KA SCL2_5V TO HDCP-ANALOG DDC SDA2_5V C1351 16KK0.1MN ;16KK0.1AYH ;16KK0.1AXH DCLK DB[0-9] DG[0-9] DR[0-9] GR[0-7] GG[0-7] GB[0-7] CK_MCI HS_MCI VS_MCI R318 1/16GZ0A S3.3VPW R314 1/16GZ0A DDC_SW1...

[Page 118](#) power for NETWORK IC9883 TC7SZ125FUK R5752 Q5715 1/16GJ10KA R410 R5755 RSQ025P03G C5759 1/16GZ0A 1/10GJ1MC R426 Q5752 25EM1001X 1/16GJ10KA TO IC561 (S&H) IC5751 C5757 J11CY300G FA7701VG 16KK0.1MN C5799 R5756 L5702 R427 KK8200MN S3.3V_MCI POWER_ON_MCI C5754 ;16KK0.1AYH Q5753 1/16GF10KA L2PK330MG ;16KK0.1AXH 1/16GZ0A ;KK8200AYH R5751 16KK0.1MN...

[Page 119](#) FRPR FROM IC401 SHCLKR XFRR IC501 3.3V R591 PQ20WZ11P FROM IC301 DIRXR C585 R592 R593 C586 1/16GZ0A P_FAIL C5704 D5704 D5703 L561 C5705 1SS355 1SS355 L3530 L26B3470G 25KZ0.1AY L26B3470G 25EM471X :1SS352G :1SS352G 3.3V S15.5V :25KZ0.1AX 15V_PNL NT15.5V 15V_PNL TP-R1 R5701 C579 1/16GF10KA C5710...

[Page 120](#) Q6846 S5V_LED R6863 D6831 LAMP REPLACE(Y) 1/16GJ D6832 TEMP WARNING(R) 1.5KA D6833 STAND-BY (RED ON) R6864 LAMP ON (GREEN ON) 1/16GJ D6834 MCI 4.7KA S1.8VPW R6865 Q6847 1/16GJ R6866 1/16GJ 4.7KA J10EG J10EG J10EG J10EG J10EG J10EG 037G 035G 036G 036G 037G 035G...

[Page 121](#) S16V S16V R598 1/16GJ10KA Q591 R599 1/16GJ10KA IC9883 POWER_ON_MCI Q592 TC7SZ125FUK IC5601 R5604 C5605 1/16GJ1MA 25EM1001X R410 Q5601 1/16GZ0A R426 IC561(S&H) FA7701VG J11CY300G RSQ025P03G 1/16GJ10KA R5601 L5601 S3.3V_MCI C5608 1/16GJ10KA L2PK330MG L5704 KK8200MN C5603 L26B2770G R427 K8V_1 1/16GZ0A 16KK0.1MN C5601 RESET R G B COMMON 16KK0.1MN...

[Page 122](#) A[1-22] D[0-15] D[0-15] A[17] 3.3V_CPU A[16] R8506 1/16GZ0A A[15] BYTE# A[14] A[13] DQ15/A-1 D[15] 3.3V_CPU A[12] D[7] 3.3V_CPU A[11] D[14] DQ14 A[10] D[6] R8503 R8504 RB8322 1/16GJ A[9] D[13] 1/16GJ DQ13 R1JA1034G 10KA 10KA A[20] D[5] A[21] D[12] DQ12 D[4] RESET# nCPURESETOUT A[22]...

[Page 123](#) FPGA(FPGA I/F_2&SDRAM)_n XSDA1_[0-13] 3.3V_FPGA XSDA1_[0-13] IC8451 3.3V_FPGA XSDDQM1_[0-3] K4M18122H-HN75; XSDDQM1_[0-3] X8702 IS42S32400D-6BL V10B7650G C8732 XSDDATA1_[0-31] XSDDATA1_[0-31] 16KK0.1MN RB8701 RB8707 SDDA_CLK 3.3V_FPGA R1JA2204G R1JA2204G 3.3V_FPGA XSDDATA1_[24] XSDDATA1_[20] Q8601 XSDDATA1_[25] XSDDATA1_[21] R8622 XSDDATA1_[26] 1/16GJ2.2KA XSDDATA1_[22] XSDDATA1_[27] XSDDATA1_[23] R8623 1/16GJ 330A RB8702 RB8708 R1JA2204G R1JA2204G XSDDATA1_[28]...

[Page 124: Wireless Lan](#)

Wireless LAN Q9501 R9502 1/16GJ47KA L9501 L26B R9501 3470G 1/16GZ0A MPZ2012S331AT C9501 6.3TM47JR R9504 CFRESET FD[0-15] FD[8] CA[0-10] FD[14] FD[9] ZCCE1 G N D A[10] A [10] D[8] D [8] FD[0] CA[4] FD[7] CA[2] CE1n C E1n D[9] D [9] D[7]...

[Page 125](#) Printed Wiring Board Diagrams ! cAutIoN LINE FILter (Side:A) LINE FILter (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 126](#) MAIN (Side:A) BUZZER "K□100" TEMP. "K48E" R9643 R9644 B10W0070A FB3623 R9646 R9653 C9643 R9654 IC9882 D9641 A SIDE(1st Reflow) L3633 R5622 C9647 D9601 R8772 A30C5 L3634 C9604 FN905 IC9641 IC9603 R4836 D8751 C4808 C5619 TWAR_LED R5626 TP8106 TREP_LED Q8751 R8761 R8757 TP8107 R8762...

[Page 127](#) MAIN (Side:B) POWER LAMP BALLAST "K6R" UNIT R9622 R9621 Q8753 R8773 R9626 R9624 L4801 R4803 D8704 R4802 D3624 A30C5 C5842 D8703 C5617 L5841 C9644

C5618 PB11 FB609 R9656 R9651 R8752 C8707 FB3624 C8705 Q9644 IC5801 C2892 C5602
R5812 R/CS D8708 D8700 Q5841 L2892...

[Page 128](#) PoWer (Slide:A) PoWer (Slide:B) C611 C685 C681 C683 R684 C683 C691 C611 C685
L616 L611 1AA4B10C5890A_X L614 T601 R679 D681 D682 B SIDE D682 D681 FB601 L603 L603
FB601 MAIN A30C5 "K8R" PC602 R648 R650 Q602 Q601 D604 D604 Q601 Q602 D654 R674...

[Page 129](#) BuZZer (Slide:A) BuZZr (Slide:B) 1AA4B10C5900B A SIDE IC2100 IC2100 MAIN
R8731 "K8B" R2100 R2101 B SIDE A30C5 A30C5 K2110 LAMP coVer SW (Slide:B) LAMP coVer
SW (Slide:A) MAIN "K8S" SW901 SW901 ModuLe (Slide:B) ModuLe (Slide:A) K9502 C9504 R9506
IC9501 Q9501 NETWORK "K9301" ...

[Page 130](#) PCB_KB3AC...