



Toshiba 27WL55A Schematic Diagram

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SCHEMATIC DIAGRAM

MODEL : 27WL55A / 27WL55E / 27WL55R / 27WL55T

WARNING : BEFORE SERVICING THIS CHASSIS, READ THE "SERVICE SAFETY PRECAUTIONS" ON PAGE 3 OF

THIS MANUAL.

CAUTION : The international hazard symbols " " in the schematic diagram and the parts list designate components

which have special characteristics important for safety and should be replaced only with types identical to those in the

original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals.

Before

replacing any of these components, read carefully the SERVICE SAFETY PRECAUTIONS on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

NOTE:

1. RESISTOR

Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.

1/2R = Metal or Metal oxide of 1/2 watt

1RF = Fuse resistor of 1 watt

K = $\pm 10\%$

2. CAPACITOR

Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in F, and the values more than 1 in pF.

All capacitors are ceramic 50V, unless otherwise noted as the following marks.

3. The parts indicated with "

4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all

controls at normal. line voltage 220 volts.

5. Waveforms are taken receiving color bar signal with enough sensitivity.

6. Voltage reading shown are nominal values and may vary $\pm 20\%$ except H.V.

All manuals and user guides at all-guides.com

G = $\pm 2\%$



F = $\pm 1\%$

Electolytic capacitor

" have special characteristics, and should be replaced with identical parts only.

1/2S = Carbon compstion of 1/2 watt

10W = Cement of 10 watt

Mylar capacitor

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Summary of Contents for Toshiba 27WL55A

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[Page 2](#) All manuals and user guides at all-guides.com SCHEMATIC DIAGRAM STRUCTURE:
CONNECTOR1/49 AV JACK2/49 TIF

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[Page 6](#) SCL1 1-B5,10-B1 LV42 OPEN 1-B2,2-A1,3-C2,8-E1 SDA1 L110 CV42 KETSU OPEN (23103272Q) GV01 CB41 RM73B1HR00OD OPEN RV60 CV39 16V100 1-B6,2-A1,9-A1 V_TV1 2-B1 GV02 SCL1 OPEN 1-A6 RV43 SDA1 CC04 OPEN QV06 2SA1576A RV44 C104 OPEN AFT1 AFT1 1-C2 50V4.7 27WL55A/E/R/T (3/49)

[Page 7](#) KDS160-RTK/P Q673 OPEN R685 R686 C690 C676 2SA1162-Y KETSU 50V100u A_MUTE GR661 A_MUTE VCC_AUDIO 1-D8,5-A1,5-A2 VCC_AUDIO R684 C677 100k OPEN C685 B50V0.01 C6990 7L50V0.47 R683 1-D8 R6602 Q662 RN2404(TE85L,F) R6601 EXT_MUTE Q663 EXT_MUTE 1-B7 2SC4081-Q R6603 100k 27WL55A/E/R/T AUDIO_OUT (4/49)

[Page 8](#) POWER_SW 1-D7 2SC2412K KETSU VCC_AUDIO RE87 DE95 RE85 RE90 1-D8,4-B1,5-A1 KETSU KETSU KETSU DE91 KETSU QE94A HEAT SINK QE94 ZE94 2SD2396/2SC3852 125V 2A QE94B VCC_AUDIO 26.5V_AUDIO 4-A2 1-D8,4-B1,5-A2 DE99 RE94 1SS355-TE17 DE97 1/8W270 MTZJ13C DE98 MTZJ13C GND_AUDIO 27WL55A/E/R/T REGULATOR (5/49)

[Page 9](#) All manuals and user guides at all-guides.com PJ42A PLUG_2mm_6P_L\S6B-PH-K-S DA06 RA74 RA71 RA72 RA73 UZSTE176.8B CHIP JP RA77 RA78 CHIP JP RA79 CHIP JP 27WL55A/E/R/T (6/49)

[Page 10](#) OPEN R501 GJ16 R511 6.8k SHORT OPEN PV90 KRD-8622 GR34 PC-DSUB GR35 SHORT SHORT DR01 OPEN RR01 RR04 1/8W75 RR02 RR05 DR02 1/8W75 OPEN DR03 OPEN RR03 RR06 1/8W75 P902A B5B-PH-K-S DR04 DR05 OPEN OPEN P900A B9B-PH-K-S 27WL55A/E/R/T PC-IN_BOARD (7/49)

[Page 11](#) To SPK CABLE SPK-R PJ41A PLUG_2mm_11P\B11B-PH-K-S QB04 2SC2712Y CB01 ON TIMER CB38 P601 7L10V220u 25V0.1 (GREEN) PLUG_2.5mm_4P\B4B-EH-F1A DB04 SCL-003MC3FXHJK RB24 CHIP_JP RB22 OPEN RB09 GP1UE281RK0F DB23 1SS355-TE17 RB08 Vout DB22 1SS355-TE17 CB03 CB02 DB20 25V0.1 7L10V220u UDZS TE-17 5.6B 27WL55A/E/R/T LED_RMT_HP (8/49)

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[Page 13](#) TLN3481GH 35V56uF BL_VCC P812B PLUG_3.96mm_5P\B5P-VH BL_VCC STARTUP_SUB 3-D2 STARTUP_SUB BL_VCC STARTUP_SUB RECTIFIED(-)_SUB 3-D2 RECTIFIED(-)_SUB BL_VCC RECTIFIED(-)\SUB VCC_LCD 2-D8 VCC_LCD BL_VCC RECTIFIED(+)_SUB 3-D2 RECTIFIED(+)_SUB BL_GND RECTIFIED(+)\SUB BL_GND BL_GND BL_GND BL_GND P805 B10B-PH-K-S PJ62A P813B P803A OPEN PLUG_2mm_12P\B12B-PH-K-S B4B-PH-K-S 27WL55A/E/R/T CONNECTOR(POWER_BOARD) (10/49)

[Page 14](#) CE55 RE82 TLP421F(GR)/PS2581L1(D) 35V56uF R873 POWER_LCD 1-A1 RE59 1/6P1.5k 330k C813 63V0.33 QE64 Q883 BD4746G SE024N AC_DETECT 1-A1,1-B2 RE58 R816 RE61 22k_F 18k_F R874 RE56 RE60 SHORT 1.5k_F LIVE AREA C890 RE57 63V0.33 1.5k_F R890 CE53 B25V220n_K 27WL55A/E/R/T MAIN_POWER(POWER_BOARD) (11/49)

[Page 15](#) 2.2k OPEN 50V0.1 RE42 RE45 OPEN RE41 1.5k RE43 RE44 10k_F QE83 CE24 NJM431L QE53 POWER_DB 1-A2 50V0.1u RN1403 RE12 RE46 1/2R220 1.8k_F DE06 FR105-FL RE18 RE29 RK993DR22] OPEN CE21 OPEN CE16 35V56uF CE11 OPEN LIVE AREA 27WL55A/E/R/T SUB_POWER(POWER_BOARD) (12/49)

[Page 16](#) 2SC2412K R859 R857 T801Z C852 B1000p R858 C851 10V1u T801 TRF3253AH R801 VR37 225J R899 RN14A1A825J D899 TNR15G471K P805B C801 AC275V0.22u NEUTRAL LINE F801A FUSE HOLDER F801B FUSE HOLDER F801 T6.3A L/250V P800 LIVE AREA

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[Page 29](#) All manuals and user guides at all-guides.com Note: For POWER_DB_O (L: ON) line When power is ON, GATE is closed until turn ON DB. During POD STBY mode, it keeping ON, but shut-off circuit includes into DB. 27WL55A/E/R/T SIGNAL MICRO I/O (26/49)

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[Page 34](#) All manuals and user guides at all-guides.com Note: For I2C Bus lines (SDA_STBY, SCL_STBY) : Normally, connecting to Cortez, When POD STBY mode, these are connected to DB. 27WL55A/E/R/T SIGNAL STD-BY MICRO (31/49)

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SW1: H at 8V Line (Normally) ; Connect to Cortez SW2: L at 8V Line (POD STBY state) ; Connect
to DB side 27WL55A/E/R/T SIGNAL I2C Switch (37/49)

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