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SERVICE MANUAL

modelType

modelName modelVer

TOSHIBA WEB-ZEUS

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GREEN PRODUCT PROCUREMENT

The EC is actively promoting the WEEE & RoHS Directives that define standards for recycling and reuse of Waste Electrical and Electronic Equipment and for the Restriction of the use of certain Hazardous Substances. From July 1, 2006, the RoHS Directive will prohibit any marketing of new products containing the restricted substances.

Increasing attention is given to issues related to the global environmental. Toshiba Corporation recognizes environmental protection as a key management tasks, and is doing its utmost to enhance and improve the quality and scope of its environmental activities. In line with this, Toshiba proactively promotes Green Procurement, and seeks to purchase and use products, parts and materials that have low environmental impacts.

Green procurement of parts is not only confined to manufacture. The same green parts used in manufacture must also be used as replacement parts.

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LEAD-FREE SOLDER

This product is manufactured using lead-free solder as a part of a movement within the consumer products industry at large to be environmentally responsible. Lead-free solder must be used in the servicing and repair of this product.

WARNING: This product is manufactured using lead free solder.
DO NOT USE LEAD BASED SOLDER TO REPAIR THIS PRODUCT!

The melting temperature of lead-free solder is higher than that of leaded solder by 86ºF to 104ºF (30ºC to 40ºC). Use of a soldering iron designed for lead-based solders to repair product made with lead-free solder may result in damage to the component and or PCB being soldered. Great care should be made to ensure high-quality soldering when servicing this product especially when soldering large components, through-hole pins, and on PCBs as the level of heat required to melt lead-free solder is high.

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SAFETY INSTRUCTION

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

Safety Precaution

WARNING: SERVICING SHOULD NOT BE ATTEMPTED BY ANYONE UNFAMILIAR WITH THE NECESSARY PRECAUTIONS ON THIS RECEIVER. THE FOLLOWING ARE THE NECESSARY PRECAUTIONS TO BE OBSERVED BEFORE SERVICING THIS CHASSIS.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.

2. Always disconnect the power plug before any disassembling of the product. It may result in electrical shock.

3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network, etc.

4. Always keep tools, components of the product, etc away from the children, These items may cause injury to children.

5. Depending on the model, use an isolation transformer or wear suitable gloves when servicing with the power on, and disconnect the power plug to avoid electrical shock when replacing parts. In some cases, alternating current is also impressed in the chassis, so electrical shock is possible if the chassis is contacted with the power on.

6. Always use the replacement parts specified for the particular model when making repairs. The parts used in products require special safety characteristics such as inflammability, voltage resistance, etc. therefore, use only replacement parts that have these same characteristics. Use only the specified parts when the ⚠ mark is indicated in the circuit diagram or parts list.

7. Parts mounting and routing dressing of wirings should be the same as that used originally. For safety purposes, insulating materials such as isolation tube or tape are sometimes used and printed circuit boards are sometimes mounted floating. Also make sure that wirings is routed and clamped to avoid parts that generate heat and which use high voltage. Always follow the manufactured wiring routes / dressings.

8. Always ensure that all internal wirings are in accordance before re-assembling the external casing after a repairing completed. Do not allow internal wiring to be pinched by cabinets, panels, etc. Any error in reassembly or wiring can result in electrical leakage, flame, etc., and may be hazardous.

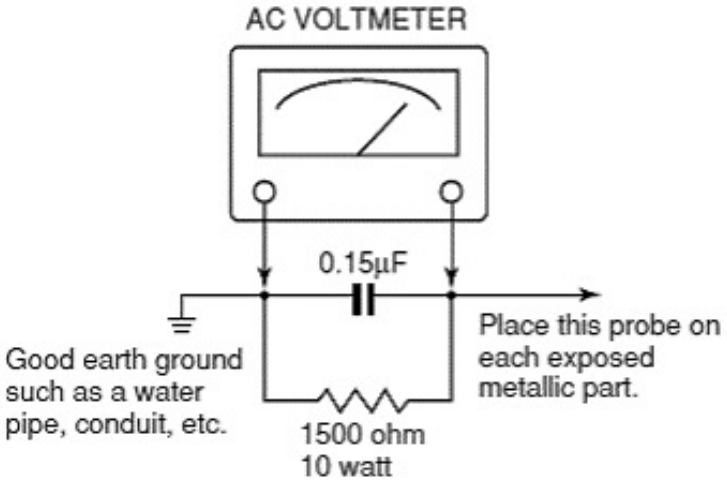
9. NEVER remodel the product in any way. Remodeling can result in improper operation, malfunction, or electrical leakage and flame, which may be hazardous.

10. Always perform an AC leakage current checking on the exposed metallic parts of the cabinet such as antennas, terminals, screw heads, metal overlays, control shafts and etc. to be sure that the set is safe to operate without any dangerous of electrical shocks before returning the set to the customer.

11. The leakage current checking. (After completing the work, measure the leakage current to prevent an electrical shock.)

- Plug the AC line cord directly into a 120V AC outlet. Do not use an isolation transformer for this check.
- Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner.

Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 µF, AC type capacitor, between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and 0.15 µF capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.3 volts rms. This corresponds to 0.2 milliamp. AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



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SAFETY INSTRUCTION

Product Safety Notice

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create electrical shock, fire, or other hazards.

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SAFETY INSTRUCTION

Handling the LCD Module

Safety Precaution

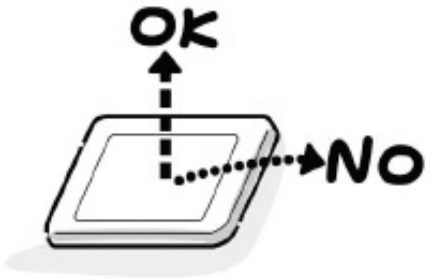
In the event that the screen is damaged or the liquid crystal (fluid) leaks, do not breathe in or drink this fluid.
Also, never touch this fluid. Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact the skin or clothing, wipe off with alcohol, etc., and rinse thoroughly with water. If the fluid should enter the eyes, immediately rinse the eyes thoroughly with running water.

Precautions for Handling the LCD Module

CAUTION: The metal edges of the LCD module are sharp, handle it with care.

The LCD module can easily be damaged during disassembly or reassembly; therefore, always observe the following precautions when handling the module.

1. When attaching the LCD module to the LCD cover, position it appropriately and fasten at the position where the display can be viewed most conveniently.



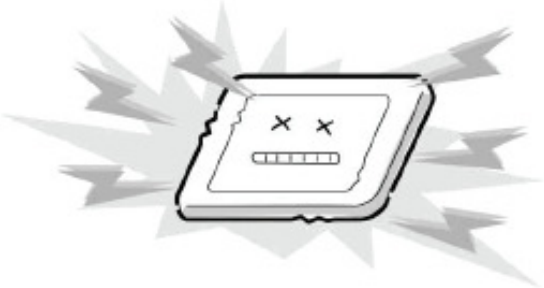
2. Carefully align the holes at all four corners of the LCD module with the corresponding holes in the LCD cover and fasten with screws. Do not strongly push on the module because any impact can adversely affect the performance. Also use caution when handling the polarized screen because it can easily be damaged.

3. If the panel surface becomes soiled, wipe with cotton or a soft cloth. If this does not remove the soiling, breathe on the surface and then wipe again.
   If the panel surface is extremely solied, use a CRT cleaner as a cleaner. Wipe off the panel surface by drop the cleaner on the cloth. Do not drop the cleaner on the panel. Pay attention not to scratch the panel surface.

4. Leaving water or other fluids on the panel screen for an extended period of time can result in discoloration or stripes. Immediately remove any type of fluid from the screen.

5. Glass is used in the panel, so do not drop or strike with hard objects. Such actions can damage the panel.

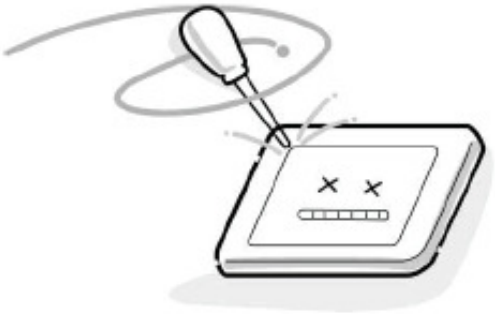
6. CMOS-LSI circuitry is used in the LCD module, so avoid damage due to static electricity. When handling the module, use a wrist ground or anchor ground.



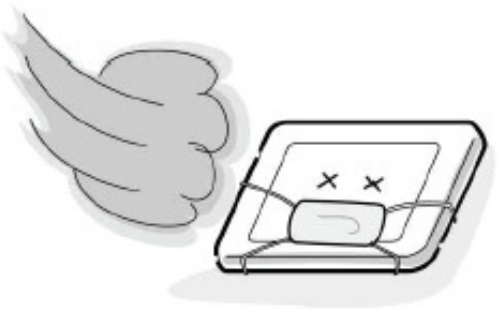
7. Do not expose the LCD module to direct sunlight or strong ultraviolet rays for an extended period of time.

8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.

9. Do not disassemble the LCD module. Such actions could result in improper operation.



10. When transporting the LCD module, do not use packing containing epoxy resin (amine) or silicon resin (alcohol or oxim). The gas generated by these materials can cause loss of polarity.



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INTERCONNECT

IR board

IR board	
1	LED-B
2	LED-G
3	GND
4	GND
5	IR_DATA
6	5V

Speaker

L Speaker	
1	SPK_OUTL+
2	SPK_OUTL-
R Speaker	
1	SPK_OUTR-
2	SPK_OUTR+

Main Board

CN5

IR board	
1	VCC5_0_STB
2	IRR
3	GND
4	LED_LOGO
5	LED_G

CN2

Speaker -4P	
1	SPK_OUTL+
2	SPK_OUTL-
3	SPK_OUTR-
4	SPK_OUTR+

CN3

LVDS -2x15P	
1	GND
2	LVDS_PWR
3	LVDS_D4E_P
4	LVDS_PWR
5	LVDS_D4E_N
6	LVDS_PWR
7	LVDS_D3E_P
8	LVDS_PWR
9	LVDS_D3E_N
10	GND
11	LVDS_D2E_P
12	GND
13	LVDS_D2E_N
14	GND
15	LVDS_D1E_P
16	GND
17	LVDS_D1E_N
18	GND
19	GND
20	GND
21	LVDS_CE_P
22	GND
23	LVDS_CE_N
24	DCR_VBR_B
25	GND
26	LVDS_SEL
27	LVDS_D0E_P
28	LVDS_D5E_P
29	LVDS_D0E_N
30	LVDS_D5E_N

Power board

CN8

Power supply -16P	
1	GND
2	GND
3	VCC24_0
4	VCC24_0
5	GND
6	GND
7	GND
8	VCC12_0
9	VCC12_0
10	VCC5_0_STB
11	VCC5_0_STB
12	VCC5_0_STB
13	POWER_EN
14	PG
15	BL_BR_CNTRL
16	BKLT_EN

Power supply -16P	
1	GND
2	GND
3	24Vaud
4	24Vaud
5	GND
6	GND
7	GND
8	12VCCIN
9	Panel power
10	5V_IN
11	5V_IN
12	5V_IN
13	POWER_EN
14	POWER GOOD
15	BL_BR_CNTRL
16	BKLT_EN

Inverter -14P	
1	+24Vinv
2	+24Vinv
3	+24Vinv
4	+24Vinv
5	+24Vinv
6	GND
7	GND
8	GND
9	GND
10	GND
11	ERR
12	On/Off
13	BRT
14	IC

AC In	
1	Line
2	NC
3	Line

Panel module

Inverter -14P	
1	VINV
2	VINV
3	VINV
4	VINV
5	VINV
6	GND
7	GND
8	GND
9	GND
10	GND
11	ErrDtct
12	Vion/off
13	Pdim
14	Pdim_sel

SAMSUNG-LTA320AP01	
PANEL-FI-E30S	
1	No Connection
2	No Connection
3	No Connection
4	GND
5	RxIN0-
6	RxIN0+
7	GND
8	RxIN1-
9	RxIN1+
10	GND
11	RxIN2-
12	RxIN2+
13	GND
14	RxCLK-
15	RxCLK+
16	GND
17	RxIN3-
18	RxIN3+
19	GND
20	NC
21	LVDS OPTION(Note2)
22	NC
23	GND
24	GND
25	NC
26	Vin
27	Vin
28	Vin
29	Vin
30	Vin

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TROUBLESHOOTING GUIDE

UNDER CONSTRUCTION

Note: Please check back in the future.

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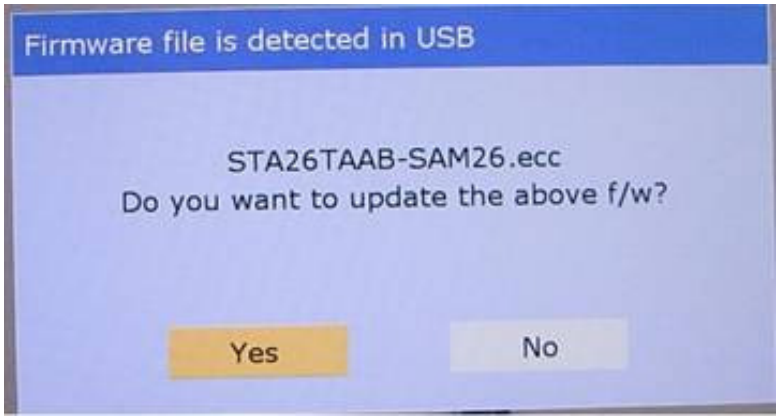
FIRMWARE UPDATING

How to update using a USB Mass-storage device

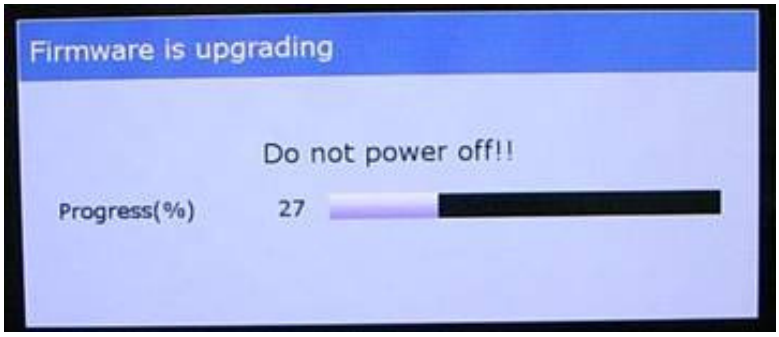
Preparation
Download a FW corresponding to the model and copy it to USB Flash memory.

1. Insert your USB storage device to the USB slot of the TV set while turning on.

2. The Display will show on OSD automatically. Then choose “Yes”.



3. It will proceed to update the firmware after push "ENTER" key of remote controller.
   Do not disconnect AC plug or turn off TV while updating.



4. Upon completion, The follwing "the success message" will be diplayed. Follow the instruction displayed to restart the TV.

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PARTS LIST

Precaution

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE".

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 "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE".

Do not degrade the safety of the receiver through improper servicing.

Note:

- The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.
- The PC board assembly with * mark is no longer available after the end of the production.

Abbreviations

Capacitors	CD	:	Ceramic Disk
Resistors	CF	:	Carbon film
	OMF	:	Oxide Metal Film
	PF	:	Plastic Film
	CC	:	Carbon Composition
	VR	:	Variable Resistor
	EL	:	Electrolytic
	MF	:	Metal Film
	FR	:	Fusible Resistor

All CD and PF capacitors are ±5 %, 50 V and all resistor, ±5 %, 1/6 W unless otherwise noted.

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PARTS LIST

Updating history

```
Please check back in the future.
Once service parts are amended, the latest information will be
shown.
```

	Location	Parts No.	Description
	E200	75016424	PC BOARD ASSY, IR/B, 39C05751L05
	E201	75016435	PC BOARD ASSY, MAIN/B, 39C05151L09
⚠	E250	75016403	POWER MODULE, FSP145-4F06 5/12/2, 39C05151L02
	E260	75014418	H-CON SET, STA32T MB CN5-IR5, 39C02R51L02
	E261	75014419	H-CON SET, STA32T MB CN2-SPK, 39C02R51L01
	E262	75014404	H-CON SET, STA26T INV-POW P803, 39C02P51L06
	E263	75014420	H-CON SET, STA32T MB-POW P802, 39C02R51L05
	E264	75014857	H-CON SET, STA32T MB-LVDS SAM, 39C02R51L10
	E300	75014414	LCD PANEL, LTA320AP01
⚠	E320	75014368	POWER CORD, SP12X1.5MNISPT SR1, 39C02K51L08
	E330	75012773	SPEAKER ASSY, 10W 6OHM, 39C02051L09
	E400	75010932	REMOCON HAND UNIT, CT-90302
	E410	75016425	OWNERS MANUAL, U-TB26T-A51 US E+F, 39C05751L01
	E411	75016437	INSTRUCTIONS, F-TB32T-A51 US E+F, 39C05151L10
	E412	75016408	CLEAN CLOTH, 39C05951L08
	E100	75014856	BEZEL ASSY, PC+ABS MBK99/GLOSSY(GP), 39C02R51L09
	E110	75014422	BACK COVER ASSY, TA3201 MBK97 HI-PS, 39C02R51L07
	E120	75016410	STAND ASSY, ABS 94HB MBK86/GLO, 39C05751L07
	E265	75014408	KEYPLATE, TA3221 MBK97 HI-PS, 39C02P51L09
	E413	75012791	SCRW, +2WASHER M5X0.8+25P-ZK(GP), 39C02151L06
	E500	75016436	CARTON BOX, C-TB32T-A51 US, 39C05251L02
	E510	75016411	EPS FOAM, (TOP-L) TB3211 GP, 39C05251L06
	E511	75016412	EPS FOAM, (TOP-R) TB3212 GP, 39C05251L07
	E512	75016413	EPS FOAM, (BTM-L) TB3213 GP, 39C05251L04
	E513	75016414	EPS FOAM, (BTM-R) TB3214 GP, 39C05251L05

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