

TOSHIBA 2140 TB

General Information

1994
Covers Models:
Toshiba 2140 RB
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Chassis: C4
CRT: A51KSV43X04
Remote Control:
23120324 (CT 9689)
Door Flap: 23425837
Main Power Button:
23443831

Matrix

Item	See Model
Other Service Adjustments	Toshiba 1722 TB

Specifications

Input Power Rating	73 W, AC240V, 50Hz
Aerial Input Impedence	75 ohm unbalanced type for UHF
Receiving Channels	
PAL-I Standard	UHF 21 - 69
Intermediate Frequencies:	
Picture IF	39.5 MHz
Sound IF	33.5 MHz
Colour Sub-Carrier	35.07 MHz
Picture Tube	90 degree deflection (51cm)
Sound Output	1.5W (at 10% harmonic distortion) x 1
Speakers	77mm round 1pc
Aux Terminals	Headphone Jack, 21 pin socket (FULL), A/V Input socket

Recommended Safety Parts

Item	Part No.	Description
C401	28428273	PF, 0.027 μ F, 200V
C440	24082346	PF, 6600pF, \pm 3%, 1500V
C444	24082333	PF, 2700pF, \pm 3%, 1500V
C463	24212222	CD, 2200pF, \pm 10%
C801	24082363	PF, 0.22 μ F, \pm 20%, AC250V
C802, C803	24094656	CD, 2200pF, \pm 20%, AC400V
F801	23144898	Fuse, 3.15A
F803	23144875	Fuse, 0.63A
IC835	23318299	IC, L78MR05
L462		DY, Supplied with V901
L901	23200205	Coil, Degaussing, TSB-2333AR
P801	23176934	Power Cord
Q404	23314375	Transistor, ON4409(508D)
Q826	A8643108	IC, Photo Coupler, TLP621(GR-LF)
R327	24339569	OMF, 5.6 ohm, 2W
R444	24338398	OMF, 0.39 ohm, 1W
R448	24338338	OMF, 0.33 ohm, 1W
R801	24009954	Metal-Glazed Resistor, 2.2M ohm, 1/2W
R844	24005007	Metal-Glazed Resistor, 8.2M ohm, 1W
R890	24000875	PTC, Thermistor, 18 ohm, \pm 20%, 290V
R920	24000568	FR, 4.7 ohm, 1W
S801	23145434	Switch, Power, 2C2P
T401	23224983	Transformer, Horiz. Drive, TLN1039
T461	23236464	Transformer, Flyback, TFB4123AR
T801	23211858	Line Filter, TRF3139
T803	23217240	Transformer, Converter, TPW3301AR
V901	23312572	Picture Tube, A51KSV43X04
V901A	23902067	Socket, CRT, 10P

Service Adjustments

Safety Instructions

X-Ray Radiation Precaution

1: The E.H.T. must be checked every time the receiver is serviced to ensure that the C.R.T. does not emit X-Ray radiation as result of excessive E.H.T. voltage. The nominal E.H.T. for this receiver is 27.8 kV at zero beam current (minimum brightness) operating at 240v a.c. The maximum E.H.T. voltage permissible in any operating circumstances must not exceed 29.0 kV. When checking the E.H.T. use the 'High Voltage Check' procedure in this manual using an accurate E.H.T. voltmeter.

2: The only source of X-Ray radiation in this receiver is the C.R.T. To prevent X-Ray radiation, the replacement C.R.T. must be identical to the original fitted as specified in the Parts List.

3: Some components used in this receiver have safety related characteristics preventing the C.R.T. from emitting X-Ray radiation.

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Combination Use of Parts (2140 TB)

Important:

In servicing, always keep the combination use of parts as tabled here.

Combination use by difference of picture tube.

Loc No.	R1		R2		R3	
	Part No.	Description	Part No.	Description	Part No.	Description
V901	23312575	A51KSV43X04	23312572	A51EBV13X81 (Video Colour)	23312571	A51EAL55X01 (Philips)
C401	24828273	PF, 0.027 μ F, 200V	24829153	PF, 0.015 μ F, 400V	24828303	PF, 0.03 μ F, 200V
C440	24082346	PF, 6600 μ F, 1500V	24082345	PF, 6200 μ F, 1500V	24082343	PF, 0.03 μ F, 200V
C442	24095755	PF, 0.47 μ F, 200V	24095751	PF, 0.33 μ F, 200V	24095754	PF, 0.043 μ F, 200V
C444	24082333	PF, 2700 μ F, 1500V	24082325	PF, 1200 μ F, 1500V	24082336	PF, 3600 μ F, 1500V
L441	23233070	Coil, TLN211G	23222674	Coil, TLN2055	23233070	Coil, TLN211G
R302	24366474	CF, 470k ohm	24366564	CF, 560k ohm	24366564	CF, 560k ohm
R319	24552222	OMF, 2200 ohm, 1/2W	24552152	OMF, 1500 ohm, 1/2W		Not in use
R321	24366133	CF, 13k ohm	24366123	CF, 12k ohm	24366163	CF, 16k ohm
R322	24366114	CF, 110k ohm	24366124	CF, 120k ohm	24366114	110k ohm
R323	24322758	MF, 0.75 ohm, 1/2W	24322109	MF, 1.0 ohm, 1W	24322828	MF, 0.82 ohm, 1W
R325	24366103	CF, 10k ohm	24366133	CF, 13k ohm	24366103	CF, 10k ohm
R343	24310159	MF, 1.5 ohm, 1/2W	24310189	MF, 1.8 ohm, 1/2W	24310159	MF, 1.5 ohm 1/2W
R920	24000568	FR, 4.7 ohm, 1W	24000940	FR, 2.0 ohm, 2W	24000568	FR, 4.7 ohm, 1W

2141 RB Differences

2141 RB is the same as 2140 RB except for the following parts.

2141 RB is not equipped with Earphone Jack (P601) and A/V INPUT socket (PH20), and the related parts are changed as well.

2140 RB Differences

2140 RB is the same as 2140 TB except for the following differences.

2140 RB is not equipped with Teletext circuit, and the related parts are changed as well. Components on the Text Board are omitted in the following list, because they are obvious.

2140TB (Base Model)			2140RB	
Loc No.	Part No.	Description	Part No.	Description
U903	23702783	Text Board, PB4499	-	Not in use
U902A	23702818	Main Board, PB4501-1	23702920	Main Board, PB4593-1
U902B	23702819	CRT Drive Board, PB 4501-2	23702921	CRT Drive Board, PB 4593-2
R860	24366681	CF, 680 ohm	24366561	cf, 560 ohm
R864	24382560	OMF, 56ohm, 1W	-	Not in use
RA61	24366301	CF, 300 ohm	-	Not in use
RA62	24366301	CF, 300 ohm	-	Not in use
RA80	24366682	CF, 6800 ohm	-	Not in use
RA82	24366682	CF, 6800 ohm	-	Not in use
RA94	24366101	CF, 100 ohm	-	Not in use
RA95	24366101	CF, 100 ohm	-	Not in use
RX08	24366391	CF, 390 ohm	-	Not in use
RX09	24366391	CF, 390 ohm	-	Not in use
RX10	24366391	CF, 390 ohm	-	Not in use
LV01	23238714	Coil, peaking, TRF4100AJ	-	Not in use
D860	23316311	Diode, Zener, UZ6.2BSA	-	Not in use
D861	23316309	Diode, Zener, UZ5.6BSB	23316306	Diode, Zener, UZ5.1BSB
DA04	23316312	Diode, Zener, UZ6.2BSB	-	Not in use
DA05	23316312	Diode, Zener, UZ6.2BSB	-	Not in use
DX01	23115599	Diode, 1N4148	-	Not in use
DX03	23115599	Diode, 1N4148	-	Not in use
DX04	23115599	Diode, 1N4148	-	Not in use
Q861	A6333346	Transistor 2SC2655-Y(C)	-	Not in use
QV10	23314794	Transistor, 2PC1815Y	-	Not in use
QV11	23314794	Transistor, 2PC1815Y	-	Not in use
QV12	23314794	Transistor, 2PC1815Y	-	Not in use
K902	23120324	Remote Hand Unit, CT-9689	23120944	Remote Hand Unit, Ct-9733
A201	234104009	Front Cover	23410398	Front Cover
A411	23568940	Label, Model No, B/C	23568971	Label, Model No, B/C

2140TB (Base Model)			2141RB	
Loc No.	Part No.	Description	Part No.	Description
P601	23365292	Jack, Earphone		Not in use
PH20	23364692	Jack, Phono		Not in Use
R605	24552331	OMF, 330 ohm, 1/2W		Not in Use
R614	24366102	CF, 1K ohm		Not in Use
U902A	23702920	Main Board, PB4593-1	23702999	Main Board, PB4661-2
U902B	23702921	CRT Drive Board, PB4593-2	23703001	CRT Drive Board, PB4661-2
A201	23410398	Front Cover	23410401	Front Cover

[illegible]

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U9028 CRT DRIVE BOARD PB4501-2