



Toshiba MV13P2 Service Manual

Color television/ video cassette recorder

1
2
3
Table Of Contents
4
5
6
7
8
9
10
11
12
13
14
15
16
17

18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65

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•

[Table of Contents](#)

•

Bookmarks

--

Quick Links

[1 Disassembly Instructions](#)

[2 Service Mode List](#)

[Download this manual](#)



FILE NO. 140-200335

SERVICE MANUAL

COLOR TELEVISION/

VIDEO CASSETTE RECORDER

MV13P2

TOSHIBA

DOCUMENT CREATED IN JAPAN, Dec., 2003

[Table of Contents](#)

[Next Page](#)

1
2
3
4
5

Related Manuals for Toshiba MV13P2

[TV VCR Combo Toshiba MV13P2 Owner's Manual](#)

Television/vcr combination (56 pages)

[Color television Toshiba 32A32 Service Manual](#)

(33 pages)

[Color television Toshiba 30HFX84 Service Manual](#)

(50 pages)

Summary of Contents for Toshiba MV13P2

[Page 1](#) FILE NO. 140-200335 SERVICE MANUAL COLOR TELEVISION/ VIDEO CASSETTE RECORDER MV13P2 DOCUMENT CREATED IN JAPAN, Dec., 2003...

[Page 2: Servicing Notices On Checking](#)

SERVICING NOTICES ON CHECKING 1. KEEP THE NOTICES 6. AVOID AN X-RAY As for the places which need special attentions, Safety is secured against an X-ray by consider- they are indicated with the labels or seals on the ing about the cathode-ray tube and the high cabinet, chassis and parts.

[Page 3: Tape Removal Method At No Power Supply](#)

TAPE REMOVAL METHOD AT NO POWER SUPPLY Remove the VCR block from the main unit. (Refer to item 1 of the DISASSEMBLY INSTRUCTIONS.) Remove the screw 1 of the Deck Chassis and remove the Loading Motor. Rotate the Pinch Roller Cam in the direction of the arrow by hand to slacken the Video Tape. Rotate the Clutch Ass'y either of the directions to wind the Video Tape in the Cassette Case.

[Page 4: Table Of Contents](#)

TABLE OF CONTENTS
SERVICING NOTICES ON CHECKINGA1-1
HOW TO ORDER PARTSA1-1
TAPE REMOVAL METHOD AT NO POWER SUPPLYA1-2
TABLE OF CONTENTSA2-1
GENERAL SPECIFICATIONSA3-1~A3-5
DISASSEMBLY INSTRUCTIONS 1. REMOVAL OF MECHANICAL PARTS AND P. C. BOARDSB1-1
2.

[Page 5: General Specifications](#)

GENERAL SPECIFICATIONS
CRT Size / Visual Size 13 inch / 335.4mm
V System CRT Type Normal
Deflection degree Magnetic Field BV/BH +0.45G / 0.18G
Color System NTSC
Speaker 1Speaker
Position Front
Size x 2.7 Inch
Impedance Sound Output 10%(Typical)
System VHS Player / Recorder
System Video System NTSC...

[Page 6](#) GENERAL SPECIFICATIONS
Power Power Source 120V 60Hz
Power Consumption at AC 65 W at 120V 60Hz at DC Stand by (at AC) 5 W at 120V 60 Hz
Per Year Protector Power Fuse
Safety Circuit IC Protector(Micro Fuse)
Dew Sensor Regulation
Safety Radiation...

[Page 7](#) GENERAL SPECIFICATIONS
G-12 Remote Unit RC-JG Control Glow in Dark Remocon
Format Custom Code 40-BFh , 44-BBh
Power Source Voltage(D.C) UM size x pcs UM-4 x 2 pcs
Total Keys Keys Keys Power CH Up CH Down Volume Up Volume Down Input Select Play F.Fwd...

[Page 8](#) GENERAL SPECIFICATIONS
G-13 Features Auto Head Cleaning Auto Tracking HQ (VHS Standard High Quality)
Auto Power On, Auto Play, Auto Rewind, Auto Eject VIDEO PLUS+(SHOWVIEW,G-CODE)
Auto Clock Forward / Reverse Picture Search One Touch Playback
Auto CH Memory Closed Caption TV Auto Shut off Function End Call Index Search...

[Page 9](#) GENERAL SPECIFICATIONS
G-15 Interface Switch Power Play Pause/Still One Touch

Playback Channel Up Channel Down F.FWD/Cue Eject/Stop Main Power SW Volume Up Volume Down Rew/Rev Rec/OTR Input Select Indicator Power Rec/OTR Yes (Red) T-Rec Yes (Red) On Timer Key Light up Rec/OTR One Touch Playback Play...

[Page 10: Disassembly Instructions](#)

DISASSEMBLY INSTRUCTIONS 1-3: TV/VCR BLOCK (Refer to Fig. 1-3) 1. REMOVAL OF MECHANICAL PARTS Remove the 2 screws 1. AND P.C. BOARDS Disconnect the following connectors: 1-1: BACK CABINET (Refer to Fig. 1-1) (CP352, CP401 and CP502). Remove the 4 screws 1. Unlock the support 2.

[Page 11: Removal Of Vcr Deck Parts](#)

DISASSEMBLY INSTRUCTIONS NOTE 2. REMOVAL OF VCR DECK PARTS In case of the Locker R installation, check if the one 2-1: TOP BRACKET (Refer to Fig. 2-1) position of Fig.2-3-B are correctly locked. Extend the 2 supports 1. When you install the Cassette Side R, be sure to move Slide the 2 supports 2 and remove the Top Bracket.

[Page 12](#) DISASSEMBLY INSTRUCTIONS 2-6: LOADING MOTOR/WORM (Refer to Fig. 2-6-A) 2-7: TENSION ASS'Y (Refer to Fig. 2-7-B) Remove the screw 1. Turn the Pinch Roller Cam clockwise so that the Tension Remove the Loading Motor. Holder hook is set to the position of Fig. 2-7-A to move Remove the Worm.

[Page 13](#) DISASSEMBLY INSTRUCTIONS NOTE [OK] Tension Connect Take care not to damage the gears of the S Reel and T Reel. Tension Band The Polyslider Washer may be remained on the back of the reel. [NG] Tension Connect Tension Band Take care not to damage the shaft. Do not touch the section "A"...

[Page 14](#) DISASSEMBLY INSTRUCTIONS 2-10: CASSETTE OPENER/PINCH ROLLER BLOCK/P5 ARM ASS'Y (Refer to Fig. 2-10-A) Unlock the support 1 and remove the Cassette Opener. Remove the Pinch Roller Block and P5 Arm Ass'y. Cassette Opener Spring Position Fig. 2-11-B Pinch Roller Block 2-12: FE HEAD (RECORDER ONLY) (Refer to Fig.

[Page 15](#) DISASSEMBLY INSTRUCTIONS 2-14: CAPSTAN DD UNIT (Refer to Fig. 2-14-A) 2-15: MAIN CAM/PINCH ROLLER CAM/JOINT GEAR (Refer to Fig. 2-15-A) Remove the Capstan Belt. Remove the 3 screws 1. Remove the E-Ring 1, then remove the Main Cam. Remove the E-Ring 2, then remove the Pinch Roller Remove the Capstan DD Unit.

[Page 16](#) DISASSEMBLY INSTRUCTIONS NOTE 2-18: CASSETTE GUIDE POST/INCLINED BASE S/T UNIT/P4 CAP/LED REFLECTOR 1. When you install the Loading Arm S Unit, Loading Arm T (Refer to Fig. 2-18-A) Unit and Main Loading Gear, align each marker. (Refer to Fig. 2-16-B) Remove the P4 Cap.

[Page 17: Removal Of Anode Cap](#)

DISASSEMBLY INSTRUCTIONS 3. After one side is removed, pull in the opposite direction to 3. REMOVAL OF ANODE CAP remove the other. Read the following NOTED items before starting work. NOTE After turning the power off there might still be a potential Take care not to damage the Rubber Cap.

[Page 18: Removal And Installation Of Flat Package Ic](#)

DISASSEMBLY INSTRUCTIONS When IC starts moving back and forth easily after REMOVAL AND INSTALLATION OF FLAT desoldering completely, pickup the corner of the IC using a PACKAGE IC tweezers and remove the IC by moving with the IC desoldering machine. (Refer to Fig. 4-3.) REMOVAL NOTE Put the Masking Tape (cotton tape) around the Flat...

[Page 19](#) DISASSEMBLY INSTRUCTIONS INSTALLATION When bridge-soldering between terminals and/or the soldering amount are not enough, resolder using a Thin-tip Take care of the polarity of new IC and then install the new Soldering Iron. (Refer to Fig. 4-8.) IC fitting on the printed circuit pattern. Then solder each lead on the diagonal positions of IC temporarily.

[Page 20: Key To Abbreviations](#)

KEY TO ABBREVIATIONS Audio/Control H.P.F High Pass Filter Automatic Color Control H.SW Head Switch Audio Erase Hertz Automatic Frequency Control Integrated Circuit Automatic Fine Tuning Intermediate Frequency AFT DET Automatic Fine Tuning Detect Indicator Automatic Gain

[Page 21](#) KEY TO ABBREVIATIONS Serial Strobe Switch SYNC Synchronization SYNC SEP Sync Separator, Separation Transistor TRAC Tracking TRICK PB Trick Playback Test Point UNREG Unregulated Volt Voltage Controlled Oscillator Video Intermediate Frequency Vertical Pulse, Voltage Display V.PB Video Playback Variable Resistor V.REC Video Recording Visual Search Fast Forward...

[Page 22: Service Mode List](#)

SERVICE MODE LIST This unit provided with the following SERVICE MODES so you can repair, examine and adjust easily. To enter SERVICE MODE, unplug AC cord till lost actual clock time. Then press and hold Vol (-) button of main unit and remocon key simultaneously.

[Page 23: Preventive Checks And Service Intervals](#)

PREVENTIVE CHECKS AND SERVICE INTERVALS The following standard table depends on environmental conditions and usage. Parts replacing time does not mean the life span for individual parts. Also, long term storage or misuse may cause transformation and aging of rubber parts. The following list means standard hours, so the checking hours depends on the conditions.

[Page 24](#) PREVENTIVE CHECKS AND SERVICE INTERVALS CLEANING NOTE 2. TAPE RUNNING SYSTEM After cleaning the heads with isopropyl alcohol, do not When cleaning the tape transport system, use the run a tape until the heads dry completely. If the heads gauze moistened with isopropyl alcohol. are not completely dry and alcohol gets on the tape, 3.

[Page 25: When Replacing Eeprom \(Memory\) Ic](#)

WHEN REPLACING EEPROM (MEMORY) IC If a service repair is undertaken where it has been required to change the MEMORY IC, the following steps should be taken to ensure correct data settings while making reference to TABLE 1. NOTE: No need setting for after INI 3F due to the adjustment value. Table 1 Enter DATA SET mode by setting VOLUME to minimum.

[Page 26: Servicing Fixtures And Tools](#)

SERVICING FIXTURES AND TOOLS Alignment Tape Back tension cassette gauge Torque cassette gauge Taper nut driver (KT-300NR) ST-N5 ST-NF 70909103 70909199 70909228 VTR cleaning kit VTR lubrication kit Grease JG002B Adapter JG002E Dial Torque Gauge (10~90gf•cm) JG002F (60~600gf•cm) JG022 Master Plane JG024A Reel Disk Height JG153 X Value Adjustment JG154 Cable...

[Page 27: Mechanical Adjustments](#)

MECHANICAL ADJUSTMENTS 1-2: CONFIRMATION AND ADJUSTMENT OF TENSION 1. CONFIRMATION AND ADJUSTMENT POST POSITION Read the following NOTES before starting work. Set to the PLAY mode. • Place an object which weighs between 450g~500g on the Adjust the adjusting section for the Tension Arm position Cassette Tape to keep it steady when you want to make so that the Tension Arm top is within the standard line of the tape run without the Cassette Holder.

[Page 28](#) MECHANICAL ADJUSTMENTS 1-4: CONFIRMATION OF VSR TORQUE NOTE Install the Torque Gauge (JG002F) and Adapter (JG002B) If the torque is out of the range, replace the following parts. on the S Reel. Set to the Picture Search (Rewind) mode. Check item Replacement Part (Refer to Fig.1-4-B) Then, confirm that it indicates 120~180gf•cm.

[Page 29](#) MECHANICAL ADJUSTMENTS 2-2: CONFIRMATION AND ADJUSTMENT OF AUDIO/ 2-3: TAPE RUNNING ADJUSTMENT CONTROL HEAD (X VALUE ADJUSTMENT) When the Tape Running Mechanism does not work well, Confirm and adjust the height of the Reel Disk. adjust the following items. (Refer to item 1-1) Confirm and adjust the position of the Tension Post.

[Page 30](#) MECHANICAL ADJUSTMENTS 3. MECHANISM ADJUSTMENT PARTS LOCATION GUIDE 1. Tension Connect P4 Post 2. Tension Arm T Brake Spring 3. Guide Roller T Reel 4. Audio/Control Head S Reel 5. X value adjustment driver hole Adjusting section for the Tension Arm position D2-4...

[Page 31: Electrical Adjustments](#)

ELECTRICAL ADJUSTMENTS 1. BEFORE MAKING ELECTRICAL FUNCTION FUNCTION ADJUSTMENTS
OSD H CONT.CENT CUT OFF CONT.MAX Read and perform these adjustments when repairing
the RF AGC CONT.MIN circuits or replacing electrical parts or PCB assemblies. V.VCO COL.CENT
H.VCO COL.MAX CAUTION H.PHAS COL.MIN V.SIZE TINT...

[Page 32](#) ELECTRICAL ADJUSTMENTS 2-6: WHITE BALANCE NOTE: Adjust after performing CUT
OFF adjustment. CH-2 Place the set with Aging Test for more than 15 minutes. Receive the gray
scale pattern. Using the remote control, set the brightness and contrast to normal position.
CH-1 Activate the adjustment mode display of Fig.

[Page 33](#) ELECTRICAL ADJUSTMENTS 2-11: SUB BRIGHTNESS 2-14: SUB COLOR Receive the
color bar pattern. (RF Input) Receive the monoscope pattern. (RF Input) Using the remote
control, set the brightness, contrast, Using the remote control, set the brightness and color and
tint to normal position. contrast to normal position.

[Page 34](#) ELECTRICAL ADJUSTMENTS 2-16: SUB SHARPNESS Activate the adjustment mode
display of Fig. 1-1 and press the channel button (23) on the remote control to select "SHARP".
Check if the step No. of SHARPNESS is "37". Press the INPUT SELECT button on the remote
control to set to the AV mode.

[Page 35](#) ELECTRICAL ADJUSTMENTS 3. PURITY AND CONVERGENCE 3-3: STATIC
CONVERGENCE ADJUSTMENTS NOTE Adjust after performing adjustments in section 3-2. NOTE
Receive the crosshatch pattern from the color bar Turn the unit on and let it warm up for at
least 30 generator.

[Page 36](#) ELECTRICAL ADJUSTMENTS 4. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE
(WIRING CONNECTION) L503 CP351 FB401 CP502 TU601 AC IN VR502 VR401 TP601 CP401
SPEAKER CP352 TP1002 TP4001 A/C HEAD TP1001 CP1003 R802 R810 TP801 TP803 S801 J801
CRT PCB SYSCON PCB D3-6...

[Page 37: Y/C/Audio/Head Amp](#)

TV BLOCK DIAGRAM V. OUTPUT IC IC401 LA78040N-E MICON/ THERMAL IN/OUT/AV PROTECTION
Q602, Q603 Q606 AT+12V AT+5V BACK UP REG. REG. AT+12V Q607 PUMP MICON/ Q604, Q605
Q601 H-CONTROL H_CTL TU_AUDIO IN/OUT/AV Y/C/AUDIO/ UNREG+8V REG. TU_VIDEO BUFFER
HEAD AMP Y/C_AUDIO Q406 Q405 CHROMA/IF IC IC601 M61250FP...

[Page 38](#) Y/C/AUDIO/HEAD AMP BLOCK DIAGRAM X4001 3.579545MHz Q4010 Q4012 BUFFER
BUFFER Y/C/AUDIO/HEAD AMP IC IC4001 LA71206M-MPB VX01 TIMMING DRIVER 3.58M BPF2
CLAMP CP4001 AUTO-BIAS CLAMP Main CONV Y/C_CLK SP-CH2 (L) SERIAL MICON/ Y/C_DATA
DECODER IN/OUT/AV SP_COM B-UP Y/C_CS SP-CH1 (R) C-LPF 3.58M BPF1 VIDEO...

[Page 39](#) MICON/IN/OUT/AV BLOCK DIAGRAM TIMER SYSCON MICON IC IC1001 OEC7107A
SW1001 SYSTEM RESET IC RESET-L 1 OUT IC1003 TAB SW PST3231NR POWER FAIL2 AT+5V
POWER_FAIL_L MSEN-A P. CON+5V X-OUT(12MHz) MS_SEN A X1001 FRONT_AUDIO J4202
Q1009 12MHz X-IN(12MHz) XC-OUT(32KHz) MSEN-B X1002 J4201 FRONT_VIDEO MS_SEN B
32.768KHz...

[Page 40: Printed Circuit Boards Syscon/Crt](#)

PRINTED CIRCUIT BOARDS SYSCON/CRT (INSERTED PARTS) SOLDER SIDE Q804 CD852 R802
R450 W829 C403 C419_1 TP801 D412 R807 R820 R808 TP802 Q805 D413 R805 TP803 W813
D409 W847 W841 R655_1 R420_1 W103 C801_1 Q806 W104 R442_1 W216 R490 S801 C1001
R816_1 CD853 D801...

[Page 41](#) PRINTED CIRCUIT BOARDS SYSCON/CRT (CHIP MOUNTED PARTS) SOLDER SIDE R352
R353 C301 Q1007 R359 Q4202 R1011 C1039_1 R1084 R1086 C1042_1 C4061_1 R4043 R4041
R1070 R4054 Q4012 R4042 C4041 R4026 C4059 R4038 C4043 R1025 R1035 Q4010 R1033
C1061 C4069 R1078 R1034 Q4009 R1021 R4051...

[Page 42](#) Y/C/AUDIO/HEAD AMP SCHEMATIC DIAGRAM (SYSCON PCB) BUFFER Q4012
2SC2412K R4041 FROM AV 1.8K FRONT_VIDEO FROM TV POWER FRONT_AUDIO P.CON+5V
W858 C4058 6.3V TO IN/OUT C4059 Y/C_AUDIO 0.1 F Y/C_VIDEO R4038 C4061_1 680K 0.01 B
FROM/TO MICON Y/C_CLK Y/C_DATA Y/C_CS V.REC_ST_H VCR_A_MUTE C4016 COMP OUT...

[Page 43](#) MICON SCHEMATIC DIAGRAM (SYSCON PCB) FROM TV POWER POWER_FAIL2 SERVICE P.CON+5V R1032 TP1001 C1056 0.1 F MOTOR+12V (MOTER GND) C1034 0.1 F R1029 FROM/TO Y/C/AUDIO/HEAD AMP 4.7K C1035 Y/C_CLK 220P CH Y/C_DATA C1031 R1044 C1062_1 Y/C_CS 0.001 B H.SW R1033 C1001 3.3K SD_VIDEO...

[Page 44](#) IN/OUT SCHEMATIC DIAGRAM (SYSCON PCB) FROM CHROMA/IF AT+5V INT-MONI FROM/TO MICON B.OUT T-REC/PLAY LED SW IIC_OFF Q4202 DTC114EKA REC_LED SW(AI) REC_LED Q1007 DTC114EKA FROM AV AT+5V FROM/TO TV POWER T-REC_LED FROM Y/C/AUDIO/HEAD AMP Y/C_AUDIO Y/C_VIDEO PCB010 VMB281 B.SIGNAL RECORD LUMINANCE SIGNAL NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME CAUTION: DIGITAL TRANSISTOR NOTE:THE DC VOLTAGE EACH PART WAS...

[Page 45](#) AV SCHEMATIC DIAGRAM (AV PCB) TO Y/C/AUDIO/HEAD AMP FRONT AUDIO(L) TO CHASSIS FRONT_AUDIO J4202 FRONT_AUDIO AV1-09D-4 CD853 FRONT_VIDEO FRONT_VIDEO CH012101 TO IN/OUT FRONT VIDEO J4201 AV1-09D-3 AT+5V AT+5V FROM/TO SOND AMP SOUND+ SOUND+ SP_OUT SP_OUT SOUND_GND SOUND_GND HEADPHONE JACK J351 C382 MSJ-2000 TO MICON...

[Page 46](#) CHROMA/IF SCHEMATIC DIAGRAM (SYSCON PCB) FROM/TO MICON REG. 11.0 W915 Q606 KTC3203_Y PROTECT AT+5V REG. AT+5V D608 Q603 AT+5V_BACKUP KTC3203_Y REG. REG. SB140-EIC Q604 Q605 Q602 W801 KTD863_Y KTD863_Y KTC3203_Y OSD_R OSD_G W895 OSD_B OSD_BLK FROM/TO Y/C/AUDIO/HEAD AMP C648 R669 TU_VIDEO CF604...

[Page 47](#) SOUND AMP SCHEMATIC DIAGRAM (SYSCON PCB) CP352 A2502WV2-2P SPEAKER W809 SP351 SP_OUT SG04D11BNA SOUND_GND 8 OHM CD353 CH12444A FROM/TO AV SOUND+ SP_OUT SOUND_GND W814 FROM MICON R359 TV_A MUTE R353 TV_POWER_H C301 0.012 FROM TV POWER SOUND+B SOUND_GND FROM CHROMA/IF C355_1 R357 AUDIO_OUT 0.47...

[Page 48](#) POWER SCHEMATIC DIAGRAM (SYSCON PCB) 5A 125V CAUTION :FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE 5A 125V (F501). ATTENTION :POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE N'UTILISER QUE DES FUSIBLE DE MEME TYPE 5A 125V (F501). CP503 CD503 RE-H022TD-1130...

[Page 49](#) DEFLECTION SCHEMATIC DIAGRAM (SYSCON PCB) V.OUTPUT IC IC401 LA78040N-E THERMAL PROTECTION PUMP UP 25.9 12.5 26.3 D402 1N4937 TO DY CP401 A1561WV2-A5P W840 R401 W857 R413 R416 1.8K FB401_1 FNI-14B001 FROM/TO CHROMA/IF VIDEO HS401 V_OUT 736WSAA013 V_FEEDBACK V801 W807 A34AGT13X98(L) W839 L401_1 W841...

[Page 50](#) CRT SCHEMATIC DIAGRAM (CRT PCB) 126.5 J801_1 ISMS01S 104.1 127.5 127.5 TP801 R802 BLUE AMP Q804 12K 1W 132.5 25C4217 R807 2.7K 1/4W R808 2.7K 1/4W R811 FROM CHROMA/IF TP802 CP851B (CP851A) C809 B2013H02-10P R805 270P B 12K 1W GREEN AMP CUT_OFF CUT_OFF Q805...

[Page 51](#) INTERCONNECTION DIAGRAM HALL MAIN ROTOR SENSOR COIL MAGNET FG SENSOR LOADING MOTOR HALL HALL M101 SWITCH LOGIC HEADPHONE JACK J351 CP1001 CAP_FG CAP_VCO FRONT AUDIO(L) FRONT VIDEO J4202 J4201 CAP/M/F/R I_LIMIT MOTOR_GND LD/CY_VCO CAP_CTL S101A LDM_CTL WHITE CAPSTAN DD UNIT ASS'Y AC120V_60Hz CYL_FG/PG M2001...

[Page 52: Y/C/Audio/Head Amp](#)

WAVEFORMS Y/C/AUDIO/HEAD AMP MICON POWER ON 11 PB 1.0V 20 μ s/div 0.5V 20 μ s/div 0.5V 0.5ms/div POWER ON POWER ON 13 PB 100mV 0.1 μ s/div 0.5V 10ms/div 1.0V 5ms/div SOUND AMP POWER ON POWER ON 1.0V 10 μ s/div 10mV 20 μ s/div 200mV 2ms/div DEFLECTION 17 POWER ON 0.5V 5ms/div 1.0V 10ms/div 0.5V 1ms/div...

[Page 53](#) WAVEFORMS 19 POWER ON 2.0V 20 μ s/div 20 POWER ON 200mV 20 μ s/div 21 POWER ON 50.0V 20 μ s/div 22 POWER ON 50.0V 20 μ s/div POWER ON 50.0V 20 μ s/div NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

[Page 54: Mechanical Exploded Views](#)

MECHANICAL EXPLODED VIEW PCB110 (CRT PCB ASS'Y) 101B 101H 101F 101G 101D 101C 101E

101A I1-1...

[Page 55](#) MECHANICAL EXPLODED VIEW PCB010 (SYSCON PCB ASS'Y) I1-2...

[Page 56](#) MECHANICAL EXPLODED VIEW (PACKING DIAGRAM) 121, 122, 123, 124, 125, BL001, TM101 I1-3...

[Page 57: Chassis Exploded Views](#)

CHASSIS EXPLODED VIEW (TOP VIEW) CD1501 M2003 UN4001 H5002 H5001 CD1502 M101
NOTE: Applying positions AA for the grease are CLASS MARK displayed for this section. GREASE Check if the correct grease is applied for each position. I2-1...

[Page 58](#) CHASSIS EXPLODED VIEW (BOTTOM VIEW) M2001 CD1501 CD1502 NOTE: Applying positions AA for the grease are CLASS MARK displayed for this section. GREASE Check if the correct grease is applied for each position. I2-2...

[Page 59: Mechanical Replacement Parts List](#)

MECHANICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description
AE002770 7A701A018A FRONT CABI ASS'Y 101A AE002771 701WPJC487 CABINET,FRONT 101B
AE002772 712WPJB964 FLAP 101C AD301664 713WPA0248 GLASS,LED 101D AD301663
713WPA0249 GUIDE,REMOCON 101E AD301657 723549A011 BADGE,BRAND 101F AD301661
735WPAA493 STOPPER,BUTTON 101G AE002773 735WPBA957...

[Page 60: Chassis Replacement Parts List](#)

CHASSIS REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description AD301674
A5E201A420K DECK ASS'Y A5E201A420K AE002754 85OA400240 PINCH ROLLER BLOCK (VA)
BZ710514 85OP900746 BRACKET,TOP 3V BZ710193 85OP200290 BELT,CAPSTAN (S) BZ710515
85OP600581 WORM BZ710094 85OP500083 BASE,AC HEAD BZ710112 85OP800324 SPRING,AC
HEAD BZ710516 85OA000459 MAIN CHASSIS ASS'Y...

[Page 61: Electrical Replacement Parts List](#)

ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description
RESISTORS ! R402 BZ210225 R3X181271J R,METAL OXIDE 270 OHM 1W ! R410 AD301140
R3X28A221J R,METAL OXIDE 220 OHM 2W ! R415 BZ210053 R002T22R2J 2.2 OHM 1/2W ! R420
BZ210233 R4X5T6272F R,METAL 2.7K OHM 1/6W...

[Page 62](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description DIODES ! D517 AD300731 D2WXN49370 DIODE,SILICON 1N4937 ! D518 BZ410085
D2WXN40050 DIODE,SILICON 1N4005-EIC ! D519 BZ410010 D28T21DQN9 DIODE,SCHOTTKY
21DQ09N-TA2B1 ! D520 BZ410085 D2WXN40050 DIODE,SILICON 1N4005-EIC ! D521 BZ410085
D2WXN40050 DIODE,SILICON 1N4005-EIC D528...

[Page 63](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description TRANSISTORS Q1013 BZ410097 0000M00390 PHOTO TRANSISTOR ST-304L Q1014
BZ510021 TNYJC05001 COMPOUND TRANSISTOR DTC124EKAT146 Q4001 BZ510069
TCATC31980 TRANSISTOR,SILICON KTC3198-AT(Y,GR) Q4002 BZ510069 TCATC31980
TRANSISTOR,SILICON KTC3198-AT(Y,GR) Q4003 BZ510026 TPYJC05001 COMPOUND
TRANSISTOR DTA124EKAT146 Q4005 BZ510073 TAATA12660...

[Page 64](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description MISCELLANEOUS CF601 BZ613031 1029045R7G FILTER,SAW TSF5229P3 CF602
AD300513 1012T04702 FILTER,CERAMIC TRAP MKT47.3MC110P-TF CF603 AD301647
1012T4R520 FILTER,CERAMIC SFSRA4M50CF00-A0 CF604 AD301648 1012T4R519
FILTER,CERAMIC TRAP TPSRA4M50C00-A0 CP351 AD301329 069E260659 CONNECTOR PCB
SIDE 00_8283_0611_00_000 CP352 BZ614365...

[Page 65](#) TOSHIBA CORPORATION 1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN...

