

TOSHIBA

Toshiba MV13K1R Service Manual

1
2
3
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
Table Of Contents
64

• PAGE
1



-

[Table of Contents](#)

•

Bookmarks

[Download this manual](#)

Quick Links

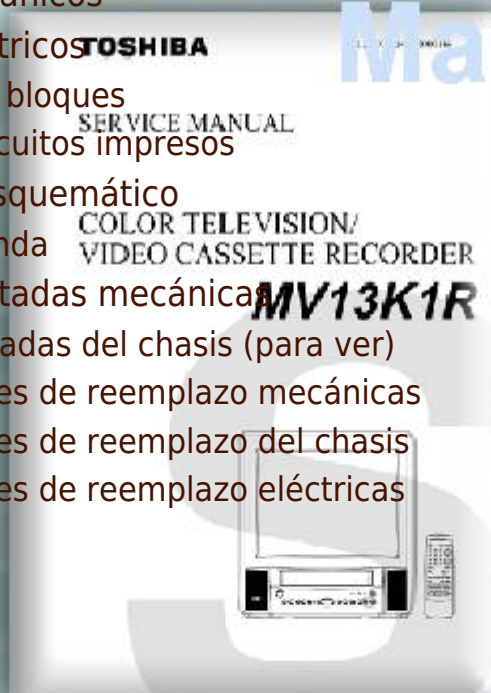


Especificaciones generales
Instrucciones de desensamble
Clave para abreviaturas

TOSHIBA

MV13K1R

Lista de modos de servicio
Revisiones preventivas e intervalos de servicio
Nota para el reemplazo del IC de memoria
Jigs de servicio y herramientas
Ajustes mecánicos
Ajustes eléctricos
Diagramas a bloques
Placas de circuitos impresos
Diagrama esquemático
Formas de onda
Vistas explotadas mecánicas
Vistas explotadas del chasis (para ver)
Lista de partes de reemplazo mecánicas
Lista de partes de reemplazo del chasis
Lista de partes de reemplazo eléctricas



[Table of Contents](#)

[Next Page](#)

1
2
3
4
5

Related Manuals for Toshiba MV13K1R

[TV VCR Combo Toshiba MV13K2 Owner's Manual](#)

Combination color television and video cassette player (58 pages)

[TV VCR Combo Toshiba MV13K2 Service Manual](#)

Color television/ video cassette recorder (70 pages)

[TV VCR Combo Toshiba MV13K2 Owner's Manual](#)

Combination color television and video cassette player (58 pages)

[TV VCR Combo Toshiba MV13K1 Owner's Manual](#)

Combination color television and 4 head video cassette recorder (58 pages)

[TV VCR Combo Toshiba MV13K1 Owner's Manual](#)

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[TV VCR Combo Toshiba MV13K1 Service Manual](#)

Color television/ video cassette recorder (71 pages)

[TV VCR Combo Toshiba MV13K1W Service Manual](#)

Color television / video cassette recorder (70 pages)

[TV VCR Combo Toshiba MV13K3CR Service Manual](#)

Color television / video cassette recorder (62 pages)

[TV VCR Combo Toshiba MV13K2R Service Manual](#)

(62 pages)

[TV VCR Combo Toshiba MV13N3C Owner's Manual](#)

Toshiba owner's manual television/vcr combination mv13n3c, mv19n3c (52 pages)

[TV VCR Combo Toshiba MV13P3 Service Manual](#)

Color television/video cassette recorder (65 pages)

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

Television/vcr combination (56 pages)

[TV VCR Combo Toshiba MV13P3 Owner's Manual](#)

Television/vcr combination (56 pages)

[TV VCR Combo Toshiba MV13N3 Owner's Manual](#)

Television/vcr combination (56 pages)

[TV VCR Combo Toshiba MV13DM2 Service Manual](#)

Toshiba color television/ video cassette recorder (69 pages)

[TV VCR Combo Toshiba MV13M3C Service Manual](#)

Color television/video cassette recorder (63 pages)

Summary of Contents for Toshiba MV13K1R

[Page 1](#) Televisión y Videograbadora Especificaciones generales Instrucciones de desensamble
Clave para abreviaturas MV13K1R Lista de modos de servicio Revisiones preventivas e
intervalos de servicio Nota para el reemplazo del IC de memoria Jigs de servicio y herramientas
Ajustes mecánicos Ajustes eléctricos...

[Page 2](#) FILE NO. 140-200016 SERVICE MANUAL COLOR TELEVISION/ VIDEO CASSETTE
RECORDER MV13K1R...

[Page 3: 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 4: General Specifications](#)

GENERAL SPECIFICATIONS G-1.Outline of the Product inch(335.4 mmV):Measured diagonally Color CRT degree deflection -Speed 1/2" Video Cassette Recorder Recorder/Player VHS-C Player G-2.VCR Format VHS Standard NTSC SECAM PAL-M PAL-N VHS Hi-Fi Audio System G-3.Video Recording System :Rotary,slant azimuth two head helical scan system Luminance Component :FM recording Chrominance Component...

[Page 5](#) GENERAL SPECIFICATIONS G-16.Antenna Input Impedance VHF/UHF 75 ohm unbalanced G-17.Tuner and Receiving channel 1Tuner System 2Tuner System BS Tuner Tuner : Contactless Electric tuner Oscar(W/O HYPER) Oscar(W/ HYPER) France CATV) Others channel coverage 2 ~ 69 , 4A , A-5 ~ A-1 , A ~ I , J ~ W , W+1 ~ W+84 Tuning System Frequency syn.

[Page 6](#) GENERAL SPECIFICATIONS G-26.Power Consumption: 70 W at AC 60 Hz(Approx.) - W at DC (at TV and VCR ON) Stand by: 5 W at AC 60 Hz(Approx.) Per Year: --- kWh / Year G-27.Dimensions(Approx.) 362 mm(W) 369 mm(D) mm(H) G-28.Weight(Approx.) Net : 12.5 Kg (27.6 lbs) Gross:...

[Page 7](#) GENERAL SPECIFICATIONS G-37.Timer back up Time More than 1/12 Minutes (at Power Off Mode) G-38.Terminals VHF/UHF Antenna Input Din Type F-Type France Type Front Video Input<RCA ø8.3> Front Audio Input<RCA ø8.3> Rear Video Input<RCA ø8.3> Rear Audio Input<RCA ø8.3> Rear Video Output<RCA ø8.3> Rear Audio Output<RCA ø8.3>...

[Page 8](#) GENERAL SPECIFICATIONS G-42.Speaker Position Front Side Bottom Size 1.5 x 2.5 inches Imp. 8 ohm x Output W (Typical) G-43.EXT Speaker G-44.Carton Master Carton: Need No Need Content: ---- Material: ---- / ---- Corrugated Carton Dimensions: ---- mm(W) ---- mm(D) ---- mm(H) Description of Origin Gift Box...

[Page 9](#) GENERAL SPECIFICATIONS G-47.Switch Front Power Channel Up Volume Up Play Channel Down Volume Down Pause/Still F.FWD/Cue Rew/Rev System Select Eject/Stop Rec/OTR One Touch Playback Main Power SW Input Select Rear Color On/Off (SECAM only) Degauss Main Power SW AC/DC G-48.Magnetic Field BV : +0.45G BV :...

[Page 10: Removal Of Mechanical Parts And P.c. Boards](#)

DISASSEMBLY INSTRUCTIONS 1. REMOVAL OF MECHANICAL PARTS 1-3: TV/VCR BLOCK (Refer to Fig. 1-3) Remove the 2 screws 1. AND P.C. BOARDS Disconnect the following connectors: 1-1: BACK CABINET (Refer to Fig. 1-1) (CP352, CP353, CP354, CP401 and CP502). Remove the 4 screws 1. Unlock the support 2.

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

DISASSEMBLY INSTRUCTIONS 2. REMOVAL OF DECK PARTS NOTE When you install the Tape Guide L, install as shown in the 2-1: TOP BRACKET (Refer to Fig. 2-1) circle of Fig. 2-3-B. (Refer to Fig. 2-3-B) Remove the 2 screws 1. Slide the 2 supports 2 and remove the Top Bracket.

[Page 12](#) DISASSEMBLY INSTRUCTIONS 2-6: LINK ASS'Y (Refer to Fig. 2-6) 2-9: TENSION ASS'Y (Refer to Fig. 2-9-A) Set the Link Ass'y to the Eject position. Move the Inclined S Ass'y to the back side. Remove the (A) side of the Link Ass'y first, then remove Remove the Tension Spring.

[Page 13](#) DISASSEMBLY INSTRUCTIONS 2-11: S REEL/T REEL (Refer to Fig. 2-11) NOTE Remove the S Reel and T Reel. Do not touch the Pinch Roller. (Use gloves.) Remove the 2 Polyslider Washers 1. When you install the Pinch Roller Block, install as shown in the circle of Fig.

[Page 14](#) DISASSEMBLY INSTRUCTIONS 2-15: AHC ASS'Y/CYLINDER UNIT ASS'Y (Refer to Fig. 2-15) Middle Gear Unlock the support 1 and remove the AHC Ass'y. E-Ring Remove the 3 screws 2. Remove the Cylinder Unit Ass'y. Main Cam NOTE Pinch Roller Cam When you install the Cylinder Unit Ass'y, tighten the screws from (1) to (3) in order while pulling the Ass'y Joint Gear toward the left front direction.

[Page 15](#) DISASSEMBLY INSTRUCTIONS 2-19: LOADING GEAR S/T ASS'Y (Refer to Fig. 2-19-A)
2. When you install the Clutch Actuator, install as shown in the circle of Fig. 2-19-C. (Refer to Fig. 2-19-C) Remove the E-Ring 1 and remove the Main Loading Gear.

[Page 16: Removal Of Anode Cap](#)

DISASSEMBLY INSTRUCTIONS 3. REMOVAL OF ANODE CAP 3. After one side is removed, pull in the opposite direction to 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 17: Key To Abbreviations](#)

KEY TO ABBREVIATIONS Audio/Control H.SW Head Switch Automatic Color Control Hertz Audio Erase Integrated Circuit Automatic Frequency Control Intermediate Frequency Automatic Fine Tuning Indicator AFT DET Automatic Fine Tuning Detect Inverter Automatic Gain Control Killer Amplifier Left Antenna Light Emitting Diode A.PB Audio Playback LIMIT AMP...

[Page 18](#) KEY TO ABBREVIATIONS 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 Visual Search Rewind Voltage Super Source...

[Page 19: 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 20: Preventive Checks And Service Intervals](#)

PREVENTIVE CHECKS AND SERVICE INTERVALS The following standard table depends on environmental conditions and usage. Unless maintenance is properly carried out, the following service intervals may be quite shortened as harmful effects may be had on other parts. Also, long term storage or misuse may cause transformation and aging of rubber parts. Time 1,000 1,500...

[Page 21: Audio Control Head](#)

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 22: Note For The Replacing Of Memory Ic](#)

NOTE FOR THE REPLACING OF 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: Initial Data setting will not be possible if clock has been set.

[Page 23: 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 24: Confirmation And Adjustment](#)

MECHANICAL ADJUSTMENTS 1. CONFIRMATION AND ADJUSTMENT 1-2: CONFIRMATION AND ADJUSTMENT OF TENSION POST POSITION Read the following NOTES before starting work. Set to the PLAY mode. • Place an object which weighs between 450g~500g on Adjust the Tension Adjust until the edge of the Tension the Cassette Tape to keep it steady when you want to Arm is positioning within 0.5mm range from the make the tape run without the Cassette Holder.

[Page 25: Confirmation And Adjustment Of Tape Running Mechanism](#)

MECHANICAL ADJUSTMENTS 1-4: CONFIRMATION OF VSR TORQUE 2. CONFIRMATION AND ADJUSTMENT OF TAPE RUNNING MECHANISM Operate within 4~5 seconds after the reel disk begins to turn. Tape Running Mechanism is adjusted precisely at the Install the Torque Gauge (JG002F) and Adapter (JG002B) factory.

[Page 26](#) 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 27: Mechanism Adjustment Parts Location Guide](#)

MECHANICAL ADJUSTMENTS 3. MECHANISM ADJUSTMENT PARTS LOCATION GUIDE 1. Tension Adjust X value adjustment driver hole 2. Tension Arm P4 Post 3. Guide Roller T Brake Spring 4. P1 Post T Reel 5. Audio/Control Head S Reel...

[Page 28: Electrical Adjustments](#)

ELECTRICAL ADJUSTMENTS BEFORE MAKING ELECTRICAL 2. BASIC ADJUSTMENTS ADJUSTMENTS (VCR SECTION) Read and perform these adjustments when repairing the 2-1: PG SHIFTER circuits or replacing electrical parts or PCB assemblies. Connect CH-1 on the oscilloscope to TP1002 and CH-2 CAUTION to pin 4 of CP1003.

[Page 29](#) ELECTRICAL ADJUSTMENTS 2-3: RF AGC 2-8: HORIZONTAL PHASE Receive a 70dB monoscope pattern. Receive the monoscope pattern. Connect the digital voltmeter between the pin 5 of Using the remote control, set the brightness and CP351 and the pin 1 (GND) of CP351. contrast to normal position.

[Page 30](#) ELECTRICAL ADJUSTMENTS 2-13: SUB TINT 2-15: OSD HORIZONTAL Receive the color bar pattern. (RF Input) Activate the adjustment mode display of Fig. 1-1. Connect the synchro scope to TP803. Press the VOL. UP/DOWN button on the remote Using the remote control, set the brightness, contrast, control until the difference of A and B becomes color and tint to normal position.

[Page 31: Electrical Adjustment Parts Location Guide](#)

ELECTRICAL ADJUSTMENTS 3. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE TP1001 CP1003 TP1002 TP4001 R520 VR502 TU601 FB401 CP351 FOCUS VOLUME SCREEN VOLUME SYSCON TP801 TP803 J801...

[Page 32: Purity And Convergence Adjustments](#)

ELECTRICAL ADJUSTMENTS 4-3: STATIC CONVERGENCE 4. PURITY AND CONVERGENCE ADJUSTMENTS NOTE Adjust after performing adjustments in section 4-2. NOTE Receive the crosshatch pattern from the color bar Turn the unit on and let it warm up for at least 30 generator.

[Page 33: Tv Block Diagram](#)

TV BLOCK DIAGRAM V. OUTPUT IC401 LA78040 MICON/ OPERATION/ THERMAL DECK PROTECTION Q602, Q603 Q606 AT+5V P.CON+8V AT+25V PUMP Q604, Q605 TU_AUDIO Y/C/AUDIO/ P.CON+5V HEAD AMP/ TU_VIDEO IN/OUT Y/C_AUDIO Q405 Q406 CHROMA IC601 M61203CFP H-DRIVE H. OUTPUT 33 39 46 63 48 DELAY ADJ 5.7Vreg...

[Page 34: Y/C/Audio/Head Amp/In/Out Block Diagram](#)

Y/C/AUDIO/HEAD AMP/IN/OUT BLOCK DIAGRAM X4001 3.579545MHz Q4009 BUFFER Y/C/A/CCD/H.AMP IC4001 LA71067SM-MPB PULL SP/LP/EP-H VX01 MICON/ INPUT_SEL TIMMING DRIVER CLAMP OPERATION/ DECK TRICK_PB-H/EE-H H.SW DATAL FM-EQ EMPHA DOC_XO_CTL CLAMP CONV C-LPF Y-LPF H.AMP CP4001 YNR/ Main 3.58M B-UP COMB CONV BPF2 SP-CH2 (L) CLAMP SP COM...

[Page 35](#) MICON/OPERATION/DECK BLOCK DIAGRAM SW1001 TIMER SYSCON MICON IC1001 OEC7043B TAB SW AT + 5V POWER_FAIL_L MSSEN-A P. CON + 5V POWER FAIL 2 MS_SEN A Q1009 X-OUT(12MHz) X1001 MSSEN-B 12MHz X-IN(12MHz) MS_SEN B Q1003 Q1006 XC-OUT(32KHz) X1002 Q1002 X_RAY_SW 32.768KHz XC-IN(32MHz) SENS LED SENSOR SW...

[Page 36](#) PRINTED CIRCUIT BOARDS OPERATION SOLDER SIDE R761 D791 R754 W001 W811 R350 R351 W002 J701_1 CD351_1 C701 DECK SOLDER SIDE CP101 S105 S101 S104 S103 S102 Q101...

[Page 37](#) PRINTED CIRCUIT BOARDS SYSCON/CRT (INSERTED PARTS) SOLDER SIDE W107 CP1006 W813 W291 L801 S801 R450_2 R454 W811 D1005 C404 W091 R820 W124 C430_1 W088 Q806_1 TP802 TP801 TP803 W892 D614 W027 W814 W154 D618 W249 W159 W100 R678 W851 D612 Q805_1 D1004 CP1005_1...

[Page 38](#) PRINTED CIRCUIT BOARDS SYSCON/CRT (CHIP MOUNTED PARTS) SOLDER SIDE C1033 C1005 W918 W803 C4204 R352 R353 R357 C301 C4207 R4201 Q4201 C1024 R359 W913 Q1006 C353 W900 W801 Q4202 C617 R523 R4014 R4060 C4028 C4036 C4044 C4055 R1046 R4046 R4055 R1047 Q4009 R4057...

[Page 39](#) Y/C/AUDIO/HEAD AMP SCHEMATIC DIAGRAM (SYSCON PCB) L4008 100uH 0305 L4002 100uH 0305 FROM/TO TV POWER S103X S103Y W836 W896 W922 P.CON+5V S104Y W826 W923 R4070 6.8M R4014 R4041 1.8K TP4001 FROM/TO CYL/MOTOR FROM/TO I/O CP4001 TOC-C09X-A1 C4073 FRONT_AUDIO NC NC Y/C/AUDIO/CCD/HEAD AMP IC 2.4 2.4 2.4 0 2.4 5.0 2.3 2.3 2.8 2.3 1.5 2.0...

[Page 40: Micon Schematic Diagram](#)

MICON SCHEMATIC DIAGRAM (SYSCON PCB) FROM/TO TV POWER DEGAUSS_H SERVICE R1032 C1056 TP1001 0.1 B POWER_FAIL2 C1041 P.CON+5V C1044 AT+12V 0.1 B MOTOR_GND 220P CH C1034 C1045 TV_POWER_H 0.1 F R1029 220P CH C1035 FROM/TO Y/C/A/H.AMP 4.7K 200P CH H.SW DOC_XO_CTL REC/EE/PB R1044...

[Page 41: In/Out Schematic Diagram](#)

IN/OUT SCHEMATIC DIAGRAM (SYSCON PCB) W918 L1002 100uH Vout OS1001 GP1U281Q R1057 R1058 R1059 R1060 FROM/TO SOUND AMP SOUND_GND 1.5K SOUND+ SP_OUT FROM/TO CHROMA/IF R1062 R1065 R1067 R1068 R1069 AT+5V 5.6K 2.7K 1.5K INT-MONI B.OUT T-REC LED SW(TO) W916 Q4202 (T0) DTC114EKA LEC LED SW(TO)

[Page 42](#) CHROMA/IF SCHEMATIC DIAGRAM (SYSCON PCB) 11.0 REG. R632 Q606 FROM/TO MICON 220 2W AT+5V REG. 2SD863 AT+5V D608 Q603 AT+5V_BACKUP 2SC2120Y REG. REG. SB10-03A3 Q602 REG. Q605 2SC2120Y Q604 2SD400E OSD_R 2SD400E OSD_G OSD_B R629 OSD_BLK R662 W876 TU_VIDEO B604 CF604 FROM/TO Y/C/A/H.AMP AFT_M...

[Page 43: Sound Amp Schematic Diagram](#)

SOUND AMP SCHEMATIC DIAGRAM (SYSCON PCB) FROM/TO I/O SPEAKER CP352 B2B-EH-A SP351 SP_OUT SP_OUT 810-47-171 SOUND_GND SOUND+ 8 OHM CD353 SOUND_GND CH12426A FROM/TO MICON R359 TV_A MUTE R353 TV_POWER_H C301 0.0047 FROM/TO TV POWER SOUND+B W803 SOUND_GND FROM/TO CHROMA/IF S107X C355 R357...

[Page 44: Power Schematic Diagram](#)

POWER SCHEMATIC DIAGRAM (SYSCON PCB) 5A 125V 4A 125V CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE 5A 125V (F501,ICP501,ICP502,ICP503), AND 4A 125V(ICP505). ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE N'UTILISER QUE DES FUSIBLE DE MEME TYPE 5A 125V (F501,ICP501,ICP502,ICP503), ET 4A 125V(ICP505).

[Page 45: Deflection Schematic Diagram](#)

DEFLECTION SCHEMATIC DIAGRAM (SYSCON PCB) V.OUTPUT IC IC401 LA78040 THERMAL PROTECTION PUMP UP 25.9 12.5 26.3 DRIVER Q402 KTA1281_Y D402 26.0 26.0 RMPG06J C404 25.0 TO DY 500V 470P CP401 B05B-DVS R401 W830 W857 S104X R413 R416 FROM/TO MICON 1.8K R424 TV_POWER_H SWITCHING...

[Page 46: Crt Schematic Diagram](#)

CRT SCHEMATIC DIAGRAM (SYSCON PCB) 126.5 J801_1 HPS3200-010501 104.1 127.5 127.5 TP801 BLUE AMP R802 Q804_1 2SC4217 132.5 12K 1W R807 2.7K 1/4W FROM CHROMA/IF CP851B (CP851A) 51048-1000 R811 CUT_OFF 4.7K CUT OFF C809 TP802 G.OUT G.OUT B.OUT 680P B B.OUT R805 GREEN AMP...

[Page 47: Operation Schematic Diagram](#)

OPERATION SCHEMATIC DIAGRAM (OPERATION PCB) J351 HTJ-035-28A R350 R351 22 1/2W 22 1/2W FROM/TO I/O CD351_1 (CP353) CH27091A FRONT VIDEO IN C701 FRONT A IN L L004 1000P B SOUND GND HF57T18.5*10*10 W805 SOUND OUT L SP OUT L POWER/PLAY R761 270 1/4W D792...

[Page 48: Deck Schematic Diagram](#)

DECK SCHEMATIC DIAGRAM LOADING MOTOR M101 (DECK PCB) S105 BOT SENSOR S106 Q101 RPT-38PB113 S101 S102 S103 S104 FROM/TO MICON CP101 (CP1006) 52044-0445 LDM+ LDM- PCB550 VE8851 NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME NOTE: THE DC VOLTAGE AT EACH PART WAS CAUTION: SINCE THESE PARTS MARKED BY ATTENTION:...

[Page 49: Interconnection Diagram](#)

INTERCONNECTION DIAGRAM OPERATION PCB HEADPHONE JACK PCB030 J351 TE9A16 FRONT AV JACK J701 HALL MAIN ROTOR SENSOR COIL MAGNET FG SENSOR TM101 HALL HALL SWITCH LOGIC CP1004 SPEAKER CP352 MOTOR GND SP OUT I LIMIT SOUND GND Vout CD353 SP351 OS1001 8 OHM CAP/M/F/R...

[Page 50: Sound Amp](#)

WAVEFORMS Y/C/AUDIO/HEAD AMP 1 REC/PB REC/PB 11 REC/PB 0.5V 20 μ s/div 1V 5ms/div 1V 10ms/div SOUND AMP 2 REC/PB 7 REC/PB 12 200mV 0.1ms/div 100mV 0.5 μ s/div 1V 50ns/div TV POWER 13 REC/PB 3 PB REC/PB 5V 0.1ms/div 100mV 5ms/div 1V 10ms/div 14 REC/PB 4 REC 9 PB...

[Page 51](#) WAVEFORMS 21 20.0V 20 μ s/div 16 1V 10ms/div 17 5V 20 μ s/div 18 0.5V 20 μ s/div 19 20.0V 20 μ s/div 20 20.0V 20 μ s/div NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

[Page 52: Mechanical Exploded View](#)

MECHANICAL EXPLODED VIEW J801 PCB110 (CRT PCB) L503 V801 PCB030 (OPERATION PCB) SP351...

[Page 53](#) MECHANICAL EXPLODED VIEW FB401 PCB800 (SYSCON PCB)

[Page 54: Chassis Exploded View \(Top View\)](#)

CHASSIS EXPLODED VIEW (TOP VIEW) M2003 UN4001 H5001 H5002 M101 PCB550 (DECK PCB ASS'Y) NOTE: Applying positions AA and BA for the grease or CLASS MARK oil are displayed for this section. GREASE Check if the correct grease or oil is applied for each position.

[Page 55: Chassis Exploded View \(Bottom View\)](#)

CHASSIS EXPLODED VIEW (BOTTOM VIEW) M2001 NOTE: Applying positions AA and BA for the grease or CLASS MARK oil are displayed for this section. GREASE Check if the correct grease or oil is applied for each position.

[Page 56: Mechanical Replacement Parts List](#)

MECHANICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description
BZ610098 A550A3A720 CABINET,FRONT ASS'Y BZ710248 752WSAA028 SHIELD,BOTTOM
BZ710269 752WSA0213 SHIELD,CASE HEAD AMP ASS'Y BZ710235 753WSA0120
PLATE,BOTTOM-EARTH BZ710304 753WSA0131 SHIELD,COVER HEAD AMP BZ710271
761WPA0196 HOLDER,DECK BZ710251 800WFA0037 CUSHION 15x5xT=6 BZ710252
800WFA0038 CUSHION 10x10xT=2...

[Page 57: Chassis Replacement Parts List](#)

CHASSIS REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description BZ610096
A550A3A420A DECK ASSY A550A3A420A BZ710073 85OA500022 AHC ASS'Y BZ710193
85OP200290 BELT,CAPSTAN (S) BZ710132 85OP900710 LEVER,REC BZ710094 85OP500083
BASE,AC HEAD BZ710112 85OP800324 SPRING,AC HEAD BZ710194 85OA000367 MAIN
CHASSIS ASS'Y (S-Z) BZ710195 85OA200082 CLUTCH ASS'Y(S2)

[Page 58](#) CHASSIS REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description

BZ710048 8107126A04 SCREW,TAP TITE(S) PAN 2.6x10 BZ710049 8107226804 SCREW,TAP TITE(S) BIND 2.6x8 BZ710017 8107226604 SCREW,TAP TITE(S) BIND 2.6x6 BZ710050 8109126604 SCREW,TAP TITE(B) PAN 2.6x6 BZ710052 810A126804 SCREW/WASHER(A) M2.6x8 BZ710053 810B126404 SCREW/WASHER(B) M2.6x4...

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

ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description
RESISTORS ! R415 BZ210069 R426T22R2F R,METAL 2.2 OHM 1/2W ! R420 BZ210070 R801R7822F 8.2K OHM 1/10W R422 BZ210071 R3X28B4R7J R,METAL OXIDE 4.7 OHM 3W ! R439 BZ210072 R801R7223F 22K OHM 1/10W ! R440 BZ210073 R801R7513J...

[Page 60](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description
DIODES D523 BZ410006 D1VT001330 DIODE,SILICON 1SS133T-77 D528 BZ410021 D97U05R61B DIODE,ZENER MTZJ5.6B T-77 D529 BZ410006 D1VT001330 DIODE,SILICON 1SS133T-77 D601 BZ410006 D1VT001330 DIODE,SILICON 1SS133T-77 D602 BZ410058 D97U08R21B DIODE,ZENER MTZJ8.2B T-77 ! D605 BZ410059 D2WT11ES10 DIODE,SILICON...

[Page 61](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description
TRANSISTORS Q1006 BZ510020 TNYJB05001 COMPOUND TRANSISTOR DTC114EKAT146 Q1009 BZ410003 0002G00550 PHOTO COUPLER GP1S94L Q1013 BZ410042 0000100380 PHOTO TRANSISTOR PNA2604M010R Q1023 BZ510002 T8YJ2412K0 TRANSISTOR,SILICON 2SC2412KT146 R,S Q1024 BZ510019 TNYJA05001 COMPOUND TRANSISTOR DTC143EKAT146 Q4001 BZ510033...

[Page 62](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description
MISCELLANEOUS CD351 BZ614131 06CH27091A CORD CONNECTOR CH27091A CD352 BZ614132 06CH25093A CORD CONNECTOR CH25093A CD353 BZ614096 06CH12426A CORD CONNECTOR CH12426A ! CD501 BZ614053 120R614909 CORD,AC 0R614909 CD503 BZ614133 069X620040 CONNECTOR JM-2BK-61 CD801 BZ614007...

[Page 63](#) TOSHIBA VIDEO PRODUCTS PTE. LTD. 438B ALEXANDRA ROAD, BLOCK B #06-01 ALEXANDRA TECHNOPARK SINGAPORE 119968...