

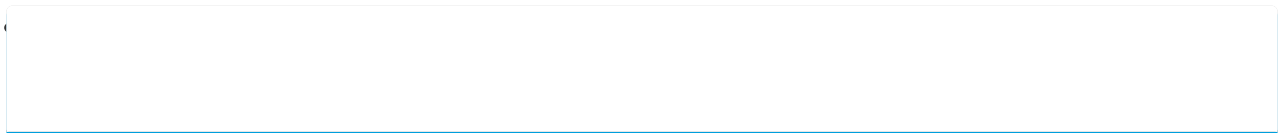
TOSHIBA

Toshiba SD-42HKSB Service Manual

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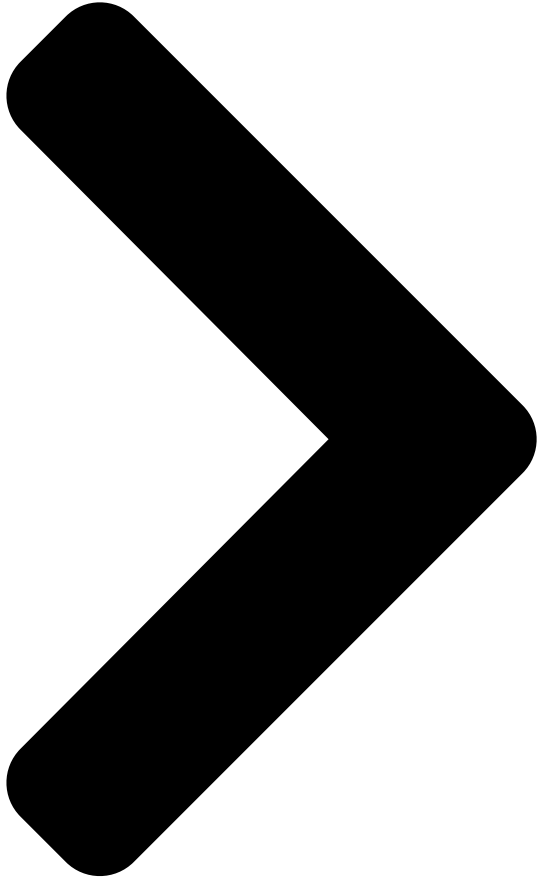
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FILE NO. 810-200217

SERVICE **TOSHIBA**
DVD RECEIVER
SD-42HKSB



SD-42HKSE

TOSHIBA

OCT., 2002

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[Receiver Toshiba SD-43HT Brochure & Specs](#)

Brochure (2 pages)

[Receiver Toshiba SD-6109C Owner's Manual](#)

Toshiba sd-6109c: user guide (69 pages)

[Receiver Toshiba SD-6109C Owner's Manual](#)

(68 pages)

[Receiver Toshiba SA-750 Manual](#)

Am/em stereo receiver (14 pages)

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Digital high definition receiver (40 pages)

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SECTION 2-1. GENERAL PART SERVICING PRECAUTIONS NOTES REGARDING HANDLING OF THE PICK-UP 1. Notes for transport and storage 1) The pick-up should always be left in its conductive bag until immediately prior to use. 2) The pick-up should never be subjected to external pressure or impact. Storage in conductive bag Drop impact 2.

[Page 33](#) NOTES REGARDING COMPACT DISC PLAYER REPAIRS 1. Preparations 1) Compact disc players incorporate a great many ICs as well as the pick-up (laser diode). These components are sensitive to, and easily affected by, static electricity. If such static electricity is high voltage, components can be damaged, and for that reason components should be handled with care.

[Page 34: Esd Precautions](#)

ESD PRECAUTIONS Electrostatically Sensitive Devices (ESD) Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive Devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

[Page 35: Section 2-2. Audio Part](#)

SECTION 2-2. AUDIO PART ELECTRICAL TROUBLESHOOTING GUDIE Turn power on. Check power supply circuit. Is power on? Check laser circuit. Does initial read work? Check focus circuit. Check disc. Does it play? Check tracking servo circuit. Check audio circuit. Does it output audio? - 2-5 -...

[Page 36](#) 2. AUDIO μ. COM Circuit POWER ON Does Video1/2 Does CD/DVD FM 87.5 appear appear at FLT? at FLD? Does it appear Does LOADING DVD Error at appear at FLD? FLD? Check Does no Disc or Connector(PN103)if Reconnect it. Time appear at FLD? is normally.

[Page 37](#) 3. Front Circuit (1/2) POWER ON Check if Reconnect it. LED OFF. the PN101/PN102 is OK. Check if the Is digitron Refer to SMPS Part. Front power is on normally? OK(*1). Check if all Buttons are OK. Check if the Volume is Check if the Headphone is...

[Page 38](#) Front Circuit (2/2) Check Refer to Check if the if the Power part of the Refer to SMPS. power(SMPS). Power part of the Front is OK. Front is OK. Check if Check if R027~R036 PN101 pin 12, 13 Waverfrom Refer to Micom Replace R027~R036 Circuit Check if...

[Page 39: Dvd Player Program Download Method](#)

DVD PLAYER PROGRAM DOWNLOAD METHOD 1. DVD player without CD-RW option 1-1) Download the DVD program from your PC as following procedure ACTION FLD display • Plug the Power cord out • Connect the Fixture for download (Refer to Deck Mechanism Adjustment) •...

[Page 40: Repeat](#)

2-2) Insert the upgrade Disc into the DVD player slot, then the DVD player reads the Disc and upgrade the Firmware itself as followings Status FLD display on DVD player • Detect the upgrade Disc No display • Read the Disc Cd rEAD XX(XX: Program counter) •...

[Page 41: Waveforms Of Major Check Point](#)

WAVEFORMS OF MAJOR CHECK POINT 2V/Div. 2V/Div. 500nS/Div. 500nS/Div. • IC 208 pin • IC 208 pin • Serial data clock waveform during normal play. • Serial data output waveform during normal play. 2V/Div. 2V/Div. 500nS/Div. 500nS/Div. • IC 201 pin •...

[Page 42: Internal Block Diagram Of Ics](#)

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[Page 43](#) ■ CS8415A ■ NJU7312A ■ NJM2279 - 2-13 -...

[Page 44: Ic Voltage Sheet](#)

IC VOLTAGE SHEET ■ NJM 2279 ■ CS8415 ■ STA505 (IC102) (IC206) (IC710, IC730, IC750, IC770) PIN No. Volt(V) PIN No. Volt(V) PIN No. Volt(V) PIN No. Volt(V) ■ PS9702B (IC301) PIN No. Volt(V) PIN No. Volt(V) PIN No. Volt(V) PIN No. Volt(V) 3.21 2.92 3.21...

[Page 45](#) ■ LC87F67 (IC101) PIN No. Volt(V) PIN No. Volt(V) PIN No. Volt(V) PIN No. Volt(V) PIN No. Volt(V) 2.45 -3.25 1.02 -3.25 1.63 -3.25 4.96 -17.71 -3.25 5.19 4.97 1.27 4.98 3.23 -14.91 4.98 1.21 1.31 4.79 -3.23 1.83 -3.23 4.85 -3.23 4.79 -3.23 4.99 4.86...

[Page 46](#) ■ PN902, CN902 ■ PN901, CN901 ■ IC910 ■ IC921 PIN No. Volt(V) PIN No. Volt(V) PIN No. Volt(V) PIN No. Volt(V) 27.6 27.6 27.6 16.9 ■ IC911 ■ IC922 PIN No. Volt(V) PIN No. Volt(V) ■ IC923 ■ IC924 ■...

[Page 47: Bottom View](#)

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[Page 48](#) ■ DECK MECHANISM DISASSEMBLY HOLDER CLAMP PLATE CLAMP CLAMP ASSEMBLY DISC TRAY DISC MAGNET CLAMP CLAMP UPPER (S1) (S1) HOLDER CLAMP BASE MAIN (Fig. A) EMERGENCY EJECT HOLE BASE MAIN (L1) LEVER (L1) HOLDER CLAMP BASE MAIN BOTTOM SIDE VIEW Fig.

[Page 49](#) (L2) GEAR ASSEMBLY FEED GEAR MIDDLE (S2) GEAR ASSEMBLY RACK (S2) (S3) (S2) PICK UP ASSEMBLY GENERAL BASE PU(OUTSERT) (C1) (S2) RUBBER REAR GEAR ASSEMBLY FEED PICK UP ASSEMBLY GENERAL GEAR MIDDLE GAER ASSEMBLY RACK MOTOR ASSEMBLY SPINDLE MOTOR ASSEMBLY SPINDLE Fig.

[Page 50](#) GUIDE UP/DOWN GEAR LOADING (L3) (L6) GEAR PULLEY (L6) (L4) BASE MAIN BELT LOADING (H1) PWB ASSEMBLY LOADING (L6) (S5) BASE MAIN FRAME ASSEMBLY UP/DOWN (S4) (L5) FIG. (A) GUIDE UP/DOWN FIG. (B) GUIDE UP/DOWN GUIDE UP/DOWN FIG. (C) Fig. 4-4 5.

[Page 51](#) SECTION 2-5. EXPLODED VIEWS • CABINET AND MAIN FRAME SECTION NOTE) Refer to "SECTION 2-7 REPLACEMENT PARTS LIST" in order to look for the part number of each part. TUNER 2-73 2-74...

[Page 52](#) • Deck Mechanism Exploded View LOCA.NO. PART NO DESCRIPTION SPECIFICATION 6721RJ0354A DECK ASSEMBLY,VIDEO DP-5RM MULTI -HZ 4861R-0006B CLAMP ASSEMBLY DISC(DP2)-SH 3041R-0057A BASE ASSEMBLY MAIN(DP-4R MULTI)-HZ 3041R-D001A BASE ASSEMBLY DP5 MULTI (SLED)- HZ 3300R-0547A PLATE CLAMP 5016H-1016B MAGNET CLAMP(LDM-R608,10*5,1*1.5T) 4860R-0006A CLAMP UPPER 4930R-0171A HOLDER...

[Page 53](#) ASSY FE-3636TE TOSHIBA 6400RMSC02B SPEAKER,FULLRANGE MSF-30SB30L-1 SAMMI FULL-RANGE 3720RMF026B PANEL,FRONT FRONT FE-3636TE TOSHIBA (FE-36 3110RM0009B CASE REAR FE-3636TE TOSHIBA MOLD (F 6871RU4116B PWB(PCB)

ASSEMBLY,SUBSET(AUDIO FE-3620TE 2P NEW TERMINAL 150M 6871RU4117E PWB(PCB)
ASSEMBLY,SUBSET(AUDIO FE-3620TE HOUSING +0.16 11C 5M 6871RU4117F PWB(PCB)
ASSEMBLY,SUBSET(AUDIO FE-3620TE HOUSING +0.16 11C 10...

[Page 54](#) DUCT FE-3620WE 320X10X1T BLACK 3091RMW010D CABINET ASSEMBLY
ASSY,FE-3620WE BF/BB PB 9T CAB 6400RMSJ02B SPEAKER,WOOFER CW-165B30L-1 SAMMI
WOOFER 3620 3701RM0005D NET ASSEMBLY ASSY, FE-3636WE TOSHIBA 6871RU3091D
PWB(PCB) ASSEMBLY,SUBSET(AUDIO FE-3620WE HOUSING +AWG 24 2.5M 353M050C SCREW
BH 3.5X16 FBK - 2-78 -...

[Page 55](#) SCREW, +D2.0 6MM SWRCH16A/NIY 4.5MM 79097902 1SZZR-0011A SCREW,
MACHINE 79097544 3829RDT017D MANUAL ASSEMBLY,OWNERS OWNERS DA-3636AD JA3GTTS,
SD-42HKSE 79097545 3829RDT017E MANUAL ASSEMBLY,OWNERS OWNERS DA-3636AD
JA4UTTS, SD-42HKS B 79098903 564-017B PLUG ASSY PHONO CORD 1WAY (YL) 79098904
564-018B PLUG ASSY PHONO CORD 2WAY (RD/WH) 79097555 5010R-L002B...

[Page 56](#) Location Part No. LG PART NO. Description C231 79092020 0CH1472K562
CAPACITOR,CHIP[CERAMIC M/L HD 4700PF 50V K X7R(X) 1608 R/TP C232 79097104
0CE1064F638 CAPACITOR,ELECTROLYTIC 10M SRA 16V M FM5 TP(5) C233 79092013
0CH1103K562 CAPACITOR,FIXED CERAMIC(Temp.c 0.01UF 50V 10% X7R(X) 1608 R/T C237
79092014 0CH1104K942...

[Page 57](#) Location Part No. LG PART NO. Description C2M6 79092014 0CH1104K942
CAPACITOR,CHIP[CERAMIC M/L HD 0.1UF 50V Z Y5V(F) 1508 R/TP C2M7 79092014
0CH1104K942 CAPACITOR,CHIP[CERAMIC M/L HD 0.1UF 50V Z Y5V(F) 1508 R/TP C2M8
79092014 0CH1104K942 CAPACITOR,CHIP[CERAMIC M/L HD 0.1UF 50V Z Y5V(F) 1508 R/TP
C2M9 79092014 0CH1104K942...

[Page 58](#) Location Part No. LG PART NO. Description C532 79092014 0CH1104K942
CAPACITOR,CHIP[CERAMIC M/L HD 0.1UF 50V Z Y5V(F) 1508 R/TP C533 79092014
0CH1104K942 CAPACITOR,CHIP[CERAMIC M/L HD 0.1UF 50V Z Y5V(F) 1508 R/TP C534
79092014 0CH1104K942 CAPACITOR,CHIP[CERAMIC M/L HD 0.1UF 50V Z Y5V(F) 1508 R/TP
C535 79092014 0CH1104K942...

[Page 59](#) 0IEB121616B ELITE MEMORY TECHNOLOGY M12L16161A-7T-L 50PIN TSOP TRA
IC205 79097516 0ICB422800B IC, IC,CRYSTAL SEMICONDUCTOR CS4228A-KSR 28 SSOP R/TP
24BIT IC206 79094027 GITO704000F IC,TOSHIBA TC7W04FU IC206 79097517 0ICB841500B
IC,CRYSTAL SEMICONDUCTOR CS8415A-CZR 28P TSSOP R/TP 96K IC207 79097519
0IFA742440H IC,FAIRCHILD 74VHC244MTCX 20 TSSOP R/TP LIN...

[Page 60](#) 0ISS791200A SAMSUNG SEMICONDUCTOR KA7912 ST REGULATOR IC JK001
79097570 6612R-A002A JACK,HEADPHONE J35G PARK ELEC. ST BLACK JK201 79097573 6612R-
L002A JACK,FIBER OPTIC TORX178 TOSHIBA JK601 79097571 6612R-C006Y JACK,RCA
MJ01-13011G DONGBO DA-3620 JK602 79097558 576-005B JACK,RCA RCA S-440B PARK ELEC-
1P YL...

[Page 61](#) Location Part No. LG PART NO. Description Q002 79098776 0TR103009AF
TRANSISTOR KRA103M-TP (KRA2206) KEC Q101 79098775 0TR103009AE TRANSISTOR
KRC103M-TP (KRC1206) KEC Q102 79097531 0TR102009AE TRANSISTOR KRA102M (KRA2205)
TP KEC TO Q2A1 79095002 0TR103709BB TRANSISTOR 2SA1040K-Q CHIP ROHM-J Q2A2
79095002 0TR103709BB TRANSISTOR 2SA1040K-Q CHIP ROHM-J Q2A5 79098781...

[Page 62](#) Location Part No. LG PART NO. Description R155 79093027 0RH1000C622
RESISTOR,METAL GLAZED(CHIP) 100 OHM 1 / 16 W 1608 5.03% D R156 79093029
0RH1002C622 RESISTOR,METAL GLAZED(CHIP) 10K OHM 1 / 16 W 1608 5.03% D R157
79093029 0RH1002C622 RESISTOR,METAL GLAZED(CHIP) 10K OHM 1 / 16 W 1608 5.03% D
R158 79093029...

[Page 63](#) Location Part No. LG PART NO. Description R269 79093020 0RH0000C622
RESISTOR,METAL GLAZED(CHIP) 0 OHM 1 / 16 W 1608 5.03% D R270 79093057 0RH1500C622
RESISTOR,METAL GLAZED(CHIP) 150 OHM 1 / 16 W 1608 5.03% D R273 79093034
0RH1501C622 RESISTOR,METAL GLAZED(CHIP) 1.5K OHM 1 / 16 W 1608 5.03% D R274
79093048 0RH6200C622...

[Page 64](#) Location Part No. LG PART NO. Description R2N8 79093029 0RH1002C622

RESISTOR,METAL GLAZED(CHIP) 10K OHM 1 / 16 W 1608 5.03% D R2N9 79093029
0RH1002C622 RESISTOR,METAL GLAZED(CHIP) 10K OHM 1 / 16 W 1608 5.03% D R2P0
79093045 0RH4701C622 RESISTOR,METAL GLAZED(CHIP) 4.7K OHM 1 / 16 W 1608 5.03% D
R2P1 79093029 0RH1002C622...

[Page 65](#) Location Part No. LG PART NO. Description R3F2 79093028 0RH1001C622
RESISTOR,METAL GLAZED(CHIP) 1K OHM 1 / 16 W 1608 5.03% D R3F3 79093020 0RH0000C622
RESISTOR,METAL GLAZED(CHIP) 0 OHM 1 / 16 W 1608 5.03% D R3F4 79093029 0RH1002C622
RESISTOR,METAL GLAZED(CHIP) 10K OHM 1 / 16 W 1608 5.03% D R3F5 79093029...

[Page 66](#) Location Part No. LG PART NO. Description R565 79093027 0RH1000C622
RESISTOR,METAL GLAZED(CHIP) 100 OHM 1 / 16 W 1608 5.03% D R566 79093027
0RH1000C622 RESISTOR,METAL GLAZED(CHIP) 100 OHM 1 / 16 W 1608 5.03% D R567
79093021 0RH0102C622 RESISTOR,METAL GLAZED(CHIP) 10 OHM 1 / 16 W 1608 5.03% D R568
79093021...

[Page 67](#) Location Part No. LG PART NO. Description ZD601 79097514 0DZ510009AH
DIODE,ZENER GDZJ5.1B TP GRANDE DO-34 503MW ZD910 79097513 0DZ470009AD
DIODE,ZENER GDZJ4.7B TP GRANDE DO34 503MW ZD971 79097512 0DZ330009AR
DIODE,ZENERS GDZJ33D GRANDE TP52 - - 33V 8U ZD972 79097514 0DZ510009AH
DIODE,ZENER GDZJ5.1B TP GRANDE DO-34 503MW ZD973 79097514 0DZ510009AH...

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VOLUME ON/STANDBY FUNCTION TUNING/SKIP MEMORY FM/AM MONO/ST. ENTER PHONES OCT.,
2002...

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[Page 81: Section 2-3. Dvd Part](#)

SECTION 2-3. DVD PART ELECTRICAL TROUBLESHOOTING GUIDE 1. μ -COM Circuit A. No Power
POWER ON Does CD/DVD appear at FLD? Is P5101 Does no DISC appear? connected normally?
Reconnect it. Does Logo appear Check power. on the screen? (Refer to power) If power is

normal Is P5501 Pin8 normal?

[Page 82](#) B. Audio abnormal C. Video abnormal AUDIO ABNORMAL VIDEO ABNORMAL Check Audio jack. Check Video jack. YES (If OK) YES (If OK) Check MPEG_CLK Signal Refer to Video part. of MPEG part. YES (If OK) YES (If OK) Refer to Audio part. Refer to MPEG part.

[Page 83](#) E. Picture abnormal PICTURE ABNORMAL Check the disc. Refer to Servo part If OK Check MPEG_CLK Signal of MPEG part YES (If OK) Check DSP YES (If OK) Check MPEG YES (If OK) Replace B/D F. Disc Error DISC ERROR Check Disc YES (If OK) Refer to Servo part...

[Page 84](#) 2. MPEG Circuit Power is on Does Logo appear Check power & clock. on the screen? Does the Check CD/DVD DSP output moving picture of the DVD Disc Is MPEG data signal normal? play on the screen signal. normally? Check MPEG Decoder input signal.

[Page 85](#) 3. RF/Servo Circuit CHECK POINT(General) Does signal goes "High" to IC201 Pin186 when the power is on? Does signal pulse Check "2.μ-COM Part". input to IC201 Pins53, 54 when the power is on? Does Does Replace X201 or IC206 TTL pulse output to 33.8688MHz clock input IC201 Pin156? (33MHz clock defect)

[Page 86](#) No disc .Power on Check loading Part. Push Pick-up to inner track to Does tray open or close? the end by hand. Does DECK assembly is defective. PMD03 Pin10 change (Limit sw) high to low? Pressing the open/close key repeatedly, check the voltage of IC2M1 check μ-COM Part.

[Page 87](#) DISC IN OPEN/CLOSE Fig.3. FOCUS ERROR waveform Check Check IC2A1 Pins47,50,51,52 the focus error moving the FOCUS ON? lens up and down. in DVD Mode (IC2A1 Pin39) IC201 no output : Pick-up is defective. Does the TTL level change at IC201 Replace IC201.

[Page 88](#) CHECK A Fig.5. RF waveform Check RF Eye-Pattern. No signal: Pick-up is defective Check IC2A1 Pin3. RF : 1.5-1.6V(TP2A0) Does the sawtooth waveform emit Is the eye-pattern vivid? Does the 1.6V emit? Replace IC2A1. at IC2A1 Pin36? Replace IC201. Check IC201 Pin84. No signal at IC201 : IC201 is defective •...

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WAVEFORMS Stop : 2.50MS/s 4 Acqs M20.0 s Glitch Ch1 500mV IC2A1 Pin 42, Focus Error IC2A1 Pin 41 IC2A1 Pin 41 IC501 Pin 118, Composite IC501 Pin 112, Chrominance IC501 Pin 114, Luminance IC2A1 Pin 36, Pi Tracking Error VBR TRACKING Error (Super video out Mode) (Super video out Mode)

[Page 98](#) • CIRCUIT VOLTAGE CHART IC203 IC201 IC301 IC3F1 IC501 IC305 IC2A1 IC2M1 IC203 IC201 IC301 IC3F1 IC501 IC305 IC2A1 IC2M1 PIN STOP PLAY STOP PLAY STOP PLAY STOP PLAY STOP PLAY STOP PLAY STOP PLAY STOP PLAY PIN STOP PLAY STOP PLAY STOP PLAY STOP PLAY STOP PLAY STOP PLAY STOP PLAY STOP

PLAY PIN STOP PLAY STOP PLAY STOP PLAY STOP PLAY STOP PLAY STOP PLAY STOP PLAY STOP
PLAY 3.18...

[Page 99](#) IC901 IC451 IC401 IC454 IC453 IC452 IC402 IC801 IC503 IC502 IC2A4 IC2A2 IC206
IC504 IC506 PIN STOP PLAY STOP PLAY STOP PLAY STOP PLAY STOP PLAY STOP PLAY STOP PLAY
STOP PLAY PIN STOP PLAY STOP PLAY STOP PLAY STOP PLAY STOP PLAY STOP PLAY STOP PLAY
2.98 2.98 5.51 5.51 5.41 5.42...

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PRINTED CIRCUIT DIAGRAM • DVD P.C. BOARD(SOLDER SIDE) 2-65 2-66...

[Page 101](#) • DVD P.C. BOARD(COMPONENT SIDE) 2-67 2-68...

[Page 102](#) MEMO MEMO...

This manual is also suitable for:

[Sd-42hkse](#)