



Toshiba RD-XS35SU Service Manual

Hdd/dvd video recorder

1

2

3

4

Table Of Contents

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

•

[Table of Contents](#)

•

Bookmarks

Quick Links

[1 Parts List](#)

[Download this manual](#)

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SERVICE MANUAL **TOSHIBA** HDD/DVD VIDEO RECORDER

The above models are classified as green products (*1), as indicated by the underlined serial numbers.
This Service Manual describes replacement parts for the green products. When repairing these green product(s), use the part(s) described in this manual and lead-free solder (*2).

For (*1) and (*2), see the next page.

DIGITAL VIDEO



RD-XS35SU

RD-XS35SC

FILE NO. 810-200622GR

Mar., 2006 GREEN

[Table of Contents](#)

[Next Page](#)

1
2
3
4
5

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Hdd/dvd (169 pages)

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(175 pages)

[DVR Toshiba RD-XS30SB Service Manual](#)

Hdd/dvd video recorder (54 pages)

Summary of Contents for Toshiba RD-XS35SU

[Page 1](#) FILE NO. 810-200622GR SERVICE MANUAL DIGITAL VIDEO HDD/DVD VIDEO RECORDER RD-XS35SU RD-XS35SC The above models are classified as green products (*1), as indicated by the underlined serial numbers. This Service Manual describes replacement parts for the green products. When repairing these green product(s), use the part(s) described in this manual and lead-free solder (*2).

[Page 2](#) 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.

[Page 3](#) **LASER BEAM CAUTION LABEL** When the power supply is being turned on, you may not remove this laser cautions label. If it removes, radiation of a laser may be received. **PREPARATION OF SERVICING Pickup Head** consists of a laser diode that is very susceptible to external static electricity. Although it operates properly after replacement, if it was subject to electrostatic discharge during replacement, its life might be shortened.

[Page 4: Safety Notice](#)

SAFETY NOTICE SAFETY PRECAUTIONS LEAKAGE CURRENT CHECK Measure the AC voltage across the 1500 Ω resistor. Plug the AC line cord directly into a 120V AC outlet (do not use an isolation transformer for this check). Use an The test must be conducted with the AC switch on and AC voltmeter, having 5000 Ω...

[Page 5: Table Of Contents](#)

CONTENTS SECTION 1 GENERAL DESCRIPTIONS 1. OPERATING INSTRUCTIONS 2. LOCATION OF MAIN PARTS 2-1. Location of Main Parts 2-2. Location of PC Boards SECTION 2 PART REPLACEMENT AND ADJUSTMENT PROCEDURES 1. REPLACEMENT OF MECHANICAL PARTS 1-2. PC Board Replacement 1-1. Cabinet Replacement 1-2-1.

[Page 6: Operating Instructions](#)

SECTION 1 GENERAL DESCRIPTIONS 1. OPERATING INSTRUCTIONS Please refer to the owner's manual about the contents.

[Page 7](#) **2. LOCATION OF MAIN PARTS 2-1. Location of Main Parts RAM1 RAM DRIVE ZG45 FAN HDD1 HDD UNIT Fig. 1-2-1 2-2. Location of PC Boards EU82 Tuner Unit PC Board EU01 Digital PC Board Board EU05 Mother PC Board EU03B Front (L) PC Board EU55 Front (Jack) PC Board...**

[Page 8: Replacement Of Mechanical Parts](#)

SECTION 2 PART REPLACEMENT AND ADJUSTMENT PROCEDURES CAUTIONS BEFORE STARTING PART REPLACEMENT Electronic parts are susceptible to static electricity and may easily damaged, so do not forget to ground as required. Many screws are used inside the unit. To prevent the screws from missing or dropping, etc. always use a magnetized screwdriver in servicing.

[Page 9: Hdd](#)

1-1-2. **HDD 1.** Remove the top cover. (Refer to item 1-1-1.) 2. Remove two tapes (1). 3. Remove four screws (2). 4. Disconnect the flexible cable (3) and the connector (4). 5. Remove four screws (5), then remove the damper (7) and HDD (8) from the bracket (6). Note: •...

[Page 10: Front Panel](#)

1-1-3. **Front Panel 1.** Remove the top cover. (Refer to item 1-1-1.) 2. Remove the tape (1). 3. Disconnect two connectors (2) and two flexible cables (3). 4. Remove two screws (4), four claws, then remove the front panel (5). Note: •...

[Page 11](#) 1-1-4. **RAM Drive 1.** Remove the top cover. (Refer to item 1-1-1.) 2. Remove the HDD. (Refer to item 1-1-2.) 3. Remove the front panel. (Refer to item 1-1-3.) 4. Remove two tapes (1). 5. Disconnect two flexible cables (2) and the connector (3). 6.

[Page 12: Rear Panel](#)

1-1-5. **Rear Panel 1.** Remove the top cover. (Refer to item 1-1-1.) 2. Remove the screw (1), screw (2), and five screws (3). 3. Remove the bushing of the power plug (4). 4. Remove two claws, then remove the rear panel (5). 5.

[Page 13](#) 1-2. **PC Board Replacement 1-2-1. Tuner Unit PC Board 1.** Remove the top cover. (Refer to item 1-1-1.) 2. Disconnect the flexible cable (1). 3. Remove the screw (2), screw (3), then remove the Tuner Unit PC board (4). Tuner Unit PC board (4) Screw (3) Screw (2) Flexible cable (1)

[Page 14](#) 1-2-3. **Mother PC Board 1.** Remove the top cover. (Refer to item 1-1-1.) 2. Remove the front panel. (Refer to item 1-1-3.) 3. Remove the rear panel. (Refer to item 1-1-5.) 4.

Remove the Tuner Unit PC board. (Refer to item 1-2-1.) 5.

[Page 15](#) 1-2-4. Power PC Board Cautions : • Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type. 1. Remove the top cover. (Refer to item 1-1-1.) 2. Remove the HDD. (Refer to item 1-1-2.) 3.

[Page 16](#) 1-2-5. Front (R), Front (L), and Front (Jack) PC Boards 1. Remove the top cover. (Refer to item 1-1-1.) 2. Remove the front panel. (Refer to item 1-1-3.) 3. Remove four screws (1), then remove the stay (2). 4. Remove three screws (3), then remove the Front (R) PC board (4). 5.

[Page 17: Fan](#)

2. WIRING CONNECTION DIAGRAM After the servicing is complete, return the wiring to its original state by using the below diagram as a reference. Tuner Unit PC Board Power PC Board Mother PC Board W003 Digital PC Board W005 W006 W202 W201 W301...

[Page 18: Circuit Symbols And Supplementary Explanation](#)

SECTION 3 SERVICING DIAGRAMS 1. CIRCUIT SYMBOLS AND SUPPLEMENTARY EXPLANATION 1-1. Precautions for Part Replacement • In the schematic diagram, parts marked (ex. • Using the parts other than those specified shall violate the regulations, and may cause troubles such as F801) are critical part to meet the safety regulations, so operation failures, fire etc.

[Page 19: Inductor Indication](#)

1-4. Inductor Indication Eg. 4 ... H Unit None μ ... μ H ... mH Tolerance None ... $\pm 5\%$... $\pm 0.1\%$... $\pm 0.25\%$... $\pm 0.5\%$... $\pm 1\%$... $\pm 2\%$ Type name ... $\pm 10\%$... $\pm 20\%$ Fig. 3-1-4 1-5. Waveform and Voltage Measurement Eg.

[Page 20: Printed Wiring Board And Schematic Diagram](#)

2. PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM W100 W101R W101L FL_5V Power_SW Power_SW PARALLEL EVER+5V Power_LED Power_LED Ever5V Ever5V FL(-) FL(+) W101 Play_LED Play_LED FRONT RIGHT FRONT LEFT W102R W102L PARALLEL REC_LED REC_LED FRONT JACK LEADS CABLE HDD_LED HDD_LED W102 DVD_LED DVD_LED Door_SW...

[Page 21: Block Diagrams](#)

3. BLOCK DIAGRAMS 3-1. Overall Block Diagram Type: DAV-WR542 DVD Recorder Drive 27MHz 24.576MHz 160GB Hard Disk Drive IC306 IC901 Audio LPF & Amplifier Audio OUT_1 D/A Converter ANALOG S-in PCM1755 CIRCUIT ICX01 C_Video-in Video uPD61181F1-181-MN2-A Audio-in L/R (Video Signal) INPUT Line OPTICAL.

[Page 22: Circuit Diagrams](#)

4. CIRCUIT DIAGRAMS 4-1. Power Supply Circuit Diagram Fig. 3-4-1...

[Page 23: Front Circuit Diagram](#)

4-2. Front Circuit Diagram 4-2-1. Front Circuit Diagram (L/R) Fig. 3-4-2...

[Page 24](#) 4-2-2. Front Jack Circuit Diagram Fig. 3-4-3...

[Page 25](#) 4-3. Digital Circuit Diagram 4-3-1. Digital 1 Circuit Diagram Tantalum capacitor Tantalum capacitor Tantalum capacitor Tantalum capacitor Place these parts together. Place these parts together. Fig. 3-4-4...

[Page 26](#) 4-3. Digital Circuit Diagram 4-3-1. Digital 1 Circuit Diagram...

[Page 27](#) Tantalum capacitor Tantalum capacitor Tantalum capacitor Tantalum capacitor...

[Page 28](#) pacitor pacitor Tantalum capacitor...

[Page 32](#) Place these parts together.

[Page 33](#) Place these parts together. Fig. 3-4-4...

[Page 34](#) 4-3-2. Digital 2 Circuit Diagram Fig. 3-4-5...

[Page 35](#) 4-4. Mother Circuit Diagram 4-4-1. Tuner Circuit Diagram Fig. 3-4-6...

[Page 36](#) 4-4-2. Audio Circuit Diagram Fig. 3-4-7...

[Page 37](#) 4-4-3. Timer Circuit Diagram Fig. 3-4-8...

[Page 38](#) 4-4-4. Video Circuit Diagram Fig. 3-4-9...

[Page 39](#) 4-5. Tuner Unit Circuit Diagram Fig. 3-4-10...

[Page 40](#) 5. PC BOARDS 5-1. Front Jack PC Board Fig. 3-5-1 EU55 Front Jack PC Board (Top side) Fig. 3-5-2 EU55 Front Jack PC Board (Bottom side)

[Page 41](#) 5-2. Front (L) PC Board Fig. 3-5-3 EU03B Front (L) PC Board (Top side) Fig. 3-5-4 EU03B Front (L) PC Board (Bottom side) 5-3. Front (R) PC Board Fig. 3-5-5 EU03A Front (R) PC Board (Top side) Fig. 3-5-6 EU03A Front (R) PC Board (Bottom side)

[Page 42](#) 5-4. Tuner Unit PC Board CNB01 JP005 JP001 Fig. 3-5-7 EU82 Tuner Unit PC Board (Top side) LB97 EB98 EB92 CB98 EB93 EB83 EB99 EB84 EB94 EB88 EB91 EB97 CB94 RB93 EB95 EB85 RB96 QB99 CB90 CB89 EB82 CB91 RB97 EB89EB90 EB79 EB87...

[Page 43](#) 5-5. Digital PC Board C606 L603 R330 R334 R333 R332 R331 FL303 L314 IC601 C608 C467 Q305 Q304 Q303 Q302 Q301 R603 C476 C477 C478 C218 C479 RM350 RM351 C480 C481 C217 C482 C483 C402 C335 C205 C484 R201 IC316 C485 R202 C486...

[Page 44](#) 5-6. Mother PC Board JP210 JP113 JP149 SDL03 CN901 JP264 JP261 JP175 JP035 JP013 JP173 JP292 JP244 JP174 JP204 JP140 JP003 JP007 C702 JP193 JP024 JP004 JP012 JP019 JP080 CB70 JP082 CNB02 LB11 JP171 JP084 X700 JP083 JP010 JP226 JP089 JP063 CA17 JP160...

[Page 45](#) E701 EB03 E750 EB02 E703 E716 E704 E734 IC701 EB08 E715 LB06 EB01 EB07 RA62 E733 TA18 E706 EB11 RA76 RA22 TA01 E707 E700 TA32 RA01 CA10 CB67 R708 EB65 TA28 E705 E708 LA11 CA48 EB68 EB67 R777 RA67 EB61 EB63 EB66 EB05...

[Page 46: Capacitor \(Cap\)](#)

SECTION 4 PARTS LIST SAFETY PRECAUTION The parts identified by ! () mark are critical for safety. Replace only with part number specified. The mounting position of replacement is to be identical with originals. The substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire or other hazards.

[Page 47: Exploded Views](#)

4. EXPLODED VIEWS 4-1. Packing Assembly ZF35 ZF01 ZF10 ZF11 ZF12 ZF13 Note: The shape of the packing material is sometimes different. Fig. 4-4-1...

[Page 48](#) 4-2. Chassis Assembly W006 ZG20 W301 EU01 EU82 MB01 W003 ZG45 EU05 EU02 HDD1 W501 W202 W005 RAM1 W203 ZG50 W002 EU55 EU03B W101 W001 W102 W201 EU03A ZG01 Fig. 4-4-2...

[Page 49: Parts List](#)

W301 P000463110 CABLE ZHR 5P-L130 FRONT/J-DIGITAL W501 P000463140 ATAPI-FFC CONV UNIT YKF43-0025 ZF01 P000432480 Remote Control Unit SE-R0144 ZF10 P000453930 OWNERS MANUAL,ST ENGLISH,RD-XS35SU/SC ZF10 P000453950 OWNERS MANUAL,ST FRENCH,RD-XS35SC ZF11 P000453940 OWNERS MANUAL,OP ENGLISH,RD-XS35SU/SC ZF11 P000453960 OWNERS MANUAL,OP FRENCH,RD-XS35SC ZF12 P000453970...

[Page 50](#) Location Part No. Description - ELECTRICAL PARTS - EU01 P000463250 PC BOARD ASSY DIGITAL,RD-XS35SU EU01 P000463310 PC BOARD ASSY DIGITAL,RD-XS35SC -

INTEGRATED CIRCUITS - IC303 P000463030 PQ025EZ01ZPH IC304 P000391290 PQ1X331M2ZPH
IC305 P000391240 NJM2125F(Te1) IC309 P000463080 SN74AHC1G08HDCKR IC310 79040306
PST594JMT IC317...

[Page 51](#) Location Part No. Description - MISCELLANEOUS - S105 P000391050 Switch,TACT
EVQ11G04M S107 P000391050 Switch,TACT EVQ11G04M S112 P000391050 Switch,TACT
EVQ11G04M S114 P000391050 Switch,TACT EVQ11G04M S115 P000391050 Switch,TACT
EVQ11G04M S116 P000391050 Switch,TACT EVQ11G04M S120 P000377940 Switch,MICRO
MPU11110MLB0 EU05 P000463280 PC BOARD ASSY MOTHER - INTEGRATED CIRCUITS - IC700...

[Page 52: Specifications](#)

SPECIFICATIONS Power requirement during operation Power requirement at standby 17.1W
(Front Display: on) 15.1W (Front Display: off) Power supply 120V AC, 60 Hz Mass 4.7kg External
dimension Width 430 x Height 58 x Depth 333mm Incoming channels TV : 2-69CH, Cable :
1-125CH Antenna input/output terminal VHF/UHF : 75Ω, F Connector Signal system...

[Page 53](#) 1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN...

This manual is also suitable for:

[Rd-xs35sc](#)