TOSHIBA

Toshiba SD-R1512 User Manual

Cd-rw/dvd-rom combo drive

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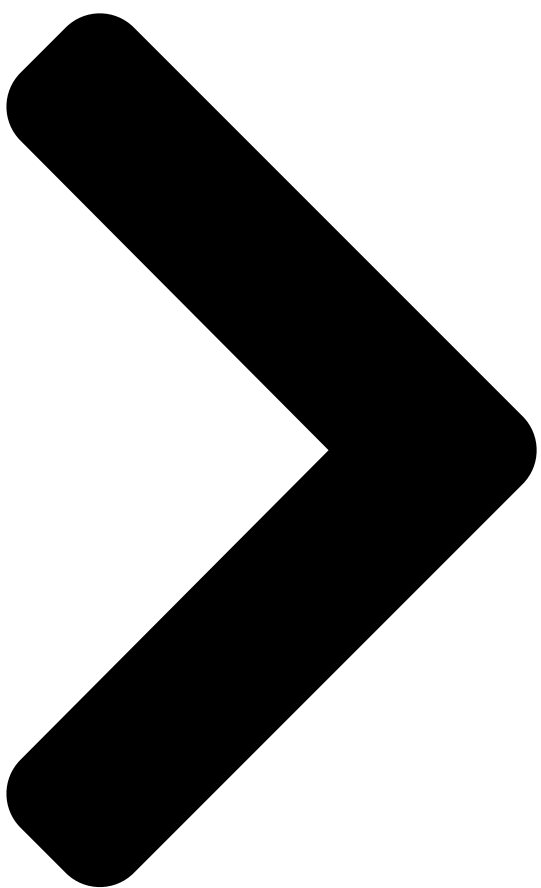
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TOSHIBA AMERICA INFORMATION SYSTEMS
STORAGE DEVICE DIVISION
IRVINE, CALIFORNIA

SD-R1512

CD-RW/DVD-ROM COMBO DRIVE

USER MANUAL

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Cd-rw/dvd-rom drive (12 pages)

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Cd-rw/dvd-rom combination mobile drive (12 pages)

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CD/CDR Drive Toshiba XM-6802B User Manual

Cd-rom drive (15 pages)

Summary of Contents for Toshiba SD-R1512

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Page 2: Table Of Contents

CONTENTS Introduction................1 Setup ....3 Using the Combo Drive ....6 Troubleshooting..............9 Specifications ....10 Drive Connectors..............14...

Page 3: Introduction

INTRODUCTION – SD-R1512 General Features Reads and records digital data on CD-R/-RW discs 3-way Disc Eject (eject button, software, emergency eject hole) Average Random Access Time 100ms DVD-ROM 120ms DVD-RAM 180ms Horizontal or Vertical Mount 2MByte Buffer Playback interchangeability for CD-ROM and DVD-ROM discs Regionalization (RPC2 compliance) (DVD) BUS Interface - ATAPI Types of Disc Formats Supported - Write...

Page 4 Front Panel Figure 1.SD-R1512 DVD Writeable Drive Front Panel Loading Load disc using tray. Tray The LED lights green or amber when the drive is operating (LED is amber when drive is Busy Light writing.) Eject The Eject button is used to open the disc tray so you can install or remove a disc. Button Emergency The emergency eject hole is to be used only when the Loading Tray will not open when...

Page 5: Setup

SETUP – SD-R1512 The following steps must be performed to properly install your drive: • Set Drive Jumper Settings • Connect Audio Cable • Attach IDE BUS Cable • Attach Power Cable • Mount Drive Jumper Settings The mode select jumpers are 6 straight angle pins located on the rear of the Combo drive. By placing a jumper on the pins, you can select the following functions: Drive is configured using host interface signal CSEL Configures drive as Slave...

Page 6 If the Combo drive is replacing a CD-ROM or DVD-ROM, remove drive presently

installed in your system. Your Toshiba Combo drive can be placed in any free half-height drive slot at the front of your computer. (It can be mounted horizontally or vertically.) Carefully start sliding the Combo drive into the opening with the disc tray facing the front of the computer.

Figure 6.Mounting Illustration Software Driver - Toshiba's optical drives do not require any unique device drivers for Windows '95/'98/2000/Me/XP/NT. After installing your drive and re-booting, your system should recognize your drive. Windows '95/'98/2000/Me/XP/NT Operating Systems support all Toshiba optical drives natively If you prefer using DOS, download the DOS ATAPI driver from our web site.

Page 8: Using The Combo Drive

USING THE DVD Combo Drive – SD-R1512 Drive Operation Inserting a Disc - Horizontally To insert a disc into a drive that is mounted horizontally, perform the following steps: Figure 1.Inserting Disc 1. Open the drive's Loading tray by pressing the Eject Button. 2.

Figure 2.Inserting Disc Vertically Removing a Disc To remove a disc from the Combo drive, perform the following steps: 1. Open the Loading Tray by pressing the Eject Button. 2. Slide disc holders away from disc. 3. Grasp disc by edges, and lift out of loading tray. 4.

Emergency Ejection CAUTION: The following procedure is intended only as a last resort when pressing the eject button fails to open the Loading Tray 1. Turn computer power OFF by properly shutting down system. 2. Insert a solid bar (i.e. large paper clip) into Emergency Eject hole and push in until loading tray opens.

Page 11: Troubleshooting

TROUBLESHOOTING – SD-R1512 Solution Problem • Disc tray cannot be opened Check that there is power to drive. • Use Emergency Eject instructions to open tray. • Drive is not recognized by system Is the drive connected properly? Are all cables plugged in properly (e.g. Power Cable, Interface Cable and Audio Cables).

Page 12: Specifications

SPECIFICATIONS –SD-R1512 General Interface: ATAPI Applicable Formats - Write: Formats for Writing Disc at once, Track at once, session at once, Packet Write, incremental write, restricted overwrite Applicable Write Disc – CD-DA, CD+(E)G, CD-MIDI, CD-ROM, CD-ROM XA, CD-I, MIXED MODE CD-R/-RW CD, CD-I Bridge (Photo-CD, Video-CD), Multi-session CD (Photo-CD, CD-Extra, Portfolio)

Performance Rotational Speed DVD-ROM (single layer) 7,580rpm (5.0 - 12X CAV) DVD-ROM (dual layer) 5,053rpm (3.3 - 8X CAV) DVD-R (Ver. 2.0) 2,780rpm (2 - 4.8X CAV) DVD-R (Ver. 1.0) 3,200rpm (2 - 4.8X CAV) DVD-RW (Ver 1.1) 2,780rpm (2 - 4.8X CAV) DVD-RAM (Ver.

Reliability MTBF 100,000 hours Power ON Hours 5,436 hours/year ON/OFF Cycles 313 cycles/year Number of Access 600,000 accesses/year Operating Duty Cycle 20% of Power ON time (Reading/Seeking) 2% of Power ON time (Writing/Seeking) MTTR 0.5 hours Environmental Ambient Temperature Operating 5°...

Connectors DC input 4-pin Power Supply Connector ATAPI Interface Connector 40 Pin I/F ATAPI Standard Audio Connectors 4-pin and 2-pin connector (use matching housing, Part No. 70066, made by Molex Corp, or equivalent) Regulatory The SD-R1512 Combo drive has been certified by the following regulatory agencies: •...

Page 16: Drive Connectors

DRIVE CONNECTORS –SD-R1512 Figure 1.SD-R1512 Combo Drive Rear Panel - Connectors Power Power is supplied to your DVD drive by the connection with your computer's +5V/+12V power cable to the power socket at the back of drive. One side of the plug has chamfered Connector edges, so the power connector fits only one way CAUTION: Severe damage to the Drive circuits may occur if power cable is plugged in...

Table 1.Interface Pin Assignments INTERFACE PIN ASSIGNMENT SIGNAL HOST SIGNAL NAME SIGNAL HOST SIGNAL NAME NAME NAME Reset Host Reset HDRQ DMA Request Host Data Bus BIT 7 HWR-,STOP Host I/O Write Host Data Bus BIT 8 Host Data Bus BIT 6 HRD-, Host I/O Read HDMARDY, -...