



Toshiba e-studio166 Service Handbook

Multifunctional digital systems

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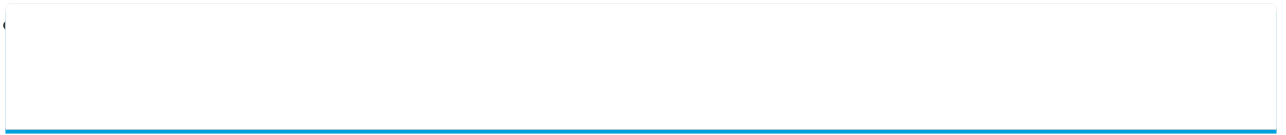
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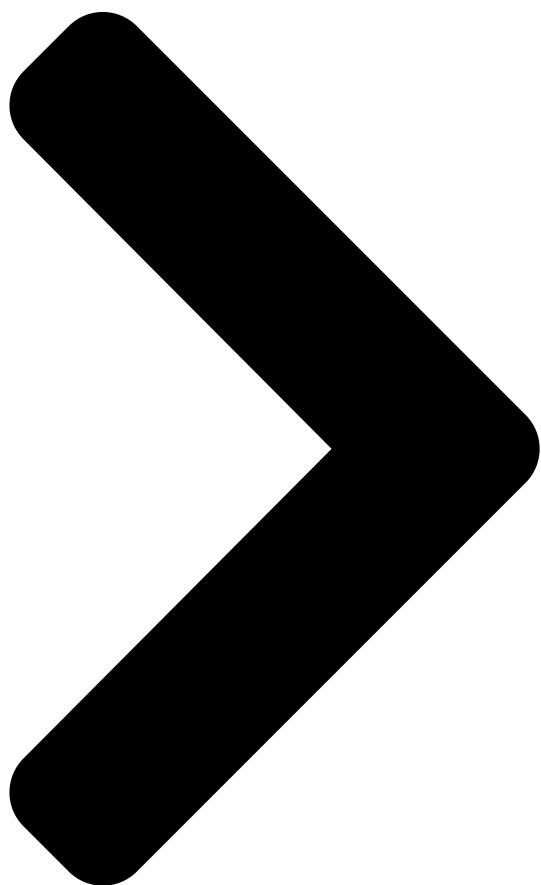
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SERVICE

HANDBOOK

MULTIFUNCTIONAL DIGITAL SYSTEMS

TC
Lead

e-

STUDIO163/166/20

3/206

File No. SHE050005N0
R05092196301-TTEC
Ver14_2009-05

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Related Manuals for Toshiba e-studio166

[All in One Printer Toshiba e-STUDIO166 Service Manual](#)

Multifunctional digital systems (238 pages)

[All in One Printer Toshiba e-STUDIO163 Service Handbook](#)

(235 pages)

[All in One Printer Toshiba e-STUDIO206 Operator's Manual](#)

Toshiba multifunctional digital system operator's manual (116 pages)

[Mfp Toshiba e-STUDIO163 Service Manual](#)

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Digital plain paper copier (138 pages)

[All in One Printer Toshiba e-studio 16 Operator's Manual](#)

Facsimile function (207 pages)

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[All in One Printer Toshiba E-STUDIO207 Operator's Manual](#)

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Summary of Contents for Toshiba e-studio166

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File No. SHE050005N0 R05092196301-TTEC Ver14_2009-05...

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TOSHIBA TEC CORPORATION. No patent liability is assumed, however, with respect to the use of the information contained herein.

[Page 3](#) GENERAL PRECAUTIONS REGARDING THE SERVICE FOR e-STUDIO163/166/203/206

The installation and service should be done by a qualified service technician. 1) Transportation/Installation When transporting/installing the equipment, remove the drawer, employ two persons and be sure to hold the positions as shown in the figure. The equipment is quite heavy and weighs approximately 32 kg (70.55 lb), therefore pay full attention when handling it.

[Page 4](#) If these parts are short-circuited and their functions become ineffective, they may result in fatal accidents such as burnout. Do not allow a short-circuit or do not use the parts not recommended by Toshiba TEC Corporation. 4) Cautionary Labels During servicing, be sure to check the rating plate and cautionary labels such as "Unplug the power cable during service", "CAUTION.

[Page 5](#) 5) Disposal of the Equipment, Supplies, Packing Materials, Used Batteries and IC-RAMs Regarding the recovery and disposal of the equipment, supplies, packing materials, used batteries and IC-RAMs including lithium batteries, follow the relevant local regulations or rules. Caution: Dispose of used batteries and IC-RAMs including lithium batteries according to this manual. Attention: Se débarrasser de batteries et IC-RAMs usés y compris les batteries en lithium selon ce manuel.

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Single side original/A4/LT size. APS/automatic density are not selected. • Number of sheets: 16[20] or more. • Reproduction ratio: 100% © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 SPECIFICATIONS / ACCESSORIES / OPTIONS / SUPPLIES 1 - 1 07/02...

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Toner supplyAutomatic toner density detection/supply Toner cartridge replacing method (There is a recovered toner supply mechanism.) e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved SPECIFICATIONS / ACCESSORIES / OPTIONS / SUPPLIES 1 - 2 07/02...

[Page 15](#) Dimensions of the equipmentW 600 x D 643 x H 462.5 (mm): See the figure below Fig. 1-1 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-

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Asia / Saudi Arabia SAD: Saudi Arabia ARD: Latin America CND: China TWD: Taiwan KRD: Korea JPD: Japan e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved SPECIFICATIONS / ACCESSORIES / OPTIONS / SUPPLIES 1 - 4 07/02...

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[Page 18](#) Operator's manual pocket KK-1660 / C (e-STUDIO166/206 : except for NAD) Damp Heater MF-1640 U / E Desk MH-1640 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved SPECIFICATIONS / ACCESSORIES / OPTIONS / SUPPLIES 1 - 6 07/02...

[Page 19](#) PS-ZT1640T5K (4) (for Taiwan) PS-ZT1640E (1) (for Europe) PS-ZT1640E5K (1) (for Europe) Developer material D-2320 (except for China) D-2320C (for China) © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 SPECIFICATIONS / ACCESSORIES / OPTIONS / SUPPLIES 1 - 7 07/02...

[Page 20: System List](#)

(ADF) KA-1640PC MR-2017 Expansion Memory GC-1240 Paper Feed Unit (PFU) MY-1027 Desk MH-1640 Fig. 1-2 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved SPECIFICATIONS / ACCESSORIES / OPTIONS / SUPPLIES 1 - 8 07/02...

[Page 21: Error Code And Self-Diagnostic Mode](#)

Front cover open jam: The front cover has opened P. 5-8 during printing. PFU cover open jam: The PFU cover has opened P. 5-9 during printing. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 1 06/11...

[Page 22: Service Call](#)

Other service call Invalid backup counter: The value of the total counter is P. 5-19 inconsistent with that of the backup counter. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 2 07/06...

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State transition diagram of self-diagnosis modes Fig. 2-1 *1 Turn OFF the power after using the self-diagnosis modes, and leave the equipment to the user. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE...

[Page 24](#) Press the reproduction ratio button ([200%] or [25%]) to shift the display to the 3 digits of the next lower/higher order. E.g.1) Displaying 1,000,000 Fig. 2-2 E.g. 2) Displaying 80,000 Fig. 2-3 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 4...

[Page 25: Input Check \(Test Mode\)](#)

Paper empty sensor No paper Paper present Drawer detection switch Drawer not Drawer installed installed PFU paper empty sensor No paper Paper present © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 5...

[Page 26](#) No paper Developer unit switch Not connected Connected Fuser unit switch Connected Not connected Externally counter connection Not connected Connected e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 6 06/11...

[Page 27](#) ADF original width sensor-1 Original No original present ADF original length sensor

Original No original present ADF registration sensor Original No original present © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 7 06/11...

[Page 28: Output Check \(Test Mode\)](#)

[POWER] [START] [POWER] [Digital keys] OFF/ON Procedure 3 [0][4] Code Operation [START] [CLEAR] [POWER] [Digital keys] Operation [FUNCTION] [POWER] CLEAR] OFF/ON e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 8...

[Page 29](#) ADF feed motor ON/OFF (reverse rotation) ADF read motor ON/OFF (normal rotation) Switching regulator cooling fan high speed rotation/low speed rotation © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 9...

[Page 30: Test Print Mode \(Test Mode\)](#)

Secondary scanning direction 33 gradation steps Error diffusion Grid pattern Pattern width: 2 dots, Pitch: 10 mm Solid black pattern (Whole area) A3/LD e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 10 06/04...

[Page 31: List Print Mode \(9S\)](#)

[0] -> [0] -> [0] -> [0] -> [*] -> [0] -> [0] Size specification (4digits) 0080 [0] -> [0] -> [8] -> [0] © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 11...

[Page 32](#) Output sample (103: Memory dump list) Fig. 2-5 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 12 06/04...

[Page 33: Access Code Mode \(8S\)](#)

If the [START] button is pressed with an access code which has not been registered previously, the display returns to the initial screen. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE...

[Page 34](#) [CLEAR] is entered *: Apply the same procedure when the equipment enters the interruption mode. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 14 06/04...

[Page 35: Function Setting Mode \(1*\)](#)

Department Code 0: No This bit setting determines whether or not the setting 1: Yes department control function is available. Undefined Undefined © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 15...

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[Separation bias] 233,234,235 Process [Toner recycle] [Write starting] 410,411,440,441,442 [Polygonal motor] 401,405 Laser [Laser power] [Sideways deviation] 497-0 to 5 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 17 06/04...

[Page 38](#) [Digital keys] * [INTERRUPT] [POWER] OFF/ON Does not store value in RAM [FUNCTION CLEAR] * Press [#] to enter minus (-). e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 18...

[Page 39](#) In that case, turn ON the power normally, leave the equipment for approx. 3 minutes

after it has become ready state and then start up the adjustment mode again. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206...

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[Page 41](#) Laser Laser power adjustment When the value <0-255> increases, the laser out- put increases corre- spondingly. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 21 07/02...

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[Page 43](#) PPC/ When the value ment of exit <0-255> increases by "1", the motor speed rotation becomes faster by approx. 0.05%. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 23 07/02...

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[Page 49](#) Text peak Image Range correc- Text/Photo When the value tion/Text peak <0-255> decreases, the text adjustment becomes darker. Text <0-255> Photo <0-255> © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 29...

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[Page 54](#) [Energy saving mode] [Sorting] [Timer] 204,205,206 [Book type] [External counter] [Default setting] 607,618,642 [Paper size] [Polygonal motor] 483,486 Laser [Power correction] 872,873,875,876,877,883 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 34...

[Page 55](#) [Digital keys] Value [FUNCTION [POWER] displayed CLEAR] OFF/ON Procedure 15 [0][8] Code Copying [POWER] [START] [POWER] [Digital keys] total counter OFF/ON © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 35 07/02...

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[Page 65](#) (driving period of the toner motor) into the developer unit. 0: x1.0 1: x0.75 2: x0.5 3: x0.3 4: x2.0 5: x1.5 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 45 06/11...

[Page 66](#) Paper Default setting of paper 0: A4/LT feeding source <0-4> 1: Drawer 2: LCF 3: Not used 4: Not used e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 46 06/05...

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[Page 68](#) <0-200> (Center ther- from 0 to 1,000 sec. 525-2 The third mistor) later drop <0-200> 525-3 The fourth drop <0-200> e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 48...

[Page 69](#) 537-1 The sec- (Side ther- ond drop <0-10> mistor) 537-2 The third drop <0-10> 537-3 The fourth drop <0-10> © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 49 09/01...

[Page 70](#) Access code display 0: Displayed <0-1> 1: Not displayed User Automatic Sorting Mode 0: Invalid interface setting (ADF) <0,2> 2: SORT e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 50 09/01...

[Page 71](#) MFP goes into the paper exit full sta- tus. Sets the limit num- ber of paper exit for 08-698. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 51...

[Page 72](#) 5: 155°C (Envelope) 6: 160°C 7: 165°C 8: 170°C 9: 175°C 804-1 Side ther- 10: 180°C mistor <0-12> 11: 185°C 12: 120°C e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 52...

[Page 73](#) Developer bias DC correc- oper tion <0-255> (Photo/OHP film) Image Switching of recycled toner 0: Switched process- saving control <0-1> 1: Not switched © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 53 06/04...

[Page 74](#) (05-220). Transfer Transfer transformer DC Corrects the value of correction (L) <0-255> the transfer trans- former DC output adjustment (05-222). e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 54 07/11...

[Page 75](#) 7: 165°C Low tempera- 8: 170°C 9: 175°C 896-1 Side ther- ture) 10: 180°C mistor <0-12> 11: 185°C 12: 120°C © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 55 09/01...

[Page 76](#) 0: Pause printing and wait for additional payment. 1: Stop printing and cancel the accepted print job. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 56 06/05...

[Page 77](#) (until auto clear or all clear.) 0: Invalid (Always off) 1: Valid © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 57 06/05...

[Page 78](#) When "0" is set at one of sub-codes 0, 3, 6 and 7, the rest of them are automatically updated to "0". e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 58...

[Page 79](#) 1246-0, 1, 3, 4, 6, 7 <Default values of code 1246 (e-STUDIO 163/203)> Sub-codes 0, 3, 6, 7: 0/0 Sub-code 1: 72,000/90,000 Sub-code 4: 180,000/180,000 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 59 06/05...

[Page 80](#) 1336-0, 1, 3, 4, 6, 7 <Default values of code 1336 (e-STUDIO 163/203)> Sub-codes 0, 3, 6, 7: 0/0 Sub-code 1: 72,000/90,000 Sub-code 4: 180,000/180,000 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 60 07/11...

[Page 81: Test Mode \(13\)](#)

<Key used in operation> [1][3] "Ch" Code Code [START] [Power ON] [Digital Key] (blinks) [Power] Result [CLEAR/STOP] OFF/ON © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved

[Page 82](#) 4. In the LED test (07), the [ENERGY SAVER] lamp is not included. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 62 07/11...

[Page 83: Country/Region Code \(02\)](#)

RAM Warming up [POWER] [Digital keys] [INTERRUPT] Does not stores value in RAM [CLEAR/STOP] <Code> Code (Default) Model e-STUDIO165/205 e-STUDIO167/207/237 ASU/SYD/SAD © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 63...

[Page 84](#) © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ERROR CODE AND SELF-DIAGNOSTIC MODE 2 - 64...

[Page 85: Adjustment](#)

Key in code [200] and press the [START] button. The display on the 7-segment LED changes as follows and the "density LEDs" lights from the left in order. [2][0][0] [START] Fig. 3-2 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 1...

[Page 86](#) The drum, developer unit, etc. are stopped and the following is displayed on the 7-segment LED. [INTERRUPT] Fig. 3-4 Turn the power OFF. (10) Install the toner cartridge. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 2...

[Page 87: Image Dimensional Adjustment](#)

(c) Reproduction ratio of secondary scanning direc- tion (d) Image location of secondary scanning direction (e) Top margin (f) Right margin (g) Bottom margin © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 3 06/04...

[Page 88](#) If the test copy does not satisfy the specified values, return to step 1 and repeat the adjustment procedure. [Power] :Exit the Adjustment Mode. OFF/ON Fig. 3-5 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 4...

[Page 89: Paper Alignment At The Registration Roller](#)

Middle size: 220-239 mm (8.7-12.9 inches) Short size: 219 mm or shorter (8.6 inches or shorter) 2. The adjustment of "Post card" is for Japan only. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 5...

[Page 90](#) * As a tentative countermeasure, the service life of the feed roller can be extended by increas- ing the aligning amount. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 6 06/04...

[Page 91: Printer Related Adjustment](#)

Press [Drawer number] [START] (A grid pattern is printed out.) *The larger the adjustment value is, the longer the distance B becomes (approx. 0.05 mm/step). © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 7...

[Page 92](#) Press [Drawer number] [START] (A grid pattern is printed out.) *The larger the adjustment value is, the longer the distance C becomes (approx. 0.125 mm/step). e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 8 06/04...

[Page 93](#) Press [Drawer number] [START] (A grid pattern is printed out.) *The larger the adjustment value is, the longer the distance D becomes (approx. 0.4 mm/step). © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 9...

[Page 94](#) Key in the same value for 05-410. 05-421 (Drawer, A3/LD) 200±0.5 mm (0.125 mm/step) 05-440 (Drawer, A3/LD), 441 (PFU, A4/LT), 442 (Bypass feed, A4/LT) 50±0.5 mm(0.4 mm/step) e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights

reserved ADJUSTMENT 3 - 10 06/04...

[Page 95: Scanner Related Adjustment](#)

Measure the distance A from 10 mm to 270 mm of the copied image of the ruler. Check if the distance A is within the range of 260 ± 0.5 mm. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206...

[Page 96](#) *The larger the adjustment value is, the higher the reproduction ratio and the longer the distance A become (approx. 0.125 mm/step). Copied image of the ruler Feeding direction Fig. 3-8 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 12...

[Page 97](#) (0.169 mm/step). Be sure not to perform any operations while the density LED is blinking. Copied image of the ruler Feeding direction Fig. 3-9 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 13 06/04...

[Page 98](#) *The smaller the adjustment value is, the lower the reproduction ratio becomes (0.189 mm/step). Be sure not to perform any operations while the density LED is blinking. Copied image of the ruler Feeding direction Fig. 3-10 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 14 06/04...

[Page 99](#) *The larger the adjustment value is, the more the image is shifted to the trailing edge (0.064 mm/ step). Be sure not to perform any operations while the density LED is blinking. Copied image of the ruler Feeding direction Fig. 3-11 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 15 06/04...

[Page 100](#) Press the [INTERRUPT] button (stored in memory). ("AJ" is displayed.) *The larger the adjustment value is, the wider the blank area becomes (approx. 0.04 mm/step). Feeding direction Fig. 3-12 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 16 06/04...

[Page 101](#) ("AJ" is displayed.) *The larger the adjustment value is, the wider the blank area at the right side becomes (approx. 0.04 mm/step). Feeding direction Fig. 3-13 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 17 06/04...

[Page 102](#) ("AJ" is displayed.) *The larger the adjustment value is, the wider the blank area at the trailing edge becomes (approx. 0.04 mm/step). Feeding direction Fig. 3-14 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 18 06/04...

[Page 103: Image Quality Adjustment \(Copying Function\)](#)

The equipment goes back to the ready state. Let the equipment restarted and perform copying job. If the desired image density has not been attained, repeat step (2) to (5). © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 19...

[Page 104: Gamma Slope Adjustment](#)

1 to 9: Select the gamma slope angle. (The larger the value is, the larger the angle becomes.) <Procedure> Procedure is same as that of P. 3-19 "3.3.1 Density adjustment". e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 20...

[Page 105: Sharpness Adjustment](#)

Make a test copy and compare the image obtained with the current settings; if necessary, make adjustment using the following procedure. <Procedure> Procedure is same as that of P. 3-19 "3.3.1 Density adjustment". © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 21...

[Page 106: Setting Range Correction](#)

Make a test copy and compare the image obtained with the current settings; if necessary, make adjustment using the following procedure. <Procedure> Procedure is same as that of P. 3-19

[Page 107: Setting Range Correction \(Adjustment Of Text Peak\)](#)

Make a test copy and compare the image obtained with the current settings; if necessary, make adjustment using the following procedure. <Procedure> Procedure is same as that of P. 3-19 "3.3.1 Density adjustment". © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 23 06/04...

[Page 108: Adjustment Of Image Density](#)

Turn the power OFF and then back ON to perform printing job. If the desired image density has not been attained, repeat step (2) to (7). e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 24...

[Page 109: Image Quality Adjustment \(Printing Function\)](#)

Turn the power OFF and then back ON to perform printing job. If the desired text density has not been attained, repeat step (2) to (5). © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT...

[Page 110: Adjustment Of Image Density](#)

Turn the power OFF and then back ON to perform printing job. If the desired image density has not been attained, repeat step (2) to (7). e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 26...

[Page 111: Image Quality Adjustment \(Scanning Function\)](#)

Press the [INTERRUPT] button to store the value. The equipment goes back to the ready state. Turn the power OFF and then back ON to perform scanning job. If the desired image density has not been attained, repeat step (2) to (5). © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT...

[Page 112: Sharpness Adjustment](#)

Turn the power OFF and then back ON to perform scanning job. If the desired image density has not been attained, repeat step (2) to (7). e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 28...

[Page 113: Setting Range Correction](#)

Acceptable values: 0 to 255 (Default: text/photo: 32, photo: 16, text: 46) <Procedure> Procedure is same as that of P. 3-27 "3.5.1 Density adjustment". © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 29 06/04...

[Page 114: Setting Range Correction \(Adjustment Of Text Peak\)](#)

* The image changes slightly in text mode because it is treated as a simple binary format image. <Procedure> Procedure is same as that of P. 3-27 "3.5.1 Density adjustment". e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 30 06/04...

[Page 115: Adjustment Of High-Voltage Transformer](#)

P. 3-34 Refer to P. 3-35 "[D] Con- Connection for devel- "[C] Connection for nection for transfer/separation oper bias adjustment". main charger adjust- charger adjustment". ment". © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 31...

[Page 116](#) High-voltage transformer jig Fig. 3-16 Fix the green cable of the high-voltage transformer jig to the frame of the equipment. Screw Green cable Fig. 3-17 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 32...

[Page 117](#) Install the cover open switch release jig for Front cover opening/closing switch service. Close the transfer cover. Cover open switch release jig for service Fig. 3-18 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3

- 33...

[Page 118](#) (green cable) (+) terminal: (-) terminal: Connect with the red cable (thick line) Connect with the white cable Fig. 3-20 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 34...

[Page 119](#) (green cable) (+) terminal: (-) terminal: Connect with the Connect with the white cable red cable (thin line) Fig. 3-21 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 35...

[Page 120](#) -566±54mV -391±36mV Adjustment value [INTERRUPT] ; Adjusted value is stored in memory. Return to 1 to enter the other adjustment code. [POWER] OFF/ON Fig. 3-22 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 36...

[Page 121: Precautions](#)

Approx. 11mm Approx. 5mm Adjustment code "220" "221" "222" Leading edge Trailing edge area of paper area of paper Fig. 3-23 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 37...

[Page 122](#) "235" "234" "235" Leading edge Trailing edge area of paper area of paper Fig. 3-24 * Adjustment code 235 performs the adjustment for 2 areas. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 38...

[Page 123: Adjustment Of The Scanner Section](#)

Install the CIS unit drive belt-1 after the ten- sion bracket fixing screw are loosened. Tighten the tension bracket fixing screw. Tension bracket Fig. 3-25 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 39 06/04...

[Page 124: Scan Motor \(Cis Unit Drive Belt\)](#)

Scan motor Belt tension jig Fig. 3-27 Tighten screws A and B where the scan motor pulled by the belt tension jig stops. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 40...

[Page 125: Adjustment Of The Paper Feeding System](#)

Fig. 3-29 Fig. 3-28 1) Loosen the screen. 2) Move the entire guide to the front or rear side. 3) Tighten the screw. Fig. 3-30 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 41...

[Page 126: Adjustment Of Developer Unit](#)

Turn the adjustment screw to widen the gap Screw so that the jig can be inserted in it. (Turning the screw clockwise widens the gap) Fig. 3-32 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 42...

[Page 127](#) Developer sleeve Fig. 3-34 Confirm that the side seals are attached on the toner scattering prevention sheet. Side seal Toner scattering prevention sheet Fig. 3-35 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 43...

[Page 128](#) Note: Note: After the developer material has been replaced, adjust the auto-toner sensor. (See P. 3-1 "3.1 Adjustment of Auto-Toner Sensor".) Fig. 3-36 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 44...

[Page 129: Adjustment Of The Adf \(Mr\)](#)

(the positioning pins are installed to the back side of the hinge which is on the left side of the ADF). Fig. 3-37 Remove the platen sheet. Fig. 3-38 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 45...

[Page 130](#) If the pins cannot be fitted into the holes, perform the adjustment according to the following procedure. Remove the right-hand hinge screw at the rear side. Fig. 3-40 Loosen the left-hand hinge screw at the rear side. Fig. 3-41 e-STUDIO163/166/203/206 © 2005 - 2009

[Page 131](#) ADF is closed. Fig. 3-43 Tighten the left-hand hinge screw at the rear side. Fig. 3-44 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 47...

[Page 132](#) Fig. 3-45 Match the screw hole positions. Fig. 3-46 Install the right-hand hinge screw at the rear side. Fig. 3-47 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 48...

[Page 133](#) Close the ADF gently and open it to check if the platen sheet is attached properly. Fig. 3-49 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 49...

[Page 134: Adjustment Of Adf Height](#)

"B" from the left hand side of the equipment. If the value is not within the tolerance, perform the adjustment according to the following procedure. [Tolerance of the gap] Rear side: 0 - 0.2 mm Front side: 0 mm Fig. 3-50 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 50...

[Page 135](#) Adjust the gap on the rear side by means of the screw on the hinge on the feed side of the ADF. Turn it clockwiseLowered Turn it counterclockwiseHeightened Fig. 3-52 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 51...

[Page 136: Adjustment Of Skew](#)

Superimpose the chart on the copy and check the inclination of the copy image. [B] Adjustment Shift the aligning plate with the scale as the guide shown in the figure below to adjust the skew. Fig. 3-54 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 52...

[Page 137](#) "+", and if "D", shift it to "-". Fig. 3-55 Fig. 3-56 Shift the aligning plate in the direction of "+". Shift the aligning plate in the direction of "-". © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 53...

[Page 138: Adjustment Of The Leading Edge Position](#)

If the leading edge (F) margin of the copy image is smaller than the (E) margin of the chart, enter a value larger than the current one. Note: Note: Changing one value shifts the copy image by 0.2 mm. Press the [INTERRUPT] button. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 54...

[Page 139: Adjustment Of Horizontal Position](#)

If the center line of the copy image is shifted to the rear side of the equipment, enter a value smaller than the current one. Note: Note: Changing one value shifts the copy image by 0.169 mm. Fig. 3-60 Press the [INTERRUPT] button. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 55 06/02...

[Page 140: Adjustment Of Copy Ratio](#)

If the copy image dimension "I" is smaller than the chart dimension, enter a value larger than the current one. Fig. 3-61 Press the [INTERRUPT] button. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 56...

[Page 141: Adjustment Of Adf Opening/Closing Sensor](#)

Adjust the bracket position so that the sensor is turned ON when the height "A" becomes 100 mm or less (within the empty weight falling limit). Fig. 3-62 Fig. 3-63 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 ADJUSTMENT 3 - 57...

[Page 142](#) © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 3 - 58...

[Page 143: Preventive Maintenance \(Pm\)](#)

After preventive maintenance, set the value of 08-252 (Current value of PM counter Display) to "0". *This turns off the "CALL SERVICE" symbol. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 PREVENTIVE MAINTENANCE (PM) 4 - 1...

[Page 144: Operational Items In Overhauling](#)

Check the performance of all the switches and sensors. Replace them with new ones if necessary. Clean inside the equipment thoroughly. Check if the harnesses, thermistors, fuses, etc. are damaged. Replace them if necessary. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved PREVENTIVE MAINTENANCE (PM) 4 - 2 07/02...

[Page 145: Preventive Maintenance Checklist](#)

Original glass guide P9-I9 B. Laser unit Replacement Operation Parts list Items to check Cleaning Lubrication Remarks (x 1,000 sheets) check <P-I> Slit glass © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 PREVENTIVE MAINTENANCE (PM) 4 - 3 07/02...

[Page 146](#) Feed roller P14-I22 Separation pad P13-I22 Bypass tray Drive gear (tooth face and shaft) GCB bushing bearing One side of the plastic bushing e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved PREVENTIVE MAINTENANCE (PM) 4 - 4...

[Page 147](#) Discharge LED Whole cleaner unit Drum cleaning blade 72/90 P20-I5 Separation finger for 72/90 P20-I17 drum Recovery blade 72/90 P20-I6 Ozone filter 72/90 P11-I3 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 PREVENTIVE MAINTENANCE (PM) 4 - 5...

[Page 148](#) K. PFU (MY-1027) Replacement Operation Parts list Items to check Cleaning Lubrication Remarks (x 1,000 sheets) check <P-I> Pickup roller P3-I12 Feed roller P3-I16 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved PREVENTIVE MAINTENANCE (PM) 4 - 6...

[Page 149](#) Fig. 4-1 Front side © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 PREVENTIVE MAINTENANCE (PM) 4 - 7...

[Page 150](#) Fig. 4-2 Automatic Document Feeder (ADF) Fig. 4-3 Paper Feed Unit (PFU) e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved PREVENTIVE MAINTENANCE (PM) 4 - 8 06/04...

[Page 151](#) Insert the wire securely into the V-grooves of the front and rear sides. Do not twist the wire. Do not touch the wire with your bare hand. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 PREVENTIVE MAINTENANCE (PM)

[Page 152](#) Mixer unit (Shafts of mixers-1, -2 & -3) 6 pcs. Note: Note: Lubricate the oil seal only when the oil seal is replaced. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved PREVENTIVE MAINTENANCE (PM) 4 - 10...

[Page 153](#) Do not deform or damage the thermistor during the cleaning. Replace the thermistor with a new one if it is damaged or deformed regardless of degree. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 PREVENTIVE MAINTENANCE (PM)

[Page 154: Pm Kit](#)

Pressure roller HR-1640-L Separation finger for fuser roller SCRAPER-280 Bush for fuser roller BUSH-HR/RLR DF-KIT-3018 Pickup roller ASYS-ROL-FEED Feed roller ASYS-ROL-FEED Separation roller ASYS-ROL-RET e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved PREVENTIVE MAINTENANCE (PM) 4 - 12...

[Page 155: Jig List](#)

Downloading jig (DLM board) Download JIG-2 (6 Flash ROMs) Download JIG-1 (2 Flash ROMs) ROM writer adapter (For 1881) ROM writer adapter (For 1931) © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 PREVENTIVE MAINTENANCE (PM) 4

[Page 156: Grease List](#)

White grease (Molykote HP-300) GREASE-HP300-S Bottle Alvania No.2 ASM-PG-ALV2 100g Tube
White grease (Molykote X5-6020) MOLYKOTE-100 100g Tube Floil (GE-334C) ASM-PG-GE334C-S
Bottle e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights
reserved PREVENTIVE MAINTENANCE (PM) 4 - 14 06/04...

[Page 157: Precautions For Storing And Handling Supplies](#)

Avoid storing paper in places where it may be subjected to high humidity. After a package is
opened, be sure to place and store it in a storage bag. © 2005 - 2009 TOSHIBA TEC
CORPORATION All rights reserved e-STUDIO163/166/203/206...

[Page 158: Checking And Cleaning Of Photoconductive Drum](#)

6) Collecting used photoconductive drums Regarding the recovery and disposal of used
photoconductive drums, we recommend following the relevant local regulations or rules. e-
STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved
PREVENTIVE MAINTENANCE (PM) 4 - 16 08/04...

[Page 159: Checking And Cleaning Of Drum Cleaning Blade](#)

Be careful not to rub the fuser roller and pressure roller surface with your nails or hard objects
because it can be easily damaged. Do not use silicone oil on the fuser roller and pressure roller.
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[Page 160](#) © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved PREVENTIVE
MAINTENANCE (PM) 4 - 18...

[Page 161: Troubleshooting](#)

2) Check if the aligning amount is appropriate. (See P. 3-5 "3.2.2 Paper alignment at the
registration roller") An [E01] error occurs both when the amount is too large and too small. ©
2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206
TROUBLESHOOTING 5 - 1...

[Page 162](#) Test mode / Input check Registration area Transfer cover Registration sensor 03-
[INTERRUPT]OFF/[9]/[6] Exit area Transfer cover Exit sensor 03-[INTERRUPT]OFF/[9]/[5] PFU side
cover PFU feed sensor 03-[INTERRUPT]OFF/[7]/[5] e-STUDIO163/166/203/206 © 2005 - 2009
TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 2...

[Page 163](#) 1) Check the condition of the pickup roller of paper source, and replace it if it is
worn out. 2) Check the transport roller. Replace it if it is worn out. © 2005 - 2009 TOSHIBA TEC
CORPORATION All rights reserved e-STUDIO163/166/203/206...

[Page 164: Paper Misfeeding](#)

5) Replace the bypass pickup solenoid and bypass paper sensor. 6) Replace the MAIN board.
Check the bypass pickup roller. Replace it if it is worn out. e-STUDIO163/166/203/206 © 2005 -
2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 4...

[Page 165](#) 4) Check if the conductor pattern on the MAIN board is short circuited or open
circuited. 5) Replace the pickup solenoid. 6) Replace the MAIN board. Check the drawer pickup
roller. Replace it if it is worn out. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved
e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 5...

[Page 166](#) 5) Replace the PFU pickup solenoid. 6) Replace the MAIN board. Check the PFU
drawer pickup roller. Replace it if it is worn out. e-STUDIO163/166/203/206 © 2005 - 2009
TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 6...

[Page 167: Cover Open Jam](#)

4) Check if the conductor pattern on the MAIN board is short circuited or open circuited. 5)
Replace the MAIN board. Replace the MAIN board. © 2005 - 2009 TOSHIBA TEC CORPORATION
All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 7...

[Page 168](#) 4) Check if the conductor pattern on the MAIN board is short circuited or open circuited. 5) Replace the MAIN board. Replace the MAIN board. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 8...

[Page 169](#) 4) Check if the conductor pattern on the MAIN board is short circuited or open circuited. 5) Replace the PFU cover opening/closing switch. 6) Replace the MAIN board. Replace the MAIN board. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 9...

[Page 170: Transport Jam \(Adf\)](#)

4) Check if the conductor pattern on the ADF board is short circuited or open circuited. 5) Replace the read sensor. 6) Replace the ADF board. Replace the ADF board. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 10...

[Page 171](#) 4) Check if the conductor pattern on the ADF board is short circuited or open circuited. 5) Replace the ADF jam access cover switch. 6) Replace the ADF board. Replace the ADF board. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 11...

[Page 172](#) 4) Check if the conductor pattern on the ADF board is short circuited or open circuited. 5) Replace the ADF opening/closing sensor. 6) Replace the ADF board. Replace the ADF board. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 12...

[Page 173: Drive System Related Service Call](#)

1) Check if the PLL lock signal CN305-B8 output from the MAIN board is always level "L". 2) Check if the voltage supplied to the CPU input terminal IC24-12 is always "L". 3) Replace the MAIN board. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING...

[Page 174: Scanning System Related Service Call](#)

3) Check if the conductor pattern on the MAIN board is short circuited or open circuited. 4) Replace the MAIN board. 5) Replace the CIS unit. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 14 07/06...

[Page 175: Fuser Unit Related Service Call](#)

Change the current status counter value "1" or "2" to "0", then press [ENTER] or [INTERRUPT] (to cancel [C41]). Turn the power OFF and then back ON. Make sure that the equipment enters the normal ready state. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 15...

[Page 176](#) Change the current status counter value "4" to "0", then press [ENTER] or [INTERRUPT] (to cancel [C43]). Turn the power OFF and then back ON. Make sure that the equipment enters the normal ready state. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 16 07/06...

[Page 177](#) Check if the conductor pattern on the board is short circuited or open circuited. Replace the MAIN board. 3. Clear the status counter Change the current status counter value (08-400) "6" to "0". © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 17...

[Page 178: Adf Related Service Call](#)

1) Connect the disconnected connectors. 2) Replace the laser optical unit if the harness is open circuited. 1) Replace the MAIN board. 2) Replace the laser optical unit. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 18 06/07...

[Page 179: Service Call For Others](#)

Check if the updated firmware is for the intended model. Re-update if it was the wrong firmware. Note: Note: A C94 error message appears if the firmware for e-STUDIO166/206 is updated on e-STUDIO163/203 by mistake. Remember that no error message not appears when

the firmware for e-STUDIO163/203 is updated on e-STUDIO166/206.

[Page 180: Optional Communication Related Service Call](#)

Check if the conductor patterns on the ADF/RADF board and the MAIN board are short circuited or open circuited. Replace the ADF/RADF board. Replace the MAIN board. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 20 07/06...

[Page 181: Troubleshooting For The Image](#)

Is there a blotch on the image? Perform troubleshooting for blotched image. Is the image transferred normally? Perform troubleshooting for abnormal transfer. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 21...

[Page 182](#) Check the pressure of the drum cleaning blade. Toner dusting Is toner heaped on the seal of the Remove the toner and clean the developer unit? developer unit. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 22...

[Page 183](#) Check the image processing param- Check the encircled areas A and B in eters. the image, and change the sharp- ness intensity in the sharpness adjustment mode. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 23...

[Page 184](#) Use the specified developer material? and toner. Scanner Are the original glass (especially the Clean them. position of shading correction plate) and CIS unit dirty? e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 24...

[Page 185](#) Is the exhaust fan operating prop- Check the connection of connector. erty? Replace the ozone exhaust fan. Is the ozone filter stained or dam- Replace the ozone filter. aged? © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 25...

[Page 186](#) Check the setting and correct it. roller in each paper type normal? 08-413, 437, 438, 451, 452, 453, 520, 521 Using the recommended paper? Use the recommended paper. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 26...

[Page 187](#) Are the connectors securely con- Connect the connectors securely. CIS unit and harnesses nected? Replace the harness. Check if the harnesses connecting the boards are open circuited. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 27...

[Page 188](#) Are the connectors securely con- Connect the connectors securely. CIS unit and harnesses nected? Replace the harness. Check if the harnesses connecting the boards are open circuited. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 28...

[Page 189](#) CIS unit dirty? Cleaner Is there any foreign matter, which Remove the foreign matter. contacts the drum on the cleaner stay? © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 29...

[Page 190](#) Remove the foreign matter from the shred sticking to the transfer charger wire. wire? Feed system Is the aligning amount proper? Adjust the aligning amount. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 30...

[Page 191](#) Correct it. installed? CIS unit Is the CIS unit slanted? Replace the CIS case. Feed system Is the aligning amount proper? Adjust the aligning amount. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 31...

[Page 192](#) Replace the drum. face? Laser optical unit Is there a foreign matter or stain on Remove the foreign matter or the the slit glass? stain. e-STUDIO163/166/203/206 © 2005 -

[Page 193](#) Scanner Are the original glass (especially the Clean them. position of shading correction plate) and CIS unit dirty? © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 33...

[Page 194](#) / Transfer charger) Transfer/Separation Is there any foreign matter such as Clean the transfer/separation charger fiber in the paper transport area of charger. the transfer/separation charger? e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 34...

[Page 195](#) Adjust the rotation speed of the roller. High-voltage transformer Is the high-voltage transformer out- Adjust the output, or replace the (Transfer charger) put defective? transformer. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 35...

[Page 196](#) Is the platen cover or ADF opened? Close the platen cover or ADF. Are the original glass (especially the Clean them. position of shading correction plate) and CIS unit dirty? e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 36...

[Page 197](#) Is Replace the high-voltage harness. the harness open circuited? Discharge LED Are the connectors of discharge LED Reconnect the harness securely. harness securely connected? © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 37...

[Page 198](#) Pre-registration guide Is the pre-registration guide installed Install the guide properly. properly? Feed system Is the aligning amount proper? Adjust the aligning amount. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 38...

[Page 199](#) Is there any problem with the drive Check the drive system of the drum. system of the drum? Clean or replace the gears if they have stains or scratches. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 39...

[Page 200](#) Check and adjust the mechanism. mal? Is the setting temperature of the fuser Check the setting and correct it. roller normal? 08-407, 410, 411, 450, 515, 516 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 40...

[Page 201](#) Are the original glass (especially the Clean them. position of shading correction plate) and CIS unit dirty? Exposure lamp Is the CIS unit degraded? Replace the CIS unit. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 41...

[Page 202](#) Clean the transfer charger wire. High-voltage transformer Is the output from the high-voltage Adjust the output. Replace the trans- (Transfer charger) transformer normal? former if necessary. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 42...

[Page 203: Replacement Of Pc Boards](#)

Perform 08-388 (Copying total counter / MAIN board -> SRAM board) to recover the total counter. While pressing [1], [3] and [#] simultaneously, turn the power ON. (RAM clear) (10) Turn the power OFF. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 43...

[Page 204](#) (14) Be sure to perform "05-310" with the platen cover or the ADF closed after replacing the SRAM board. (15) Turn the power OFF and then start with the setting mode (08). e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 44 06/05...

[Page 205](#) 08-1200_1 (Developer material (Recommended number of output pages for replacement)) 08-1200_3 (Developer material (Present driving counts)) 08-1200_4 (Developer material (Recommended driving counts to be replaced)) 08-1200_6 (Developer material

(Present output pages for control)) © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 45...

[Page 206](#) 08-1410 (Counter for period of toner cartridge rotation time) 08-1411 (Counter for envelope) Also, set the setting values which have been changed for servicing. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 46 07/11...

[Page 207](#) (17) Check that the setting value for 08-203 (Line adjustment mode) is "0" (For factory shipment). If it is "1" (For line), change it to "0". © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 TROUBLESHOOTING 5 - 47...

[Page 208](#) © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 5 - 48...

[Page 209: Firmware Updating](#)

P. 6-1 "6.1 Firmware Updating with Download Jig" • Updating with PC connected P. 6-9 "6.2 Firmware Updating with TOSHIBA Viewer (e-STUDIO163/203 only)" Firmware Updating with Download Jig In this equipment, it is feasible to update the firmware automatically by connecting the download jig using the dedicated connector and turning ON the equipment.

[Page 210](#) K-PWA-DLM-320 Connector Mark for ROM installation direction Fig. 6-3 Jig board: K-PWA-DLM-320 Important: Pay attention to the direction of the ROM. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved FIRMWARE UPDATING 6 - 2 06/04...

[Page 211: Pwa-Dwnld-350-Jig](#)

Ensure that the firmware to be updated is for the intended model. • If the firmware for e-STUDIO166/206 is updated on e-STUDIO163/203 by mistake, a C94 error message appears when the power is turned OFF and then back ON after the update.

[Page 212](#) Do the download jig and the equipment operate properly? : ON Fig. 6-8 Turn OFF the power, remove the download jig and install the rear cover. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved FIRMWARE UPDATING 6 - 4 06/04...

[Page 213](#) After the updating is completed, check each data version in the Setting Mode (08) to confirm that the data was overwritten properly. 08-900: System ROM version © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 FIRMWARE UPDATING 6 - 5...

[Page 214: Writing The Data To The Download Jig \(Pwa-Dwnld-350-Jig\)](#)

(model 1881) Minato Electronics MODEL 1893/1895/1931/1940 PWA-DL-ADP-350-1931 (or equivalent) (model 1931) model 1881 model 1931 (LV650) Fig. 6-10 PWA-DL-ADP-350-1881 Fig. 6-11 PWA-DL-ADP-350-1931 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved FIRMWARE UPDATING 6 - 6 08/04...

[Page 215: K-Pwa-Dlm-320](#)

LED blinks slowly (at an interval of 0.8 sec.). If the LED blinks fast (at an interval of 0.1 sec.), the rewriting has been failed. Turn OFF the power of the equipment and remove the download jig. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 FIRMWARE UPDATING...

[Page 216](#) Note: Be sure to print out the list to confirm the firmware version for the ADF. P. 2-11 "2.2.4 List Print Mode (9S)" e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved FIRMWARE UPDATING 6 - 8 07/02...

[Page 217: Firmware Updating With Toshiba Viewer](#)

Firmware Updating with TOSHIBA Viewer (e-STUDIO163/203 only) Using the TOSHIBA Viewer, you can download the firmware from the PC to this copier for updating. Important: • Data to be downloaded should be stored in the same drive as the TOSHIBA Viewer program.

[Page 218](#) The Service setting dialog box appears. 3) Enter the password "TSBSERVICE". Fig.

6-15 4) Click [OK]. The Download firmware update dialog box appears. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved FIRMWARE UPDATING 6 - 10 06/11...

[Page 219](#) Bank 3: (Not used) • When an inappropriate file is selected for the bank, the following message is displayed. Select the appropriate file. Fig. 6-18 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 FIRMWARE UPDATING 6 - 11 06/11...

[Page 220](#) 8) To continue downloading the data file, check that the equipment reboots and goes into the ready status, and then repeat the procedure from step 1. e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved FIRMWARE UPDATING 6 - 12...

[Page 221: General Description](#)

2) Only installation by hardware wizard can recognize e-STUDIO163/166/203/206. 3) If the TOSHIBA Viewer USB driver is already installed, the software update tool USB driver cannot be. Delete the corresponding COM port on the Device Manager window and then start the installation of the software update tool USB driver.

[Page 222](#) Select the firmware data file to be updated on the Local Firmware Data window (in the figure below, "rom_L_V52.bin" is selected). Double-click the file or click [Open (O)] to open it. Fig. 6-23 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved FIRMWARE UPDATING 6 - 14 07/05...

[Page 223](#) Perform step (8) when you want to update all the data in one go. Perform the following procedure when you want to update the data individually. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 FIRMWARE UPDATING...

[Page 224](#) The Program and Function check boxes are selected in the following example.) Fig. 6-26 Click [Selected Area]. The Attention window appears. Click [Yes]. Fig. 6-27 e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved FIRMWARE UPDATING 6 - 16 07/05...

[Page 225](#) When correctly completed: All the LEDs "A", "B" and "C" blink. • On an update error: All the LEDs of D are lit. © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 FIRMWARE UPDATING 6 - 17 07/05...

[Page 226](#) After the updating is completed, check each data version in the Setting Mode (08) to confirm that the data were overwritten properly. 08-900: System firmware ROM version 08-921: FROM internal program e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved FIRMWARE UPDATING 6 - 18...

[Page 227: Power Supply Unit](#)

The following is an output channel for the cover switch line. 1) +24V +24VCOV-OFF: CN104 Pins 21 and 22 Output to the MAIN board, PFU (via MAIN board) © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 POWER SUPPLY UNIT 7 - 1 06/04...

[Page 228: Fuse](#)

Contact image sensor unit +24VDF F202: 4A +24VCOV-OFF MAIN board Toner motor F201: 4A Main motor Exhaust fan Auto-toner sensor Discharge LED Coin controller e-STUDIO163/166/203/206 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved POWER SUPPLY UNIT 7 - 2...

[Page 229: Configuration Of Power Supply Unit](#)

Configuration of Power Supply Unit CN104 CN113 CN108 CN105 Regulator CN101 CN106 Fig. 7-1 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 POWER SUPPLY UNIT 7 - 3 06/04...

[Page 230](#) © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved POWER SUPPLY UNIT 7 - 4...

[Page 231: Ac Wire Harness](#)

WIRE HARNESS CONNECTION AC Wire Harness Fig. 8-1 © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO163/166/203/206 WIRE HARNESS CONNECTION 8 - 1 06/04...

[Page 232](#) © 2005 - 2009 TOSHIBA TEC CORPORATION All rights reserved WIRE HARNESS CONNECTION 8 - 2...

[Page 233](#) 8.2 DC Wire Harness 8.2.1 e-STUDIO163/203 07/02...

[Page 234](#) 8.2.2 e-STUDIO166/206 07/02...

[Page 235: Electric Parts Layout](#)

8.3 Electric Parts Layout [A] Scanner, control panel [B] Power supply section, switches [C] Laser unit, fuser unit, toner cartridge section [D] Developer unit section CTIF THMO2 CTRG LPNL LAMP1 LAMP2 THMS4 THMO1 THMS1 THMS2 THMO3 THMS3 [E] Driving section [F] Drawer section [G] Bypass unit CLT1...

This manual is also suitable for:

[E-studio163E-studio203E-studio206](#)

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