



Toshiba MJ-6101 Service Manual

Hole punch unit

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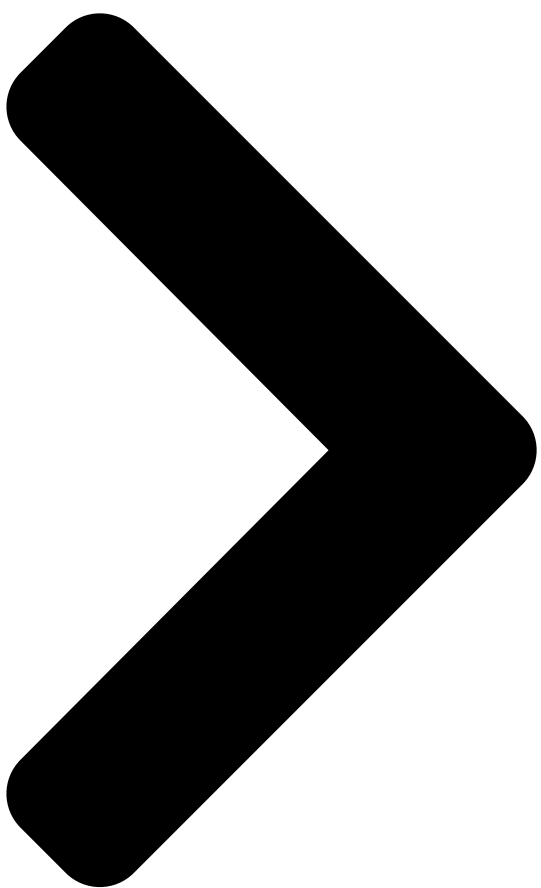
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SERVICE MANUAL **TC**

HOLE PUNCH UNIT

MJ-6101/6103/6104/61

05/6106

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File No. SME05002210
R05092196004-TTEC
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Summary of Contents for Toshiba MJ-6101

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[Page 3](#) Before using the wrist band, pull out the power cord plug of the equipment and make sure that there is no uninsulated charged objects in the vicinity. 16)For the recovery and disposal of used MJ-6101/6103/6104, consumable parts and packing materials, follow the relevant local regulations/rules.

[Page 4](#) 17)After completing installation, servicing and maintenance of the MJ-6101/6103, return the MJ-6101/ 6103/6104 to its original state, and check operation. 18)When you move the finisher, do not move it in the direction of the arrow as shown in the figure below otherwise it might topple over.

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MJ-6101/6103/6104/6105/6106N: □ □8.0 mm (□□0.315 in.) MJ-6101/6103/6104/6105/6106F: □ □6.5 mm (□□0.256 in.) MJ-6101/6103/6104/6105/6106S: □ □6.5 mm (□□0.256 in.) © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 SPECIFICATIONS 1 - 1 17/03...

[Page 8](#) The width of the entrance guide is also MJ-6103 : DEEP VIOLET GRAY different between MJ-6101 and MJ- MJ-6104 : FAIR WHITE 6103/MJ-6104. MJ-6105/6106 : JET BLACK MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved SPECIFICATIONS 1 - 2 16/06...

[Page 9](#) 3.15±0.04in. 80±1 mm / 3.15±0.04in. 12±3 mm / 12±3 mm / 0.4±0.12in. 0.4±0.12in. [2] 2-Hole / 3-Hole (MJ-6101/6103/6104/6105/6106N) [4] 4-Hole (MJ-6101/6103/6104/6105/6106S) X±3 mm / X±3 mm / X±0.12in. X±0.12in. 21±1 mm / 70±1 mm /...

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[Page 11](#) GENERAL DESCRIPTION Main Components Rear cover Front cover Jam release knob Punched scrap box Fig. 2-1 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 GENERAL DESCRIPTION 2 - 1...

[Page 12](#) Skew sensor (SEN) Skew sensor (LED) Sideways adjustment motor Punched scrap full sensor (LED) Hole punch control PC board (PNC board) Front cover sensor MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved GENERAL DESCRIPTION 2 - 2...

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[Page 14](#) Detects the punched scrap full state.(Light 1-24 sensing part) 3) PC board Symbol Name Function Remarks Hole punch control PC board (PNC Controls the hole punch unit. 2-14 board) MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved GENERAL DESCRIPTION 2 - 4...

[Page 15](#) Paper position sensor (LED) (S6-1) drive Skew sensor (LED) (S7-1) circuit Punched scrap full sensor (LED) (S8-1) Fig. 2-5 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 GENERAL DESCRIPTION 2 - 5 12/12...

[Page 16](#) Paper position sensor (LED) (S6-1) drive Skew sensor (LED) (S7-1) circuit Punched scrap full sensor (LED) (S8-1) Fig. 2-6 MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved GENERAL DESCRIPTION 2 - 6 16/06...

[Page 17](#) Data communication (RxD and TxD) between the hole punch unit and the Finisher has adopted the serial communication system which does not allow checking whether the signals are transmitted/ received properly using testing devices in the field. © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 GENERAL

DESCRIPTION...

[Page 18](#) TRMT-STEP Finisher Hole punch unit TRMT-CUR (CN7) (CN1) TRMT-MD0 TRMT-MD1 Fig. 2-9 MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved GENERAL DESCRIPTION 2 - 8 16/06...

[Page 19](#) The unit does not detect paper jams. Instead, the unit transmits an error signal to the Finisher only when the unit has detected abnormality in its motors or sensors. © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106...

[Page 20](#) The adjustable range of skew is ± 0.6 degrees. The adjustment requires approx. 0.15 seconds. Skew home position sensor Punching unit Skew adjustment motor Skew sensor (SEN) Skew sensor (LED) Fig. 3-1 MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved DESCRIPTION OF OPERATIONS 3 - 2...

[Page 21](#) Punching unit Paper position sensor (SEN) Paper position sensor (LED) Sideways deviation Sideways adjustment motor home position sensor Fig. 3-2 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 DESCRIPTION OF OPERATIONS 3 - 3...

[Page 22](#) The combinations of these positions and light status are shown below. Punch home position sensor (S4) Punching sensor (S5) Position 1 Transmit Shut off Position 2 Transmit Transmit MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved DESCRIPTION OF OPERATIONS 3 - 4...

[Page 23](#) 6104/6105/6106S 4 holes (Sweden) As for the MJ-6101/6103/6104/6105/6106E/N/F, the punch motor (M3) rotates in a normal direction or in a reverse direction so that their actuators reciprocate between the positions 1 and 2. Paper is thus punched out at the timing along with this reciprocating movement. Namely, 1 punching operation is performed when the actuator has gone half round.

[Page 24](#) • MJ-6101/6103/6104/6105/6106N Reverse Normal rotation rotation Fig. 3-5 • MJ-6101/6103/6104/6105/6106F Reverse Normal rotation rotation Fig. 3-6 MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved DESCRIPTION OF OPERATIONS 3 - 6 16/06...

[Page 25](#) • MJ-6101/6103/6104/6105/6106S Reverse rotation Fig. 3-7 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 DESCRIPTION OF OPERATIONS 3 - 7 16/06...

[Page 26](#) High speed Low speed Transport roller Transport roller Gear Gear Transport motor Transport motor Fig. 3-8 MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved DESCRIPTION OF OPERATIONS 3 - 8...

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[Page 28](#) MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved DESCRIPTION OF OPERATIONS 3 - 10...

[Page 29](#) Front lower cover Fig. 4-1 [B] Rear lower cover Release 2 latches and take off the rear lower cover. Rear lower cover Fig. 4-2 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 DISASSEMBLY AND ASSEMBLY 4 - 1 06/04...

[Page 30](#) Open the front cover. Pull out the knob. Knob Fig. 4-4 Remove 3 screws and take off the front cover. Front cover Fig. 4-5 MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved DISASSEMBLY AND ASSEMBLY 4 - 2 06/04...

[Page 31](#) [F] Right cover Remove 2 screws. Slide the right cover upward and take it out toward the lower right. Right cover Fig. 4-8 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 DISASSEMBLY AND ASSEMBLY 4 - 3...

[Page 32](#) Disconnect 1 connector. Release the harnesses from 3 clamps. Fig. 4-9 Remove 2

screws and take off the skew adjustment motor. Skew adjustment motor Fig. 4-10
MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved
DISASSEMBLY AND ASSEMBLY 4 - 4...

[Page 33](#) Disconnect 1 connector. Remove 2 screws and take off the sideways adjustment motor. MJ-6101/MJ-6103 Sideways adjustment motor Fig. 4-12 MJ-6104/MJ-6105/MJ-6106 Sideways adjustment motor Fig. 4-13 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 DISASSEMBLY AND ASSEMBLY 4 - 5 16/06...

[Page 34](#) Take off the rear cover. □ P. 4-2 "[C] Rear cover" Remove 4 screws and take off the circuit board bracket. Circuit board bracket Fig. 4-16 MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved DISASSEMBLY AND ASSEMBLY 4 - 6 16/06...

[Page 35](#) 2 bushings, 1 motor damper Transport motor and take off the transport motor. Bushing Screw damper Motor damper Bushing Screw damper Fig. 4-18 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 DISASSEMBLY AND ASSEMBLY 4 - 7...

[Page 36](#) Disconnect 4 connectors from the hole punch control PC board. Fig. 4-19 MJ-6104/MJ-6105/MJ-6106 Fig. 4-20 Remove 2 springs. Spring Spring Fig. 4-21 MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved DISASSEMBLY AND ASSEMBLY 4 - 8 16/06...

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[Page 38](#) □ P. 4-2 "[D] Front cover" Take off the upper cover. □ P. 4-3 "[E] Upper cover" Rotate the actuator. Fig. 4-25 MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved DISASSEMBLY AND ASSEMBLY 4 - 10 06/04...

[Page 39](#) □ P. 4-3 "[E] Upper cover" Rotate the actuator so that it does not contact the punch home position sensor. Fig. 4-28 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 DISASSEMBLY AND ASSEMBLY 4 - 11...

[Page 40](#) Rotate the actuator so that it does not contact the punch sensor. Fig. 4-30 Disconnect 1 connector. Release the latch and take off the punch sensor. Punching sensor Fig. 4-31 MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved DISASSEMBLY AND ASSEMBLY 4 - 12...

[Page 41](#) Disconnect 1 connector and remove 1 screw from the lower entrance guide to take off Skew sensor (LED) each skew sensor (LED). Lower entrance guides Fig. 4-34 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 DISASSEMBLY AND ASSEMBLY 4 - 13...

[Page 42](#) Paper position sensor (LED) Disconnect 1 connector, remove 1 screw, and take off each paper position sensor (light emitting) from the punching unit. Fig. 4-36 MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved DISASSEMBLY AND ASSEMBLY 4 - 14 07/03...

[Page 43](#) Disconnect 1 connector, remove 1 screw, and take off each punched scrap full sensor (LED). Punched scrap full sensor (LED) Fig. 4-38 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 DISASSEMBLY AND ASSEMBLY 4 - 15 11/04...

[Page 44](#) MJ-6104/MJ-6105/MJ-6106 Fig. 4-40 Remove 4 screws and take off the hole punch control PC board. Hole punch control PC board Fig. 4-41 MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved DISASSEMBLY AND ASSEMBLY 4 - 16 16/06...

[Page 45](#) □ P. 4-8 "[A] Punching unit" Transport guides Remove 2 screws and take off both the upper and lower transport guides. Fig. 4-44 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 DISASSEMBLY AND ASSEMBLY 4 - 17 16/06...

[Page 46](#) Remove 1 E-ring and 1 bushing from the front side of the shaft. E-ring Bushing Fig. 4-46 Take off the transport roller. Transport roller Fig. 4-47 MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved DISASSEMBLY AND ASSEMBLY 4 - 18...

[Page 47](#) 9: +0.66mm 10: +0.88mm 11: +1.10mm If the adjustment values can be confirmed from the pre-change board, check them from the connected equipment and then set them into the post-change board. © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 ADJUSTMENT...

[Page 48](#) Turn the power of the equipment ON. The finisher enters into the stopping position adjustment mode. LED1 on the finisher control panel blinks. The number of times it blinks indicates the current adjustment value. MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved ADJUSTMENT 5 - 2 16/06...

[Page 49](#) Turn the power of the equipment OFF. Turn all the bits of SW1 (DIP-SW) on the finisher control PC board OFF. Install the board access cover of the Finisher. © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 ADJUSTMENT...

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[Page 51](#) Is the wiring between the hole punch control PC board (HP) and skew adjustment motor (M1) correct? □NO Correct the wiring. □ 1) Replace the skew adjustment motor (M1). 2) Replace the hole punch control PC board (HP). © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 TROUBLESHOOTING 6 - 1...

[Page 52](#) Is the wiring between the hole punch control PC board (HP) and sideways adjustment motor (M2) correct? □NO Correct the wiring. □ 1) Replace the punch sideways adjustment motor (M2). 2) Replace the hole punch control PC board (HP). MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 6 - 2...

[Page 53](#) Is the wiring between the hole punch control PC board (HP) and skew adjustment motor (M1) correct? □NO Correct the wiring. □ 1) Replace the skew adjustment motor (M1). 2) Replace the hole punch control PC board (HP). © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 TROUBLESHOOTING 6 - 3...

[Page 54](#) Is the conductor pattern on the hole punch control PC board (HP) open circuited or short circuited? □YES Replace the hole punch control PC board (HP). □ Replace the finisher control PC board. MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved TROUBLESHOOTING 6 - 4...

[Page 55](#) Is the conductor pattern on the hole punch control PC board (HP) open circuited or short circuited? □YES Replace the hole punch control PC board (HP). □ Replace the finisher control PC board. © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 TROUBLESHOOTING 6 - 5...

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[Page 57](#) *3: Page-Item (P-I) is described in the column of the Parts list. *4: This unit may require replacement once or more over the period of machine warranty because of deterioration or damage. Replace them as needed. © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 MAINTENANCE...

[Page 58](#) Attach the ROM to the download jig. Make sure that the ROM and its direction are correct. Connector Mark for ROM installation direction Fig. 7-2 Turn OFF the power of the equipment. MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MAINTENANCE 7 - 2 12/12...

[Page 59](#) Connect the download jig with the jig connector (CN9) on the finisher control PC board. Download jig Fig. 7-4 Set the DIP-SW4 on the hole punch control PC board to ON. 1 2 3 4 Fig. 7-5 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved

[Page 60](#) (15) Install the finisher board access cover. 7.2.2 MJ-6104/6105/6106 (Firmware updating with USB device) Refer to "FIRMWARE UPDATING" in the Service Manual for MFP. MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MAINTENANCE 7 - 4 16/06...

[Page 61](#) Skew adjustment motor Punched scrap S8-1 Transport motor full sensor (LED) Punched scrap S8-1 full sensor (SEN) Fig. 8-1 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 ELECTRIC CIRCUIT 8 - 1 12/12...

[Page 62](#) S7-1 LED-SK1 Skew sensor (LED) S7-1 LED-SK2 PMT-F Punch motor PMT-R S7-2 AN-SK1 P24V Skew sensor (SEN) S7-2 AN-SK2 P24V Fig. 8-2 MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved ELECTRIC CIRCUIT 8 - 2 12/12...

[Page 63](#) S7-1 LED-SK1 Skew sensor (LED) S7-1 LED-SK2 PMT-F Punch motor PMT-R S7-2 SNS-SK1 P24VA Skew sensor (SEN) S7-2 SNS-SK2 P24VA Fig. 8-3 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 ELECTRIC CIRCUIT 8 - 3 16/06...

[Page 64](#) Circuit Diagram 8.2.1 MJ-6101/MJ-6103 Fig. 8-4 MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved ELECTRIC CIRCUIT 8 - 4 12/12...

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[Page 71](#) • Circuit Diagram (2) Fig. 8-11 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 ELECTRIC CIRCUIT 8 - 11 12/12...

[Page 72](#) • Circuit Diagram (3) Fig. 8-12 MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved ELECTRIC CIRCUIT 8 - 12 12/12...

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[Page 75](#) 10P/CH/1005-3 10P/CH/1005-3 C309 10P/CH/1005-3 R318 30K/C/1005 C311 1000P/CH/1005 NOT MOUNT R317 R327 0`/OT/C/1005 10K/F/C/1005 0`/OT/C/1005 R307 0.1`/B/1005 0.2`1/2W/F/C/3225 R308 0.2`1/2W/F/C/3225 100`35V/CE-10 Fig. 8-15 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved MJ-6101/6103/6104/6105/6106 ELECTRIC CIRCUIT 8 - 15 16/06...

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1K/C/1005 1K/C/1005 1K/C/1005 1K/C/1005 1K/C/1005 1K/C/1005 1K/C/1005 560[`]/C/1005
1K/C/1005 1K/C/1005 1K/C/1005 1K/C/1005 1K/C/1005 1K/C/1005 1K/C/1005 Fig. 8-18
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[Page 79](#) R333 C327 10K/C/1005 1000P/B/1005 R367 R375 13K1/16W/F/C/1005-1 R369
22K/F/C/1005 47K/F/C/1005 100[^]35V/CE-10 NOT MOUNT NOT MOUNT 100[`]/C/1005
UDZV/TE/17/30B/C-E R301 10K/C/1005 C301 0.1[^]/B/1005 Fig. 8-19 © 2006 - 2017 TOSHIBA TEC
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[Page 80](#) NOT MOUNT 0.1[^]/B/1005 R133 10[`]/C/1005 0.1[^]/B/1005 0.1[^]/B/1005 0.1[^]/B/1005
0.1[^]/B/1005 0.1[^]/B/1005 R134 0.1[^]/B/1005 10[`]/C/1005 0.1[^]/B/1005 0.1[^]/B/1005 0.1[^]/B/1005
0.1[^]/B/1005 1/292161/2 292161/6 292161/5 292161/7 CN10 Fig. 8-20
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[Page 81](#) 1) Hole punch control PC board Fig. 8-21 2) Rear side paper position sensor (LED)
Fig. 8-22 3) Rear side paper position sensor (SEN) Fig. 8-23 © 2006 - 2017 TOSHIBA TEC
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[Page 82](#) 4) Front side paper position sensor (SEN), Skew sensor (SEN), Punched scrap full
sensor (SEN) Fig. 8-24 5) Front side paper position sensor (LED), Skew sensor (LED), Punched
scrap full sensor (LED) Fig. 8-25 MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC
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[Page 83](#) 8.3.2 MJ-6104/6105/6106 [A] Hole punch control PC board [A-1] MJ-6104 Fig. 8-26
[A-2] MJ-6105/6106 Fig. 8-27 © 2006 - 2017 TOSHIBA TEC CORPORATION All rights reserved
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[Page 84](#) [D] Front side paper position sensor (SEN), Skew sensor (SEN), Punched scrap full
sensor (SEN) Fig. 8-30 [E] Front side paper position sensor (LED), Skew sensor (LED), Punched
scrap full sensor (LED) Fig. 8-31 MJ-6101/6103/6104/6105/6106 © 2006 - 2017 TOSHIBA TEC
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[Page 88](#) 1-11-1, OSAKI, SHINAGAWA-KU, TOKYO, 141-8562, JAPAN...

This manual is also suitable for:

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