

TOSHIBA

Toshiba KK-1600 Service Manual

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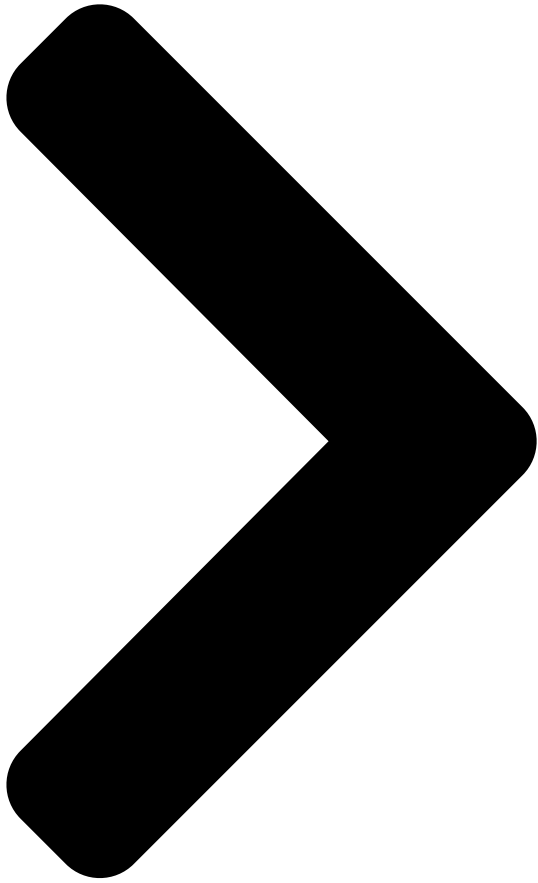
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STAPLER

KK-1600

File No. 31100019

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[Power Tool Toshiba HV6AS Instruction Manual](#)

Vacuum circuit breakers - fixed type 4.8 & 7.2kv voltage classes (39 pages)

Summary of Contents for Toshiba KK-1600

[Page 1](#) STAPLER KK-1600 File No. 31100019...

[Page 2](#) The installation and service should be done by a qualified service technician. When installing the KK-1600 to the Plain Paper Copier, be sure to follow the instructions described in the "Unpacking/Set-Up Procedure for the KK-1600" booklet which comes with each unit of the KK-1600.

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[Page 4: Specifications](#)

Staple capacity : 5000 staples Dimensions : 257 (W) x 423 (D) x 173 (H) mm Weight : Approx. 3.4 kg Power supply : 100V - 240V (Supplied from copier) October 2000 © TOSHIBA TEC 1 - 1 KK-1600 SPECIFICATIONS...

[Page 5: Outline](#)

2. OUTLINE 2.1 Names of Various Components STP power code STP power lamp STP base STP 02-01-01 STP staple cartridge STP staple unit STP 02-01-02 October 2000 © TOSHIBA TEC 2 - 1 KK-1600 OUTLINE...

[Page 6: Layout Of Electrical Parts](#)

2.2 Layout of Electrical Parts STP AC adapter STP LED PWA STP1 STP 02-02-01 STP2 SEN2 SEN1 STP 02-02-02 KK-1600 OUTLINE 2 - 2 October 2000 © TOSHIBA TEC...

[Page 7](#) PWA which controls the stapler. STP2 STP sensor PWA PWA which relays the sensor signals and motor drive signals. STP LED PWA PWA on which the power lamp (LED) is installed. October 2000 © TOSHIBA TEC 2 - 3 KK-1600 OUTLINE...

[Page 8: Harness Connection Diagram](#)

STP cover open switch COVER Staple unit adapter STP motor AC IN STP staple empty switch Empty sensor CONT STP home position sensor STP paper set sensor STP LED PWA STP 02-03-01 KK-1600 OUTLINE 2 - 4 October 2000 © TOSHIBA TEC...

[Page 9: Board Assembly](#)

2.4 Board Assembly STPL CONTROLLER JP16 JP13 JP14 JP11 JP12 JP10 MADE IN JAPAN STP 02-04-01 October 2000 © TOSHIBA TEC 2 - 5 KK-1600 OUTLINE...

[Page 10: Operational Description](#)

The STP consists of the AC adapter, STP CONT PWA, sensors, power indicator LED, staple unit, etc. The staple unit consists of the STP motor, STP Sensor PWA for relaying the sensor signals, mechanical drive section, etc. October 2000 © TOSHIBA TEC 3 - 1 KK-1600 OPERATIONAL DESCRIPTION...

[Page 11: Detection Of Abnormal Status](#)

STP paper set sensor detects the presence of paper. This error state is reset when staples are supplied causing the STP paper set sensor to detect the presence of staples. KK-1600 OPERATIONAL DESCRIPTION 3 - 2 October 2000 © TOSHIBA TEC...

[Page 12: Flow Chart](#)

STP power lamp ON Load paper into STP. (STP paper set sensor ON) STP staple empty switch Stamping stopped Supply staples STP motor operates to start stapling. STP 03-04-01 October 2000 © TOSHIBA TEC 3 - 3 KK-1600 OPERATIONAL DESCRIPTION...

[Page 13: Mechanical Description](#)

Staples are loaded in the cartridge and its capacity is about 5,000 staples. When the cartridge is supplied with staples or a new cartridge is installed, perform staple operation without staples (7 to 8 times) to feed staples to a position where stapling is possible. October 2000 © TOSHIBA TEC 4 - 1 KK-1600 MECHANICAL DESCRIPTION...

[Page 14: Circuit Description](#)

If the stapler is not at the home position when the power is turned on ("High" level), about 60 ms later the CCW signal is turned ON (changing from "Low" to "High") to operate the motor reversely allowing the stapler to return to the home position. October 2000 © TOSHIBA TEC 5 - 1 KK-1600 CIRCUIT DESCRIPTION...

[Page 15: Signal Description](#)

The STP staple empty switch detects the presence or absence of staples. A microswitch is used for the sensor. When staples have run out or no cartridge is mounted, the signal is detected at "Low" level. KK-1600 CIRCUIT DESCRIPTION 5 - 2 October 2000 © TOSHIBA TEC...

[Page 16: Timing Charts](#)

STP home position sensor • Staple operation (When staples have run out during operation) 200ms 200ms STP paper set sensor No staples STP staple empty switch STP home position sensor October 2000 © TOSHIBA TEC 5 - 3 KK-1600 CIRCUIT DESCRIPTION...

[Page 17](#) • Reverse operation (When the stapler is not at the home position at power on time) POWER ON STP paper set sensor STP staple empty switch STP home position sensor 60ms KK-1600 CIRCUIT DESCRIPTION 5 - 4 October 2000 © TOSHIBA TEC...

[Page 18: Disassembly And Replacement](#)

3. Release 2 hooks and remove STP staple cartridge. STP staple cartridge 321-1 Fig. 6-3 [B] STP bottom cover F 1. Remove one screw and detach connector cover. Connector cover Screw Fig. 6-4 October 2000 © TOSHIBA TEC 6 - 1 KK-1600 DISASSEMBLY AND REPLACEMENT...

[Page 19](#) 5. Remove 2 screws, release 2 hooks, and remove Hook stapler. Stapler Screw Fig. 6-7 6. Remove one screw and detach STP bottom cover F. Screw STP bottom cover F Fig. 6-8 KK-1600 DISASSEMBLY AND REPLACEMENT 6 - 2 October 2000 © TOSHIBA TEC...

[Page 20](#) 6. Detach one connector from STP controller PWA (J2) and release 3 clamps. Fig. 6-11 321-3 7. Remove one screw and remove STP cover open STP cover open switch switch. Screw 321-4 Fig. 6-12 October 2000 © TOSHIBA TEC 6 - 3 KK-1600 DISASSEMBLY AND REPLACEMENT...

[Page 21](#) 2. Detach STP bottom cover R. (See Fig. 6-9) 3. Detach AC adapter jack and the connectors from STP controller PWA (J1/J2/J5). 4. Release 4 clamps. AC adapter jack Fig. 6-16 KK-1600 DISASSEMBLY AND REPLACEMENT 6 - 4 October 2000 © TOSHIBA TEC...

[Page 22](#) AC adapter jack 3. Detach AC adapter jack and all connectors from STP controller PWA. 4. Remove 2 screws and remove STP controller PWA. controller PWA Fig. 6-19 October 2000 © TOSHIBA TEC 6 - 5 KK-1600 DISASSEMBLY AND REPLACEMENT...

[Page 23](#) 4. Detach the connectors from STP controller PWA (J3/J4) and release 2 clamps. Fig. 6-20 5. Remove 2 screws and remove STP staple unit. STP staple unit Screw Fig. 6-21 KK-1600

