

Auto-Toner Circuit; General Description - Toshiba e-STUDIO453 Service Manual

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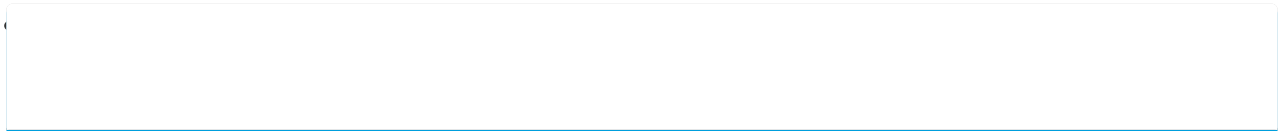
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Bookmarks



12.4 Auto-Toner Circuit

12.4.1 General description

(1) Function of the auto-toner circuit

- Detects the toner density in the developer material, and supplies toner when the density is lowered to a certain level.
- Detects that there is no toner left in the cartridge (toner-empty detection).

(2) The auto-toner circuit consists of the following:

- Auto-toner sensor : Detects the toner density.
- Control section
- Toner motor
- Display

Control panel

e-STUDIO350/352/353/450/452/453

DEVELOPMENT SYSTEM

: Controls the toner density so that the toner in the developer material is fixed to certain ratio.

: Supplies toner to the developer material.

: Indicates toner-empty information.

Display panel

Toner

Toner

motor

Auto-toner sensor

Developer material

Developer unit

Arithmetic and control unit

e-STUDIO352/353/452/453

FRAM

CPU

IC21

IC15

ASIC GA

North bridge

IC23

IC14

Control

D/A

voltage signal

converter

IC2

Toner density

signal

Fig. 12-401

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SYS board

e-STUDIO350/450

NVRAM

IC38

CPU

ASIC GA

IC52

IC54

LGC board

ASIC GA



TA8428

IC51

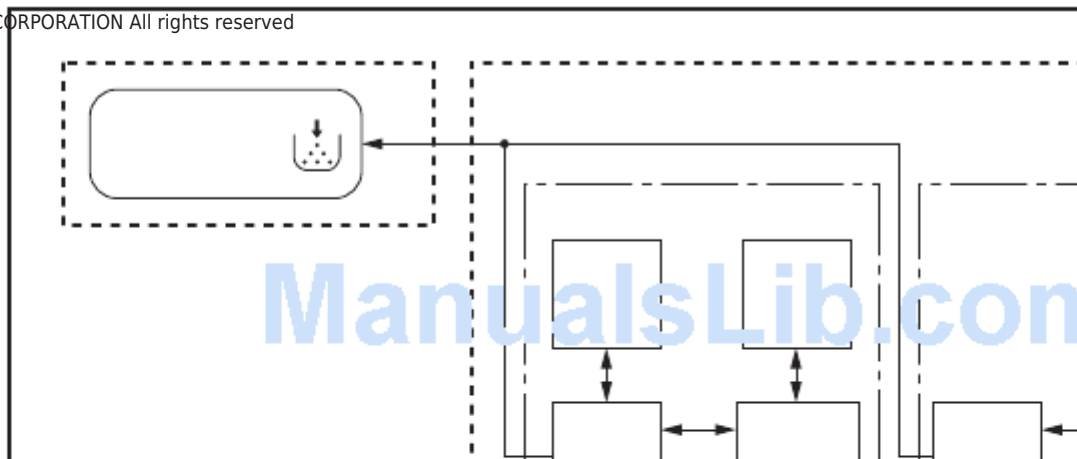


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Toshiba e-STUDIO2500c

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Toshiba e-studio3511, e-studio4511

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