<Operation>

Master Board PWB-A

A pulse signal is sent from pin 17 (P50/TA1) of IC1A to light up LA1 for the center manual exposure setting (EXP5). A LOW Exposure Lamp ON signal is output from pin 49 (APA1) of IC4A.

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Power Supply Unit PU2

The pulse signal is input to pin 3 of PJ19 and PU2 sets the Lamp voltage according to that signal.

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LA1 turns ON.

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During the copy cycle, a LOW Image Leading Edge signal (BASE) is output and the automatic exposure control begins.

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AE Sensor Board PWB-H

PD1H detects the intensity of the light striking it and PWB-H converts the light intensity to a corresponding voltage value, outputting it via pin 7 of IC1H. (The higher the intensity of the light striking PD1H, the lower the output voltage.)

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Master Board PWB-A

The analog voltage from PWB-H is input to pin 1 (AN0) of IC1A.

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PWB-A compares the input voltage with the reference voltage and increases the Lamp voltage if the input voltage is higher than the reference and decreases it if the input is lower than the reference. This is accomplished by varying the duty ratio of the pulse signal output from pin 17 (P50/TA0) of IC1A.

* The reference voltage value varies depending on the "Auto Expo. Level" setting of the User's Choice. It also depends on the optimum Exposure Lamp voltage under that setting.

Optimum Exposure Lamp Voltage / Choice	56V or Less	57V to 63V	64V or More
Lighter	1.45	1.53	1.59
Normal	1.80	1.80	1.80
Darker	2.15	2.07	2.01

(Unit: V