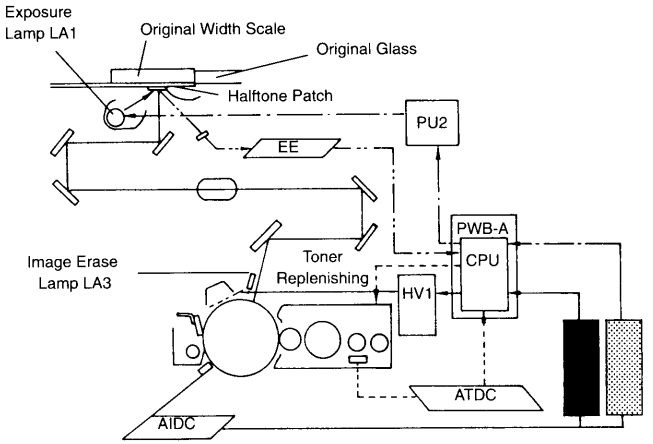
7 IMAGE STABILIZATION SYSTEM

◆ The following image stabilization controls are provided to ensure stabilized copy image.

Item	Quality	Purpose	Control
Initial Setting	Image density, gradation	To make initial settings of grid voltage (Vg), optimum Exposure Lamp voltage, and AE Sensor gain.	Sets the initial values for grid voltage correction, optimum Exposure Lamp voltage correction, and AE Sensor gain adjustment.
Regular correction	Image density	To compensate for any drop in image density due to a deteriorating PC Drum.	Corrects the grid voltage through AIDC Sensor control.
	Gradation	To compensate for any drop in the intensity of LA1 light due to a contaminated optical system.	Corrects the optimum Exposure Lamp voltage through AIDC control.
	Foggy background	To keep a given toner-to-carrier ratio of the developer in the Developer Mixing Chamber.	Provides toner replenishing control by means of the ATDC Sensor. (For details, see 13. DEVELOPMENT.)
Correction made immediately after Power Switch is turned ON	Image density, gradation	To compensate for any drop in PC Drum surface potential when the copier is cool immediately after the Power switch is turned ON.	Corrects the grid voltage and optimum Exposure Lamp voltage through AIDC Sensor control.
Correction for Faulty AIDC Sensor	Image density, gradation	To compensate for image density and gradation aggravated by a faulty AIDC Sensor.	Corrects the grid voltage and optimum Exposure Lamp voltage according to the time through which the PC Drum has turned and the copier has run.

◆ The following is the block diagram of the image stabilization system.



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