5 WATCHDOG (CPU OVERRUN MONITOR) FUNCTION

The watchdog function monitors whether any of the CPUs mounted in the copier overrun. If this function detects that a CPU overruns, the copier automatically resets the CPU, thereby restarting the logic circuit and mechanism.

Even if a copier CPU operates erratically due to electrical noise, therefore, the copier is able to recover from the faulty condition so that the number of visits made by the Technical Representative for CPU overrun can be minimized.

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5-1. Configuration

The copier has three printed-circuit boards each on which a CPU is mounted:
*SCP Board PWB-F that controls the optical system,
*Master Board PWB-A that controls the copier, Paper Feed Cabinet and Duplex Unit, and
*MSC Board PWB-B that controls the control panel and system.
In addition to these, each of the control boards for the Data Controller, Duplexing Document Feeder, and Sorter/Staple Sorter is equipped with a CPU.

The watchdog functions are summarized as follows:
*Each of the copier CPUs monitors whether or not it overruns.
*The MSC CPU monitors the communications conditions of the CPUs in the Duplexing Document Feeder and Data Controller.
*The Master CPU monitors the communications conditions of the CPUs in the Sorter and Staple Sorter.
*The control boards for the Paper Feed Cabinet and Duplex Unit do not have a CPU in them. Instead, the Master CPU in the copier controls their operations.

