◆ **ATDC Sensor Control Sequence**

① The ATDC Sensor reads the toner-to-carrier ratio data at the following timing to provide the basis for toner replenishing control:
The ATDC Sensor takes the reading for a 500-msec. period at 5-msec. intervals 20 msec. after a LOW Image Leading Edge signal (BASE) from SCP Board PWB-J has been input to Master Board PWB-A for each copy made.

② The mean value of the readings sampled is compared with the voltage (target value) corresponding to the T/C set by SCH-90 and the result is classified as follows:
   a) The mean value is lower than the target value and represents a T/C ratio that is higher than the set ratio by 1% or more.
   b) The mean value is lower than the target value and represents a T/C ratio that is higher than the set ratio by less than 1%.
   c) The mean value is higher than the target value and represents a T/C ratio that is lower than the set ratio by less than 0.5%.
   d) The mean value is higher than the target value and represents a T/C ratio that is lower than the set ratio by 0.5% or more.

③ Sub Hopper Toner Replenishing Motor M9 is energized for a period of time which depends on the category (a to d) the result of sampling fits into and the paper size being used.

*a) No toner replenishing takes place.

Paper Size	b) Fixed Amount Replenishing	c) Small Amount Replenishing	d) Large Amount Replenishing
	Replenishing Time (msec.)	Replenishing Time (msec.)	Replenishing Time (msec.)
A3	220	500	2000
A4	110	250	1000
A5	55	125	500
B4	165	375	1500
B5	85	190	750
11" × 17"	215	485	1940
Legal	135	310	1235
Letter	105	245	970
Invoice	60	120	485