12-6. ATDC Sensor

◆ ATDC Sensor

- ATDC Sensor UN4 installed on the underside of the Developer Mixing Chamber detects the varying toner-to-carrier ratio of the developer, which is circulated by the Developer Conveying Screw, as changes in the magnetic flux density. The magnetic flux density is converted to a corresponding voltage value which is applied to the analog port of IC1A on Master Board PWB-A.
- IC1A compares the ATDC Sensor output voltage with the reference voltage for 6% toner-to-carrier ratio [which can be varied by the ATDC Detection Level Mode (Tech. Rep. Choice SCH-90)] to control toner replenishment.

◆ ATDC Sensor Automatic Adjustment/Detection Circuit

- The sensitivity of the ATDC Sensor is automatically adjusted to the starter with a 6% T/C when the F8 test operation is run after fresh starter has been loaded.

