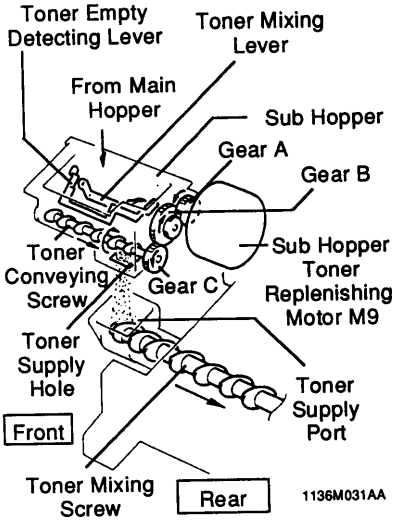
12-7. Sub Hopper Toner Replenishing Mechanism/Control

- Toner supplied from the Main Hopper is temporarily kept in the Sub Hopper before being fed to the Developing Unit. This is done to stabilize replenishing of toner and detection of a toner-empty condition.
- The toner replenishing time (the period of time during which Sub Hopper Toner Replenishing Motor M9 is kept energized) is determined according to the ATDC Sensor output level (which varies in three steps).



After the ATDC Sensor detection

↓

M9 is kept energized for a given period of time. [A LOW Remote signal is output from pin 50 (APA2) of IC4A on PWB-A.]

↓

Gear A mounted on the M9 shaft is turned counterclockwise.

↓

Gear C is turned counterclockwise via Gear B.

↓

The Toner Conveying Screw turns counterclockwise, causing toner to fall into the Toner Supply Port through the Toner Supply Hole.

↓

The Toner Mixing Screw then conveys the toner fallen onto it to the rear end of the Developing Unit.

