12-2. Developing Unit Drive Mechanism

- Drive is transmitted from the copier to the Developing Unit by Coupling Gears 1 and 2 when they mesh with each other.
- Coupling Gear 2 is spring-loaded. If the protruding part of Coupling Gear 1 makes contact with that of Coupling Gear 2 when the PC Unit is slid into the copier, spring-loaded Coupling Gear 2 is pushed back toward the rear of the copier allowing the PC Unit to be slid into position. When drive is later transmitted to the Developing Unit, Coupling Gear 2 is pushed to the front by the tension of the spring to mesh positively with Coupling Gear 1.

Copier

Drive from Main Drive Motor M1 is transmitted via Timing Belt B to Gear A.

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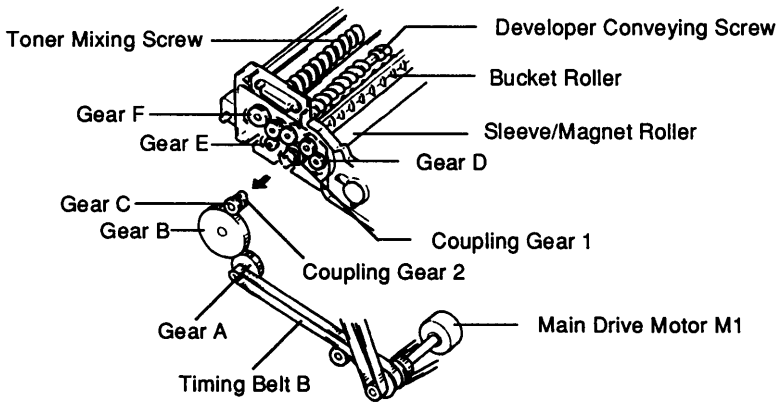
Gear C is turned by Gear B, causing Coupling Gear 2 to turn clockwise.

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Developing Unit

As Coupling Gear 1 turns clockwise, the Bucket Roller mounted on the same shaft as Coupling Gear 1 is turned.

- Gear D is turned clockwise by an intermediate gear. → The Sleeve/Magnet Roller is turned clockwise.
- The Bucket Roller is turned clockwise.
- Gears E and F are turned counterclockwise by intermediate gears. → The Developer Conveying and Toner Mixing Screws are turned counterclockwise.



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