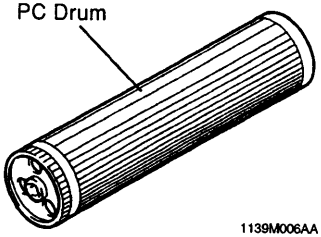
7 PC DRUM

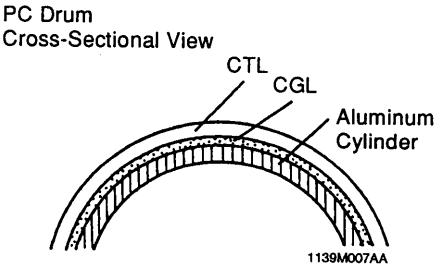
7-1. PC Drum

* The photoconductive drum used in this copier is the organic photoconductor (OPC) type.
* The drum is made up of two distinct, semiconductive materials on an aluminum alloy base. The outer of the two layers is called the Charge Transport Layer (CTL), while the inner layer is called the Charge Generating Layer (CGL).
* The PC Drum measures ϕ80 mm $\times$ 350 mm.

Handling Precautions

- This photoconductor exhibits greatest light fatigue after being exposed to light over an extended period of time. It must therefore be protected from light by a clean, soft cloth whenever the PC Unit has been removed from the copier.
- Further, use utmost care when handling the PC Drum to prevent it from being contaminated.





7-2. Drive and Grounding for the PC Drum

* When the PC Unit is slid into the copier, the Coupling Gear, driven by a timing belt and gear from Main Drive Motor M1, is engaged with the flange of the PC Drum. This connects the drive train for the PC Drum.
* The PC Drum is grounded to the frame of the copier through the Ground Point inside the rear of the PC Drum and the Drum Holding Shaft. When the PC Unit is slid into the copier, the Drum Holding Shaft contacts the Ground Point inside the PC Drum. This provides for assured grounding of the PC Drum. Conductive grease has been applied to the Ground Point.

