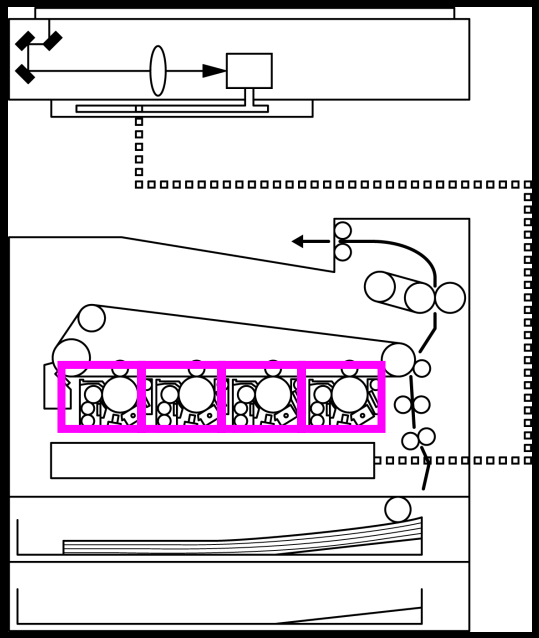
5. IU Section



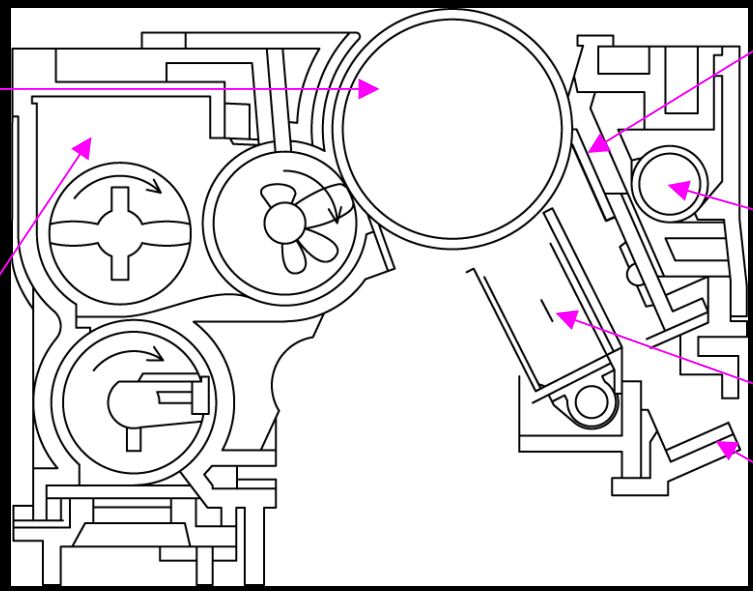
1. Improvements from 7920
2. Component Identification
3. PC Drum
4. PC Drum Charge Corona
5. Developing Unit
6. Cleaning Unit and Main Erase
7. Layout of Terminals
8. Development System
9. Operation for New IU

5.1 Improvements

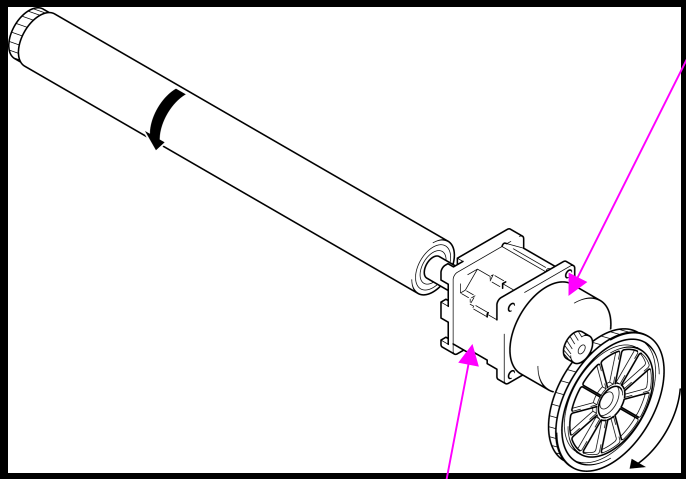
Developing System	2-component Magnetic Brush Developing (Non-contact)
PC Drum	OPC (High Sensitivity type is used for high copying speed)
IU Life	C,M,Y: 52K <Near Life: 50K, Stop: 52K> Bk: 82K <Near Life: 80K, Stop: 82K>
Drum Charge Cleaning Mechanism	Manual Cleaning Mechanism for Comb Electrode (For a longer IU life)
Main Eraser	Attached to LPH Assembly (Productivity increase in IU)
Ds	0.3 mm Ds: Gap between PC Drum & Mg. Roller

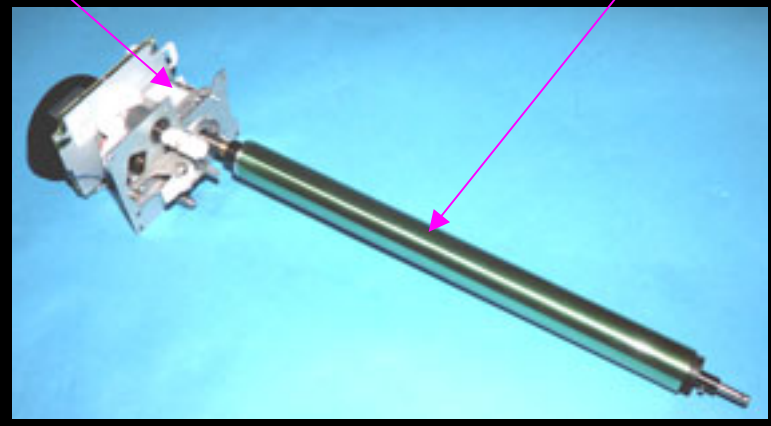
5.2 Component Identification

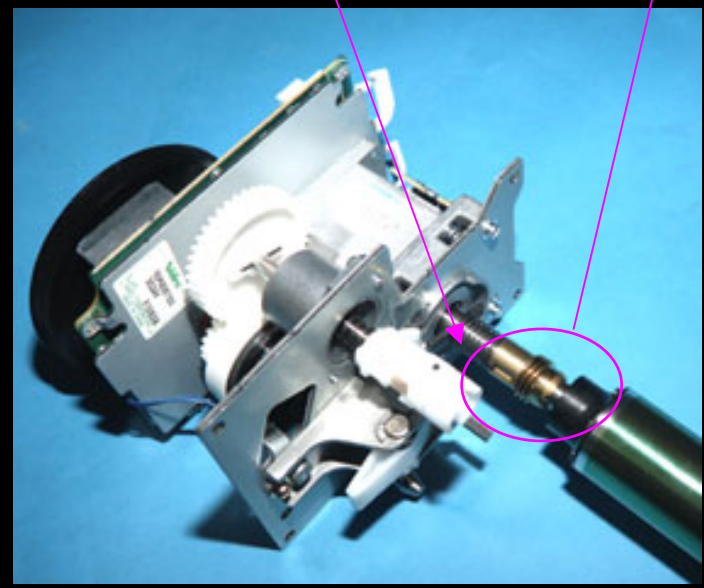




5.3 PC Drum


Drive Motor
Planetary Roller Section

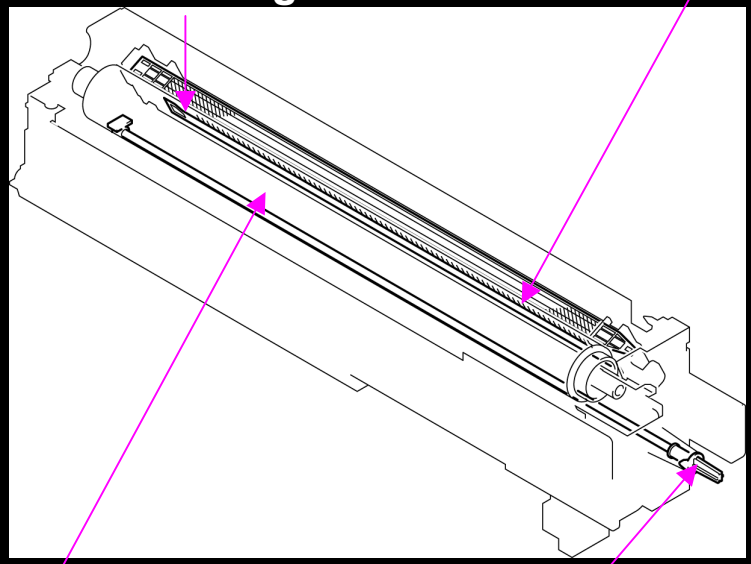

PC Drum


Shaft
Coupling

5.4 PC Drum Charge Corona

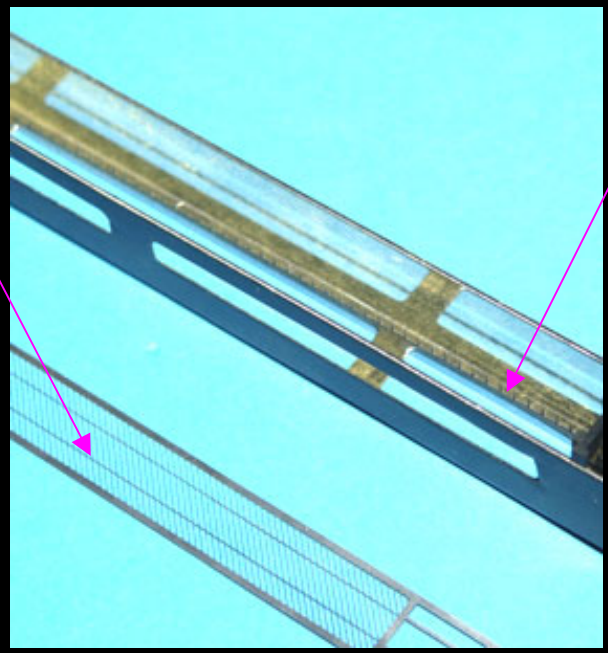
PC Drum Charge Corona

Grid Mesh



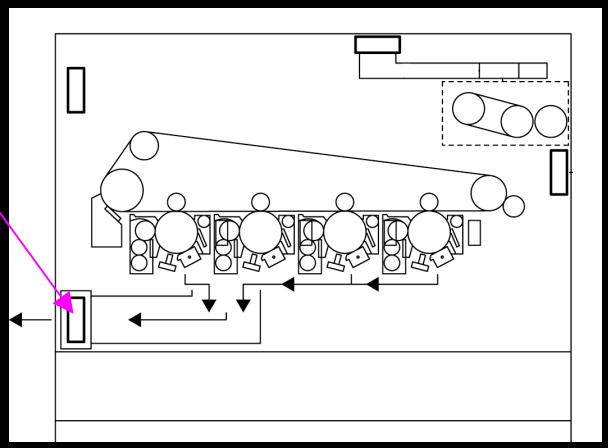
PC Drum

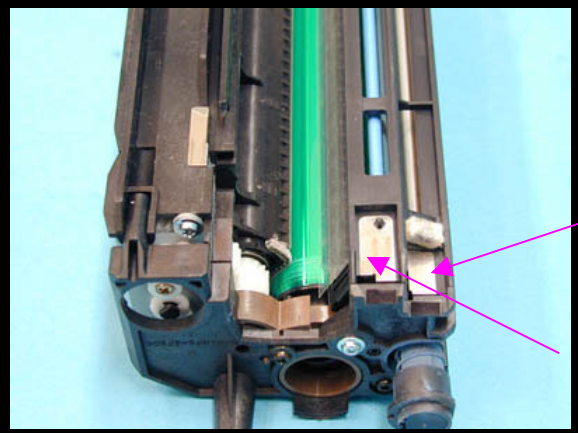
Comb Electrode Cleaning Lever



Comb Electrode

Ozone Filter



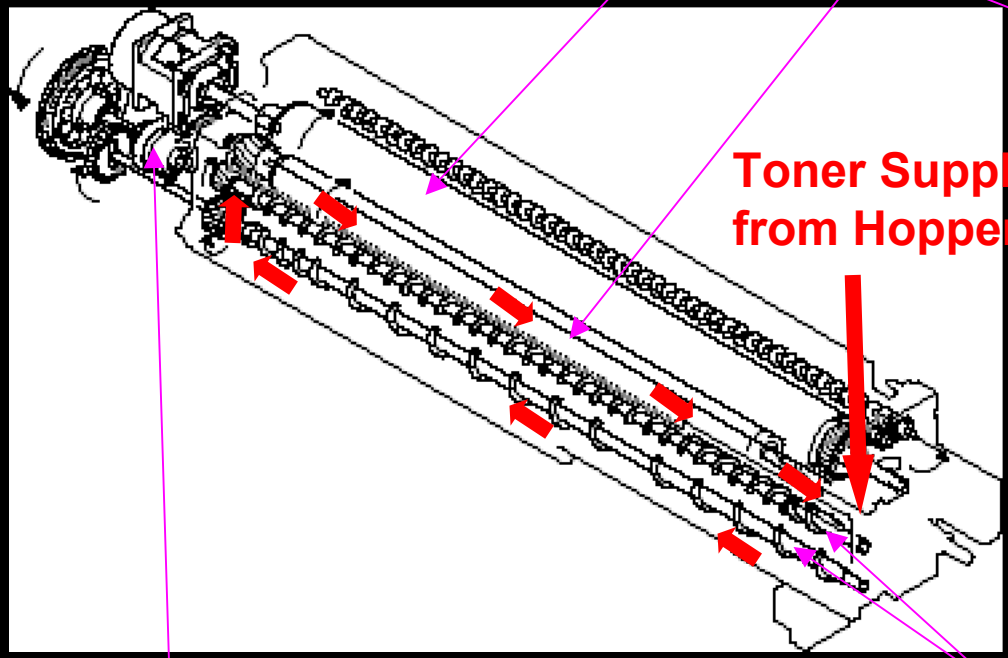


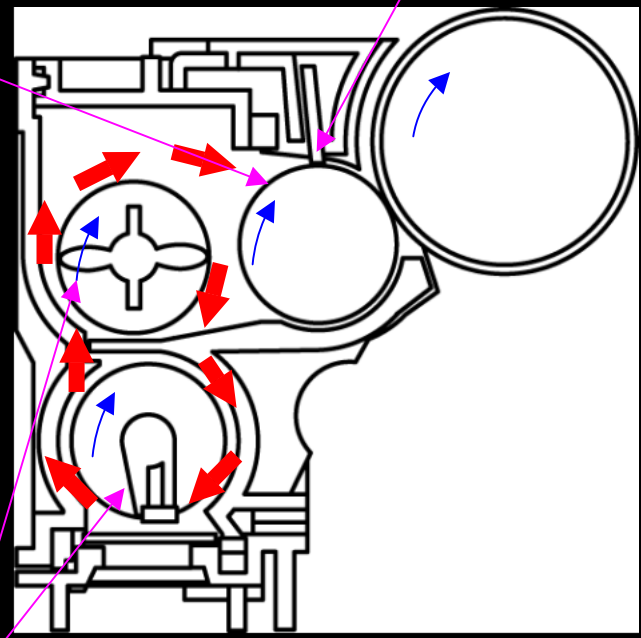
Grid Voltage

PC Drum Charge Output

5.5 Developing Unit

Construction and Drive



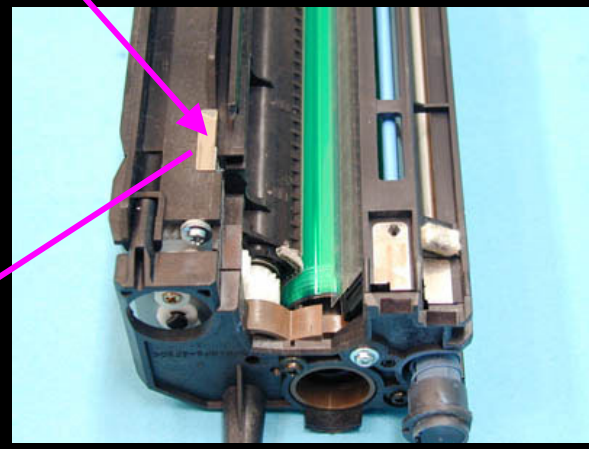


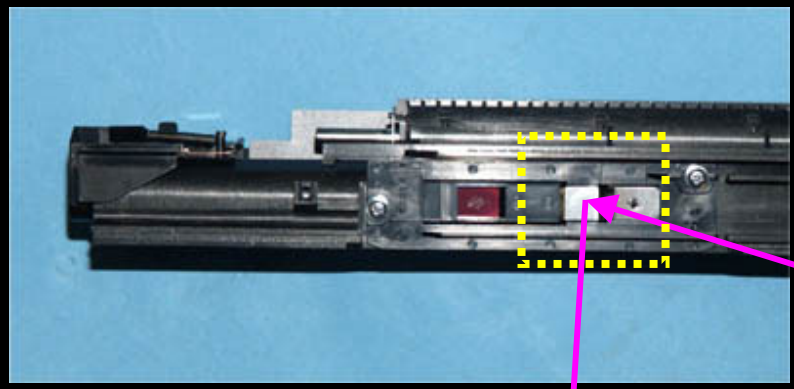
5.5.1 Developing and ATDC Sensor Window Bias

Sleeve/Magnet Roller

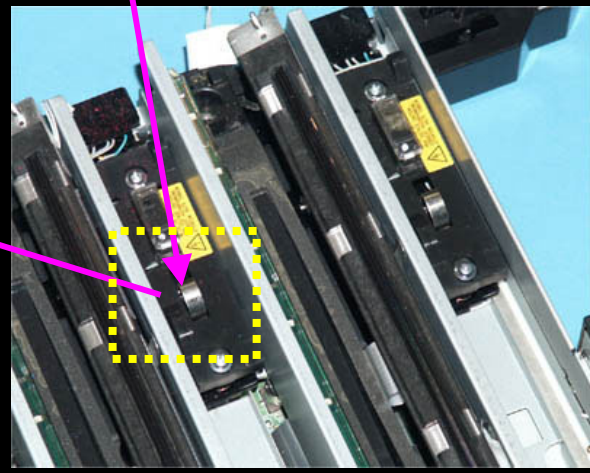


Developing Bias

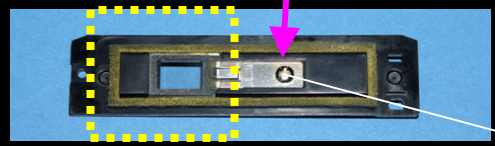




ATDC Bias



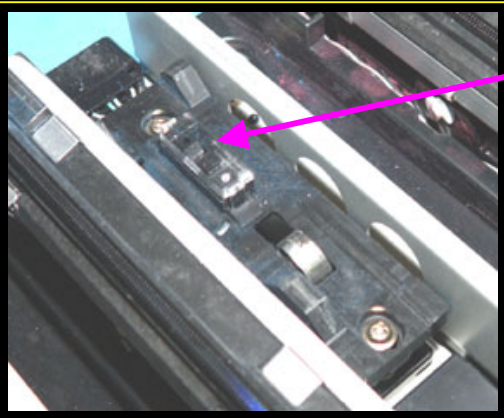
ATDC Window



Mounting Screw

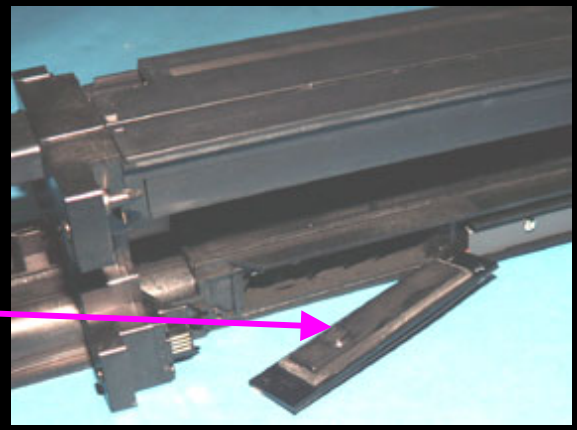
5.5.2 ATDC Sensor

ATDC Sensor for C, M, Y



Optical
ATDC Sensor

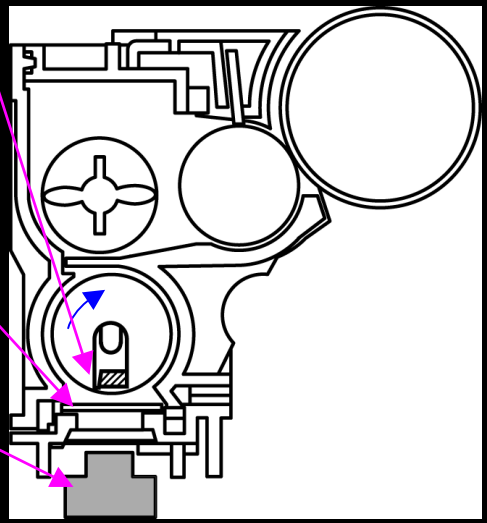
ATDC Sensor for Bk



Magnetic
ATDC Sensor

Magnetic
Brush

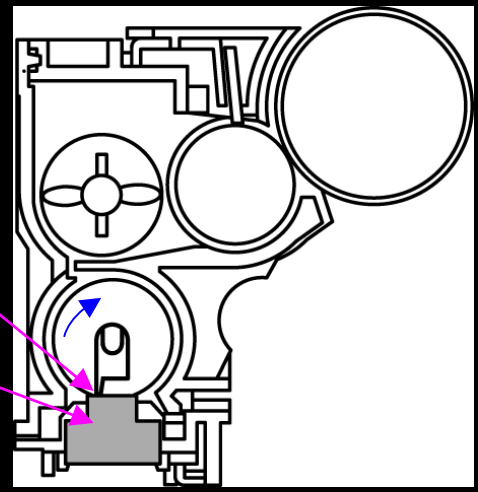
ATDC Sensor
Window



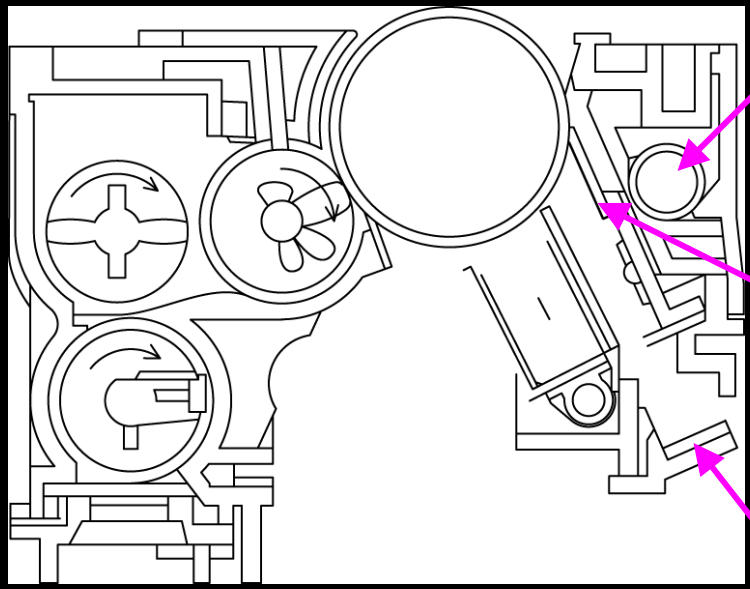
ATDC Sensor
(C, M, Y)

Mylar

ATDC Sensor
(Bk)



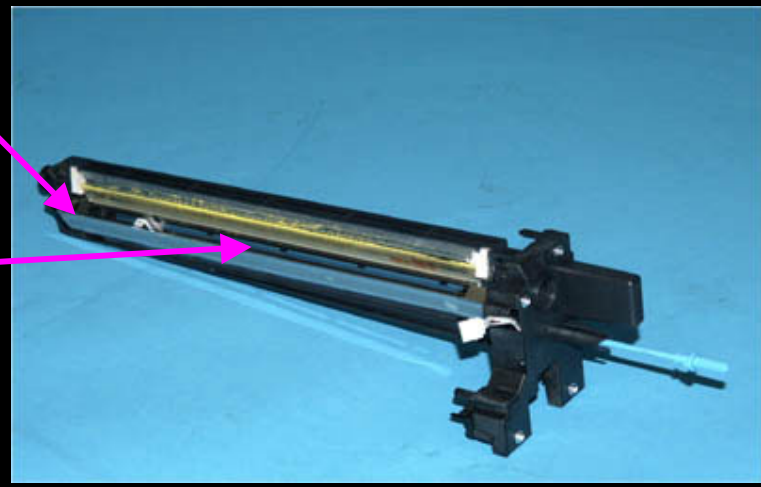
5.6 Cleaning Unit and Main Erase



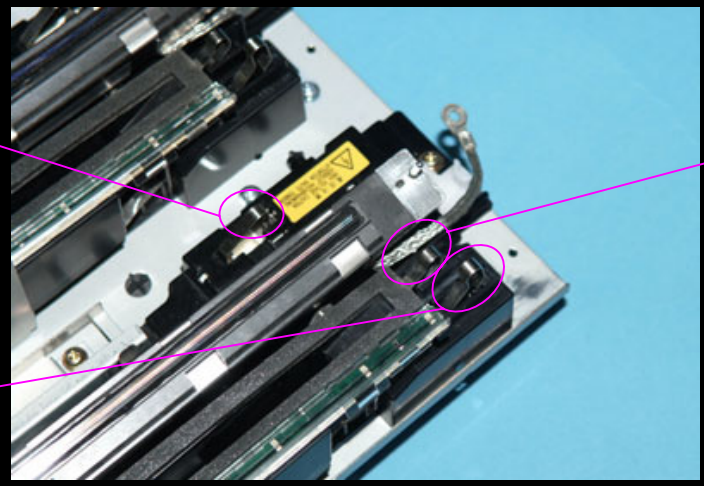
Conveying Coil

Cleaning Blade

Main Erase
(LPH Unit Side)



5.7 Layout of Terminals

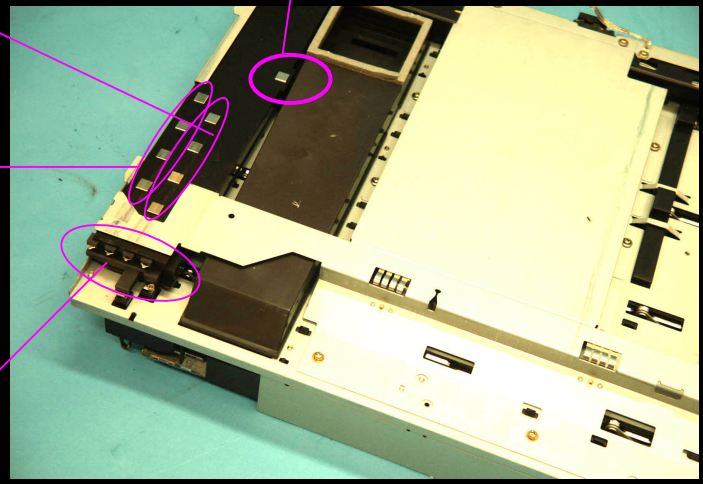


Grid Voltage (Bk, C, M, and Y from left to right)

ATDC Bias

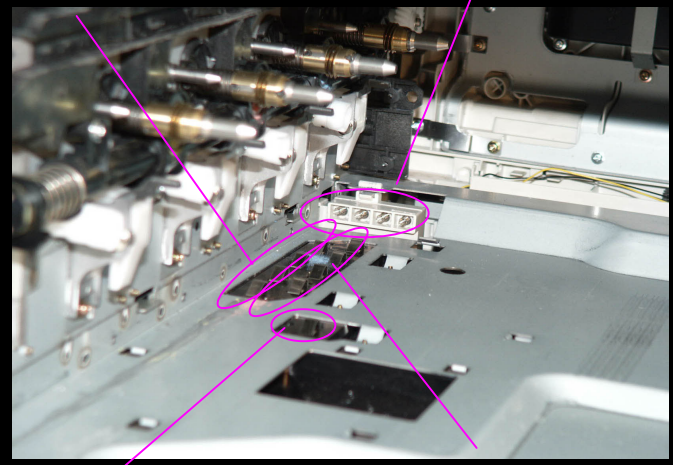
Developing Bias (Bk, C, M, and Y from left to right)

PC Drum Charge Output (Bk, C, M, and Y from left to right)



Developing Bias (Bk, C, M, and Y from right to left)

PC Drum Charge Output (Bk, C, M, and Y from left to right)

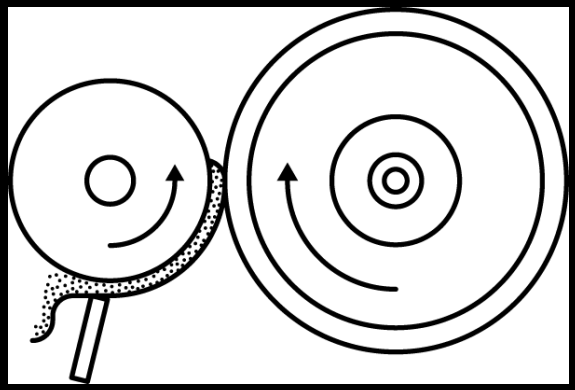


ATDC Bias

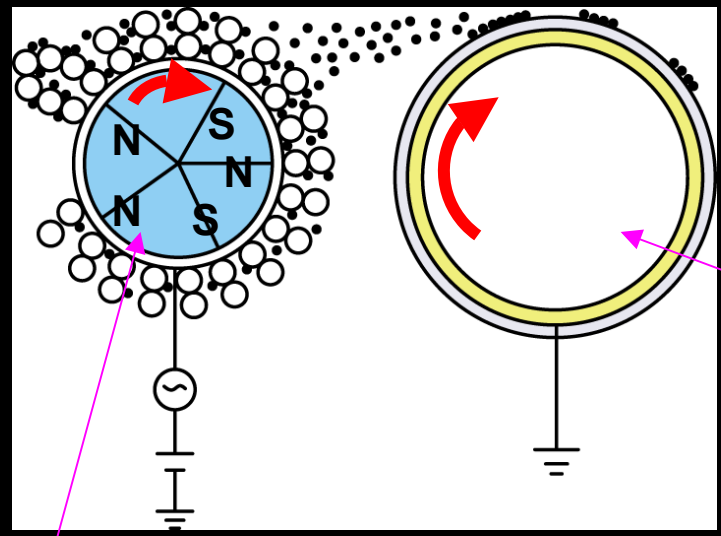
Grid Voltage (Bk, C, M, and Y from right to left)

5.8 Development System

Conventional System



New System



5.9 Operation for New IU

Timing and Operation for the detection of a new IU

Power OFF/ON, or 24V- ON after Front Door Opened & Closed

If all IUs are mounted and if any new IU installed

New IU detected



No New IUs detected

