# SERVICE BULLETIN

| | | |
|---|---|---|
| ☐ PROBLEM | ○ FUNCTION | ○ SAFETY |
| | ○ SERVICEABILITY | ○ OTHERS |
| ■ OTHERS | ○ PERFORMANCE | ● CORRECTION |
| | ○ SAFETY REGULATION | ○ OTHERS |

MODEL NAME : Di620
MODEL CODE : 1155
NO. : 001
DATE : 980508
SUBJECT : CORRECTION OF SERVICE MANUAL

Please amend your Service Manual according to the instructions given below.

<GENERAL, MECHANICAL/ELECTRICAL>

Page: M-4

CORRECT: Transports

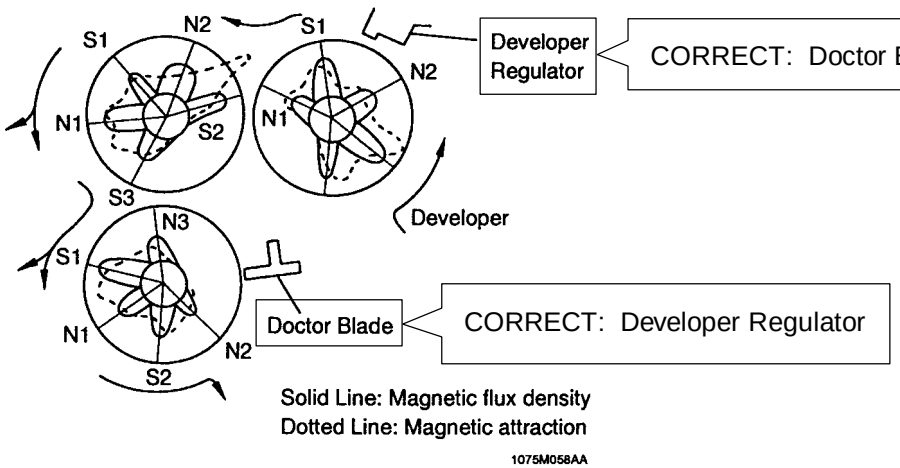
**19. Duplex Unit**
● Stores (following first-side copy) a fixed number of sheets that have been ejected. Then refeeds the sheets for copying onto the other side.

Page: M-16

CORRECT: -653V

| INITIAL VALUE -614V | CONTROL SIGNAL | WIRING DIAGRAM |
|---|---|---|
| Grid Voltage (VG) | PJ9A-12A | F-8 |
| NOTE Will vary in accordance with image stabilizing control. | | |

Page: M-55



Page: M-58

CORRECT: 4.5%

During operation, the ATDC sensor detects the T/C ratio (toner-to-carrier ratio) in the developer mixing chamber. If the detected ratio is below the target level of 4%, the copier will add toner. Note that the reference T/C ratio of 4% (at setup) produces an ATDC sensor output of 2.5V.

CORRECT: TARGET T/C LEVEL

| CONTROLLED PART | CONTROL SIGNAL | REFERENCE T/C RATIO | STANDARD OUTPUT VOLTAGE | WIRING DIAGRAM |
|---|---|---|---|---|
| UN4 | PJ8A-10B | 4.5 (%) | 2.32 (V) | D-4 |

Page: M-59

**<Toner Replenishing Control by ATDC Sensor>**

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In general, the ATDC sensor detects the T/C ratio once every copy. The detected value is compared against the target value (generally 4%, but may vary in accordance with image stabilizing control). If the result indicates that resupply is required, the Sub-hopper Toner Replenishing Motor is activated so as to supply the appropriate amount. The amount of resupply depends on the comparison result, as follows.

CORRECT: T/C drops below 3%

If the detected T/C is more than 3% below the target level, the copier will suspend copy operation and start replenishing of toner. Copying resumes when the T/C reading gains 1 percentage point. But note that this feature does not operate if a Toner Empty condition has been detected.

Page: G-7

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| | | |
|---|---|---|
| **TYPE** | : | Console (with Stationary Platen) |
| **PHOTOCONDUCTOR** | : | Organic Photoconductor |
| **ORIGINAL SCANNING** | : | Lens Reduction Type CCD Line Sensor |
| **RESOLUTION** | : | 400dpi, 600dpi |
| **SCANNING DENSITY** | : | 400dpi × 400dpi, 600dpi × 600dpi |
| **PRINT DENSITY** | : | 400dpi × 400dpi, 600dpi × 600dpi |
| **COPYING SYSTEM** | : | Electrostatic Dry Powdered Image Transfer to Plain Paper |

<TROUBLE SHOOTING>

Page: T-8

CORRECT: EDH take-up
EDH turnover/exit
EDH transport

| Lit/Blinking LED | Misfeed/Paper Location | Ref. Page | OP |
|---|---|---|---|
| ① | ADF take-up | See the relevant option service manual. | * |
| ② | ADF turnover/exit | | * |
| ③ | ADF transport | | * |
| ④ | Multi bypass take-up | 3) | |
| ⑤ | Copier transport/separator | 2) | |
| ⑥ | Copier fusing | 4) | |
| ⑦ | Duplex horizontal transport | 5) | |
| ⑧ | Duplex turnover | 5) | |
| ⑨ | 1st Drawer take-up | 1) | |
| ⑩ | 2nd Drawer take-up | 1) | |
| ⑪ | 3rd Drawer take-up | 1) | |
| ⑫ | Vertical transport (lower right of copier) | 1) | |
| ⑬ | LCC | See the relevant option service manual. | * |
| ⑭ | Entrance to Non-Sort/Finisher Tray | | * |
| ⑮ | Vertical transport through Finisher | | * |
| ⑯ | Entrance to Elevator Tray | | * |
| ⑰ | Paper Folding Unit | | * |
| ⑱ | Exit to Non-Sort Tray | | * |
| ⑲ | Copy stack transport | | * |
| ⑳ | Exit to Elevator Tray | | * |
| ㉑ | Exit to Finisher Tray | | * |

Page: T-87

CORRECT: 400K

| Section | Step | Check Item | Result | Action |
|---|---|---|---|---|
| Engine | 1 | Has the developer PM counter reached near 40K? | YES | Change the developer. |
| | 2 | Are the Developing Unit and Db plugged with foreign matter or caked toner? | YES | Remove foreign matter and caked toner. If the problem recurs, change the developer. |
| | 3 | Is the Db gap correct as adjusted? | NO | Readjust by referring to DIS/REASSEMBLY, ADJUSTMENT. |
| | 4 | Is the Image Transfer Corona wire dirty or deteriorated? | YES | Clean or change the wire. |
| | 5 | Is the wiring between Image Transfer/Paper Separator HV HV2 and the Image Transfer Corona normal? | YES | Change HV2. |
| | | | NO | Correct the wiring. |

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CORRECT: 3

CORRECT: 4

<SWITCHES ON PWBs, TECH. REP. SETTINGS>

Page: S-17

