

[9] TROUBLE CODE LIST

1. List

| Trouble code |                                   | Trouble contents   | Trouble detection |
|--------------|-----------------------------------|--|-------------------|
| Main code    | Sub code                          |  |                   |
| A0           | 01                                | Security incompatibility error   |                   |
| E1           | 00                                | IMC PWB communication trouble  | MCU               |
|              | 10                                | IMC PWB trouble  |                   |
|              | 11                                | IMC PWB ASIC error   |                   |
|              | 12                                | IMC PWB CODEC IC error   |                   |
|              | 13                                | IMC PWB flash ROM error  |                   |
|              | 14                                | IMC PWB expanded memory module (DIMM) error  |                   |
|              | 15                                | IMC PWB page memory error /SRAM error  |                   |
|              | 16                                | IMC PWB standard compression memory error  |                   |
|              | 17                                | IMC PWB smoothing IC error   |                   |
|              | 80                                | IMC PWB communication trouble (protocol)   |                   |
|              | 81                                | IMC PWB communication trouble (Parity)   |                   |
|              | 82                                | IMC PWB communication trouble (Overrun)  |                   |
|              | 84                                | IMC PWB communication trouble (Framing)  |                   |
|              | 88                                | IMC PWB communication trouble (Time-out)   |                   |
| E7           | 02                                | LSU trouble  |                   |
|              | 10                                | CCD black level error  |                   |
|              | 11                                | CCD white level error  |                   |
|              | 12                                | Shading trouble  |                   |
| F1           | 00                                | Finisher communication trouble (AR-FN5A)   | FIN               |
|              | 01                                | Side guide plated home position error (AR-FN5A)                                      |                   |
|              | 03                                | Paddle motor trouble (AR-F14N)   |                   |
|              | 06                                | Offset motor trouble (AR-FN5A)<br>Slide motor trouble (AR-F14N)                      |                   |
|              | 08                                | Staple motor error (AR-FN5A)   |                   |
|              | 10                                | Staple motor trouble (AR-F14N)   |                   |
|              | 11                                | Rear edge plate home position error (AR-FN5A)<br>Bundle exit motor trouble (AR-F14N) |                   |
|              | 15                                | Finisher lift-up motor trouble   |                   |
|              | 19                                | Alignment motor (F) trouble (AR-F14N)  |                   |
|              | 20                                | Alignment motor (R) trouble (AR-F14N)  |                   |
|              | 30                                | Finisher interface error (AR-F14N)   |                   |
|              | 31                                | Fold sensor trouble (AR-F14N)  |                   |
|              | 32                                | Punch unit communication trouble (AR-F14N)   |                   |
|              | 33                                | Punch side registration motor trouble (AR-F14N)                                      |                   |
|              | 34                                | Punch motor trouble (AR-F14N)  |                   |
|              | 35                                | Punch side registration sensor trouble (AR-F14N)                                     |                   |
|              | 36                                | Punch registration sensor trouble (AR-F14N)  |                   |
|              | 37                                | Backup RAM trouble (AR-F14N)   |                   |
|              | 38                                | Punch backup RAM trouble (AR-F14N)   |                   |
|              | 39                                | Punch dust sensor trouble (AR-F14N)  |                   |
|              | 40                                | Punch power trouble (AR-F14N)  |                   |
|              | 50                                | Finisher incompatibility error   |                   |
|              | 53                                | Interface transport unit connection trouble (AR-F14N)                                |                   |
| 81           | Transport motor trouble (AR-F14N) |  |                   |

| Trouble code |   | Trouble contents   | Trouble detection |
|--------------|---|--|-------------------|
| Main code    | Sub code                                |  |                   |
| F2           | 02                                      | Toner supply failure   |                   |
|              | 04                                      | Identification error   |                   |
|              |   | Model error  |                   |
|              |   | Type error   |                   |
|              |   | Destination error  |                   |
|              |   | Data abnormality   |                   |
|              |   | Misc error   |                   |
| 58           | Temperature humidity sensor abnormality |  |                   |
| F5           | 02                                      | Copy lamp (xenon lamp) error   |                   |
| F6           | 00                                      | FAX control PWB communication trouble  | MCU               |
|              | 10                                      | FAX control PWB trouble  |                   |
|              | 80                                      | FAX control PWB communication trouble (Protocol)   |                   |
|              | 81                                      | FAX control PWB communication trouble (Parity)   |                   |
|              | 82                                      | FAX control PWB communication trouble (Overrun)  |                   |
|              | 84                                      | FAX control PWB communication trouble (Framing)  |                   |
|              | 88                                      | FAX control PWB communication trouble (Time-out)   |                   |
|              | 95                                      | Incompatibility error of AR-F14N and FAX control PWB   |                   |
|              | 99                                      | FAX control PWB destination error  |                   |
| F9           | 00                                      | Printer PWB communication trouble  | MCU               |
|              | 10                                      | Printer PWB trouble  |                   |
|              | 80                                      | Printer PWB communication trouble (Protocol)   |                   |
|              | 81                                      | Printer PWB communication trouble (Parity)   |                   |
|              | 82                                      | Printer PWB communication trouble (Overrun)  |                   |
|              | 84                                      | Printer PWB communication trouble (Framing)  |                   |
|              | 88                                      | Printer PWB communication trouble (Time-out)   |                   |
|              | 95                                      | Incompatibility error of AR-F14N and PCL/GDI PWB   |                   |
|              | 96                                      | PCL PWB incompatibility error  |                   |
| 99           | Printer PWB language error              |  |                   |
| H2           | 00                                      | Main heater lamp thermistor open hard detection  |                   |
|              | 01                                      | Sub heater lamp thermistor open hard detection   |                   |
| H3           | 00                                      | Main heater lamp abnormally high temperature hard detection trouble  |                   |
|              | 01                                      | Sub heater lamp abnormally high temperature hard detection trouble   |                   |
|              | 10                                      | Main heater lamp abnormally high temperature soft detection trouble  |                   |
|              | 11                                      | Sub heater lamp abnormally high temperature soft detection trouble   |                   |
|              |   |  |                   |
| H4           | 00                                      | Main heater lamp abnormally low temperature detection  |                   |
|              | 01                                      | Sub heater lamp abnormally low temperature detection   |                   |
|              | 20                                      | Main heater lamp abnormally low temperature detection  |                   |
|              | 21                                      | Sub heater lamp abnormally low temperature detection   |                   |
| H5           | 01                                      | 10 times of continuous detection of the lower paper exit sensor (POD1) lead edge jam or the upper paper exit sensor (POD2) lead edge jam or the duplex sensor (PPD2) rear edge jam |                   |
| L1           | 00                                      | Scanner feed trouble   |                   |
| L3           | 00                                      | Scanner return trouble   |                   |

| Trouble code |          | Trouble contents                                       | Trouble detection |
|--------------|----------|--|-------------------|
| Main code    | Sub code |  |                   |
| L4           | 01       | Main motor trouble                                     |                   |
|              | 11       | Shifter motor trouble                                  |                   |
| L6           | 10       | Polygon motor trouble                                  |                   |
| L8           | 10       | Power abnormality detection trouble                    |                   |
| U1           | 01       | FAX battery error                                      |                   |
|              | 02       | PANEL LOW battery error                                |                   |
| U2           | 04       | EEPROM communication error                             |                   |
|              | 20       | Machine speed code data error                          |                   |
|              | 40       | CRUM chip communication error                          |                   |
| U7           | 00       | RIC communication trouble                              |                   |
| U9           | 00       | Operation control PWB communication trouble            | OPE               |
|              | 80       | Operation control PWB communication trouble (Protocol) |                   |
|              | 81       | Operation control PWB communication trouble (Parity)   |                   |
|              | 82       | Operation control PWB communication trouble (Overrun)  |                   |
|              | 84       | Operation control PWB communication trouble (Framing)  |                   |
|              | 88       | Operation control PWB communication trouble (Time-out) |                   |
| EE           | EL       | Developer adjustment trouble (Over-toned abnormality)  |                   |
|              | EU       | Developer adjustment trouble (Under-toned abnormality) |                   |
| PF           | 00       | PF trouble   |                   |

## 2. Self diagnostics

| Trouble code |          | Details of trouble |   |
|--------------|----------|--------------------|---|
| Main code    | Sub code | Content            | Details   |
| A0           | 01       | Content            | Security incompatibility error  |
|              |          | Details            | When the PCL or the FAX control PWB is installed, it does not match with compatible/incompatible setup of the MCU PWB security. |
|              |          | Cause              | The security compatibility/incompatibility of the installed PCL or FAX control PWB does not match with that of the MCU PWB.     |
|              |          | Check and remedy   | Check the security compatibility/incompatibility of each board. Match the security compatibility/incompatibility of the boards. |
| E1           | 00       | Content            | IMC PWB communication trouble   |
|              |          | Details            | Communication trouble between MCU and IMC PWB   |
|              |          | Cause              | IMC PWB connector disconnection. Motherboard connector pin breakage. IMC PWB ROM defect, data failure.                          |
|              |          | Check and remedy   | Check the connectors of the IMC PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check the ROM of the IMC PWB.         |
|              | 10       | Content            | IMC PWB trouble   |
|              |          | Details            | IMC PWB hardware abnormality  |
|              |          | Check and remedy   | Replace the IMC PWB   |

| Trouble code |                  | Details of trouble  |  |   |
|--------------|------------------|---|--|---|
| Main code    | Sub code         | Content   | Details  |   |
| E1           | 11               | Content   | IMC PWB ASIC error   |   |
|              |                  | Details   | ASIC abnormality on IMC PWB  |   |
|              |                  | Cause   | IMC PWB abnormality  |   |
|              |                  | Check and remedy  | Replace the IMC PWB  |   |
|              |                  | 12  | Content  | IMC PWB CODEC IC error                      |
|              |                  |   | Details  | CODEC IC (JBIG chip) abnormality on IMC PWB |
|              | 13               | Cause   | IMC PWB abnormality  |   |
|              |                  | Check and remedy  | Replace the IMC PWB.   |   |
|              |                  | Remarks   | When the program download is abnormally terminated, a error may occur. In this case, download the program again. |   |
|              |                  | Content   | IMC PWB flash ROM error  |   |
|              |                  | Details   | Flash ROM abnormality on IMC PWB   |   |
|              |                  | Cause   | IMC PWB abnormality  |   |
| 14           | Check and remedy | Replace the IMC PWB.  |  |   |
|              | Remarks          | Program ROM abnormality   |  |   |
|              | Content          | IMC PWB expanded memory module (DIMM) error   |  |   |
|              | Details          | IMC extended compression memory module (DIMM) installation error. IMC extended compression memory module (DIMM) access error.                           |  |   |
|              | Cause            | IMC expanded memory module installation trouble.<br>IMC expanded memory module trouble.<br>IMC expanded memory contact trouble.<br>IMC PWB abnormality. |  |   |
| 15           | Check and remedy | Check installation of the expanded memory module. (Spec: Added to Slot 1.)<br>Replace the expanded memory module.<br>Replace the IMC PWB.               |  |   |
|              | Remarks          | Extend memory abnormality for compressed image store (DIMM module)  |  |   |
|              | Content          | IMC PWB page memory error /SRAM error   |  |   |
|              | Details          | IMC PWB page memory or work SRAM access error   |  |   |
| 16           | Cause            | IMC PWB abnormality   |  |   |
|              | Check and remedy | Replace the IMC PWB   |  |   |
|              | Remarks          | Print buffer page memory or work SRAM abnormality   |  |   |
|              | Content          | IMC PWB standard compression memory error   |  |   |
|              | Details          | Access error of standard compression memory on IMC PWB  |  |   |
| 17           | Cause            | IMC PWB abnormality   |  |   |
|              | Check and remedy | Replace the IMC PWB   |  |   |
|              | Remarks          | Standard compression image store memory abnormality   |  |   |
|              | Content          | IMC PWB smoothing IC error  |  |   |
| 17           | Details          | IMC PWB smoothing IC abnormality  |  |   |
|              | Cause            | IMC PWB abnormality   |  |   |
|              | Check and remedy | Replace the IMC PWB   |  |   |

| Trouble code |                  | Details of trouble  |   |
|--------------|------------------|---|---|
| Main code    | Sub code         |   |   |
| E1           | 80               | Content   | IMC PWB communication trouble (protocol)  |
|              |                  | Details   | Communication trouble between MCU and IMC PWB (Protocol error)  |
|              |                  | Cause   | IMC PWB connector disconnection.<br>Motherboard connector pin breakage.<br>IMC PWB ROM defect, data failure.            |
|              |                  | Check and remedy  | Check the connectors of the IMC PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check the ROM of the IMC PWB. |
|              | 81               | Content   | IMC PWB communication trouble (Parity)  |
|              |                  | Details   | Communication trouble between MCU and printer IMC (Parity error)  |
|              |                  | Cause   | IMC PWB connector disconnection.<br>Motherboard connector pin breakage.<br>IMC PWB ROM defect, data failure.            |
|              |                  | Check and remedy  | Check the connectors of the IMC PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check the ROM of the IMC PWB. |
|              | 82               | Content   | IMC PWB communication trouble (Overrun)   |
|              |                  | Details   | Communication trouble between MCU and IMC PWB (Overrun error)   |
|              |                  | Cause   | IMC PWB connector disconnection.<br>Motherboard connector pin breakage.<br>IMC PWB ROM defect, data failure.            |
|              |                  | Check and remedy  | Check the connectors of the IMC PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check the ROM of the IMC PWB. |
|              | 84               | Content   | IMC PWB communication trouble (Framing)   |
|              |                  | Details   | Communication trouble between MCU and IMC PWB (Framing error)   |
|              |                  | Cause   | IMC PWB connector disconnection.<br>Motherboard connector pin breakage.<br>IMC PWB ROM defect, data failure.            |
|              |                  | Check and remedy  | Check the connectors of the IMC PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check the ROM of the IMC PWB. |
| 88           | Content          | IMC PWB communication trouble (Time-out)  |   |
|              | Details          | Communication trouble between MCU and IMC PWB (Time-out error)  |   |
|              | Cause            | IMC PWB connector disconnection.<br>Motherboard connector pin breakage.<br>IMC PWB ROM defect, data failure.            |   |
|              | Check and remedy | Check the connectors of the IMC PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check the ROM of the IMC PWB. |   |

| Trouble code |          | Details of trouble   |   |
|--------------|----------|--|---|
| Main code    | Sub code |  |   |
| E7           | 02       | Content  | LSU trouble   |
|              |          | Details  | BD signal from LSU is not detected in a constant cycle (Kept OFF or ON)   |
|              |          | Cause  | LSU connector or LSU inside harness trouble or disconnection.<br>Polygon motor rotation abnormality.<br>Laser does not illuminate.<br>MCU PWB failure.  |
|              |          | Check and remedy   | Check for disconnection of the LSU connector.<br>Check the LSU operation with SIM 61-1.<br>Check that the polygon motor rotates normally.<br>Check laser LED lighting.<br>Replace the LSU unit.<br>Replace the MCU PWB.   |
|              | 10       | Content  | CCD black level error   |
|              |          | Details  | CCD black reference plate scan level abnormality when the copy lamp turns off.  |
|              |          | Cause  | Flat cable installation failure to CCD unit.<br>CCD unit error.   |
|              |          | Check and remedy   | Check flat cable installation to the CCD unit.<br>Check CCD unit.   |
|              | 11       | Content  | CCD white level error   |
|              |          | Details  | Improper CCD white reference plate reading level for copy lamp lighting   |
|              |          | Cause  | Flat cable installation failure to CCD unit.<br>Dirt on the mirror, lens, and reference white plate.<br>Copy lamp lighting trouble.<br>CCD unit abnormality.<br>MCU PWB abnormality. (Occurred in the RSPF scan position) |
|              | 12       | Content  | Shading trouble   |
| Details      |          | White correction is not completed in the specified number of times.  |   |
|              | Cause    | Flat cable installation failure to CCD unit.<br>Dirt on the mirror, lens, and reference white plate.<br>Copy lamp lighting trouble.<br>CCD unit abnormality.<br>MCU PWB abnormality. |   |
|              |          | Check and remedy   | Clean the mirror, the lens, and the reference white plate.<br>Check the copy lamp light quantity and its operation. (SIM 5-3)<br>Check CCD unit.<br>Check MCU PWB.  |

| Trouble code |          | Details of trouble |   |
|--------------|----------|--------------------|---|
| Main code    | Sub code |                    |   |
| F1           | 00       | Content            | Finisher communication trouble  |
|              |          | Details            | Communication line test error occurs when power is turned on or after the exit of a simulation mode.<br>Error in finisher communication   |
|              |          | Cause              | Connection trouble or disconnection of the connector and harness between the body and the finisher.<br>Finisher control PWB trouble.<br>Control PWB failure.<br>Malfunction by noises.  |
|              |          | Check and remedy   | Canceled by turning OFF/ON the power.<br>Check the connectors and the harness of communication line.<br>Replace the finisher control PWB.   |
|              | 01       | Content            | Side guide plated home position error (AR-FN5A)   |
|              |          | Details            | The side guide plate cannot return to the position of home position error.  |
|              |          | Cause              | Side guide plate drive motor abnormality.<br>Side guide plate home position sensor abnormality.<br>Finisher PWB abnormality.  |
|              |          | Check and remedy   | Use SIM3-3-1 to check the side guide plate motor operation.   |
|              | 03       | Content            | Paddle motor trouble (AR-F14N)  |
|              |          | Details            | Paddle motor operation abnormality  |
|              |          | Cause              | Motor lock.<br>Motor rpm abnormality.<br>Overcurrent to the motor.<br>Finisher control PWB trouble.   |
|              |          | Check and remedy   | Use SIM3-3-10 to check the paddle motor operation   |
|              | 06       | Content            | Offset motor trouble (AR-FN5A)<br>Slide motor trouble (AR-F14N)   |
|              |          | Details            | (AR-FN5A) When the offset motor of the finisher is driven it does not reach the specified position.<br>(AR-F14N) Slide motor operation abnormality  |
|              |          | Cause              | (AR-FN5A)<br>Offset motor abnormality.<br>Offset motor origin sensor abnormality.<br>Finisher PWB abnormality.<br>(AR-FN14N)<br>Motor lock.<br>Motor rpm abnormality.<br>Overcurrent to the motor.<br>Finisher control PWB trouble. |
|              |          | Check and remedy   | (AR-FN5A)<br>Use SIM 3-3-6 to check the offset motor operation<br>(AR-F14N)<br>Use SIM 3-3-6 to check the slide motor operation   |

| Trouble code |                  | Details of trouble   |  |
|--------------|------------------|--|--|
| Main code    | Sub code         |  |  |
| F1           | 08               | Content  | Staple motor error (AR-FN5A)   |
|              |                  | Details  | The staple motor cannot return to the home position  |
|              |                  | Cause  | Staple motor abnormality.<br>Staple motor home position sensor abnormality.<br>Staple unit abnormality.<br>Finisher PWB abnormality. |
|              |                  | Check and remedy   | Use SIM 3-3-7 to check the staple motor operation  |
|              | 10               | Content  | Staple motor trouble (AR-F14N)   |
|              |                  | Details  | Staple motor operation abnormality   |
|              |                  | Cause  | Motor lock.<br>Motor rpm abnormality.<br>Overcurrent to the motor.<br>Finisher control PWB trouble.                                  |
|              | Check and remedy | Use SIM 3-3-5 to check the staple motor operation.   |  |
|              |                  | 11   | Content  |
|              | Details          | (AR-FN5A) The rear edge plate cannot return to the home position<br>(AR-F14N) Bundle exit motor operation abnormality  |  |
|              | Cause            | (AR-FN5A)<br>Rear edge plate drive motor abnormality.<br>Side guide plate home position sensor abnormality.<br>Finisher PWB abnormality.<br>(AR-F14N)<br>Motor lock.<br>Motor rpm abnormality.<br>Overcurrent to the motor.<br>Finisher control PWB trouble. |  |
|              | Check and remedy | (AR-FN5A) Use SIM 3-3-2 to check the rear edge plate motor operation<br>(AR-F14N) Use SIM 3-3-9 to check the bundle exit motor operation   |  |
|              | 15               | Content  | Finisher lift-up motor trouble   |
|              |                  | Details  | The finisher lift-up motor does not reach the specified position   |
|              |                  | Cause  | Lift-up motor abnormality.<br>Lift-up motor upper limit sensor abnormality.<br>Finisher PWB abnormality.                             |
|              |                  | Check and remedy   | Use SIM 3-3-5 to check the lift-up motor operation   |
| 19           | Content          | Alignment motor (F) trouble (AR-F14N)  |  |
|              | Details          | Alignment motor operation abnormality  |  |
|              | Cause            | Motor lock.<br>Motor rpm abnormality.<br>Overcurrent to the motor.<br>Finisher control PWB trouble.  |  |
|              | Check and remedy | Use SIM3-3-8 to check the alignment (F) motor operation.   |  |

| Trouble code |                  | Details of trouble  |   |
|--------------|------------------|---|---|
| Main code    | Sub code         |   |   |
| F1           | 20               | Content   | Alignment motor (R) trouble (AR-F14N)   |
|              |                  | Details   | Alignment motor operation abnormality   |
|              |                  | Cause   | Motor lock.<br>Motor rpm abnormality.<br>Overcurrent to the motor.<br>Finisher control PWB trouble.   |
|              |                  | Check and remedy  | Use SIM3-3-7 to check the alignment (R) motor operation   |
|              | 30               | Content   | Finisher interface error (AR-F14N)  |
|              |                  | Details   | Communication line test error occurs when power is turned on or after the exit of a simulation mode.<br>Error in console finisher communication   |
|              |                  | Cause   | Connection trouble or disconnection of the connector and harness between the body and the finisher.<br>Finisher control PWB trouble.<br>Control PWB (PCU) failure.<br>Malfunction by noises.    |
|              |                  | Check and remedy  | Canceled by turning OFF/ON the power.<br>Check the connectors and the harness of communication line<br>Replace the finisher control PWB.  |
|              | 31               | Content   | Fold sensor trouble (AR-F14N)   |
|              |                  | Details   | Sensor input value abnormality  |
|              |                  | Cause   | Sensor breakage.<br>harness breakage.<br>Finisher control PWB trouble.  |
|              |                  | Check and remedy  | Use SIM3-2 to check the sensor operation.   |
|              | 32               | Content   | Punch unit communication trouble (AR-F14N)  |
|              |                  | Details   | Communication error between the console finisher and the punch unit   |
|              |                  | Cause   | Improper connection or disconnection of connector and harness between the finisher and the punch unit.<br>Finisher control PWB trouble.<br>Control PWB (PCU) failure.<br>Malfunction by noises. |
|              |                  | Check and remedy  | Canceled by turning OFF/ON the power.<br>Check the connectors and the harness of communication line.<br>Replace the finisher control PWB.   |
|              | 33               | Content   | Punch side registration motor trouble (AR-F14N)   |
|              |                  | Details   | Punch side registration motor operation abnormality   |
|              |                  | Cause   | Motor lock.<br>Motor rpm abnormality.<br>Overcurrent to the motor.<br>Finisher control PWB trouble.   |
|              |                  | Check and remedy  | Use SIM3-3-2 to check the punch side registration motor operation   |
| 34           | Content          | Punch motor trouble (AR-F14N)   |   |
|              | Details          | Punch motor operation abnormality   |   |
|              | Cause            | Motor lock.<br>Motor rpm abnormality.<br>Overcurrent to the motor.<br>Finisher control PWB trouble. |   |
|              | Check and remedy | Use SIM3-3-3 to check the punch motor operation   |   |

| Trouble code |                  | Details of trouble   |  |
|--------------|------------------|--|--|
| Main code    | Sub code         |  |  |
| F1           | 35               | Content  | Punch side registration sensor trouble (AR-F14N)                       |
|              |                  | Details  | Sensor input value abnormality   |
|              |                  | Cause  | Sensor breakage.<br>harness breakage.<br>Finisher control PWB trouble. |
|              |                  | Check and remedy   | Use SIM3-2 to check the punch side registration sensor operation       |
|              | 36               | Content  | Punch registration sensor trouble (AR-F14N)                            |
|              |                  | Details  | Sensor input value abnormality   |
|              |                  | Cause  | Sensor breakage.<br>harness breakage.<br>Finisher control PWB trouble. |
|              |                  | Check and remedy   | Use SIM3-2 to check the punch registration sensor operation            |
|              | 37               | Content  | Backup RAM trouble (AR-F14N)   |
|              |                  | Details  | Backup RAM contents are disturbed                                      |
|              |                  | Cause  | Finisher control PWB trouble.<br>Malfunction by noise.                 |
|              |                  | Check and remedy   | Replace the finisher control PWB.                                      |
|              | 38               | Content  | Punch backup RAM trouble (AR-F14N)                                     |
|              |                  | Details  | Punch unit backup RAM contents are disturbed.                          |
|              |                  | Cause  | Punch control PWB trouble.<br>Malfunction by noise.                    |
|              |                  | Check and remedy   | Replace the punch control PWB  |
|              | 39               | Content  | Punch dust sensor trouble (AR-F14N)                                    |
|              |                  | Details  | Punch dust sensor detection trouble                                    |
|              |                  | Cause  | Sensor breakage.<br>harness breakage.<br>Finisher control PWB trouble. |
|              |                  | Check and remedy   | Use SIM3-2 to check the punch dust sensor operation                    |
| 40           | Content          | Punch power trouble (AR-F14N)  |  |
|              | Details          | Punch unit power discontinuity detection   |  |
|              | Cause            | Punch control PWB defect   |  |
|              | Check and remedy | Replace the punch control PWB  |  |
| 50           | Content          | Finisher incompatibility error   |  |
|              | Details          | Speed does not coincide between finisher and main unit                                 |  |
|              | Cause            | AR-FN5N/F14 is connected to 31 sheet model   |  |
|              | Check and remedy | Connect AR-FN5A.<br>Connect AR-F14N.   |  |
| 53           | Content          | Interface transport unit connection trouble (AR-F14N)                                  |  |
|              | Details          | Interface transport unit connector disconnection                                       |  |
|              | Cause            | Improper connection of connector between the finisher and the interface transport unit |  |
|              | Check and remedy | Check the interface transport unit connector.  |  |

| Trouble code |                  | Details of trouble  |  |
|--------------|------------------|---|--|
| Main code    | Sub code         |   |  |
| F1           | 81               | Content   | Transport motor trouble (AR-F14N)  |
|              |                  | Details   | Transport motor trouble  |
|              |                  | Cause   | Motor lock.<br>Motor rpm abnormality.<br>Overcurrent to the motor.<br>Finisher control PWB trouble.      |
|              |                  | Check and remedy  | Use SIM3-3-11 to check the front transport motor operation   |
| F2           | 02               | Content   | Toner supply failure   |
|              |                  | Details   | The value judged from the actual toner supply hysteresis differs greatly from the toner sensor value     |
|              |                  | Cause   | Developing unit trouble.<br>Toner supply abnormality caused by installation of unpacked toner cartridge. |
|              |                  | Check and remedy  | Replace the developing unit.<br>Use SIM 25-1 to perform DV stirring.                                     |
|              | 04               | Content   | Identification error   |
|              |                  | Model error   |  |
|              |                  | Type error  |  |
|              |                  | Destination error   |  |
|              |                  | Data abnormality  |  |
|              |                  | Misc error  |  |
|              |                  | Details   | (Identification error)<br>When the CRUM trademark differs.<br>When the CRUM company code differs.        |
|              |                  | (Model error)<br>When the boot program model code does not match with the CRUM model information  |  |
|              |                  | (Type error)<br>When the CRUM type is other than [Genuine/Conversion/Production rotation]   |  |
|              |                  | (Destination error)<br>The destination of the body differs from that of the CRUM  |  |
|              |                  | (Data abnormality)<br>The initial check information includes an erroneous value.<br>When the max. toner supply time is 00.<br>When the print hard stop is 00. |  |
|              |                  | Cause   | CRUM chip failure.<br>Erroneous developing unit.   |
|              |                  | Check and remedy  | Replace the CRUM chip.<br>Replace the developing unit.   |
| 58           | Content          | Temperature humidity sensor abnormality   |  |
|              | Details          | Temperature humidity sensor abnormality   |  |
|              | Cause            | Temperature humidity sensor connector disconnection.<br>Short-circuit of the temperature humidity sensor was detected.  |  |
|              | Check and remedy | Check the connection of temperature humidity sensor.<br>Replace the temperature humidity sensor.  |  |

| Trouble code     |                  | Details of trouble   |   |
|------------------|------------------|--|---|
| Main code        | Sub code         |  |   |
| F5               | 02               | Content  | Copy lamp (xenon lamp) error  |
|                  |                  | Details  | The copy lamp does not light up   |
|                  |                  | Cause  | Copy lamp abnormality.<br>Copy lamp harness abnormality.<br>CCD PWB harness abnormality.  |
|                  |                  | Check and remedy   | Check the copy lamp. (SIM 5-3)<br>When the lamp lights:<br>Check the harnesses and connectors between the CCD unit and the MCU PWB.<br>When the lamp does not light:<br>Check the harness and connector between the copy lamp and the MCU PWB.<br>Replace the copy lamp unit.<br>Replace the MCU PWB. |
| F6               | 00               | Content  | FAX control PWB communication trouble   |
|                  |                  | Details  | Communication trouble between MCU and FAX control PWB   |
|                  |                  | Cause  | FAX control PWB connector disconnection.<br>Harness trouble between FAX control PWB and MCU PWB.<br>Motherboard connector pin breakage.<br>FAX control PWB ROM defect/Data failure.   |
|                  |                  | Check and remedy   | Check the connectors and the harness of FAX control PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check FAX control PWB ROM.  |
|                  | 10               | Content  | FAX control PWB trouble   |
|                  |                  | Details  | FAX control PWB abnormality   |
|                  |                  | Cause  | FAX control PWB defect  |
|                  |                  | Check and remedy   | Replate the FAX control PWB   |
|                  | 80               | Content  | FAX control PWB communication trouble (Protocol)  |
|                  |                  | Details  | Communication trouble between MCU and FAX control PWB (Protocol error)  |
| Cause            |                  | FAX control PWB connector disconnection<br>Harness trouble between FAX control PWB and MCU PWB.<br>Motherboard connector pin breakage.<br>FAX control PWB ROM defect/Data failure. |   |
| Check and remedy |                  | Check the connectors and the harness of FAX control PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check FAX control PWB ROM.   |   |
| 81               | Content          | FAX control PWB communication trouble (Parity)   |   |
|                  | Details          | Communication trouble between MCU and FAX control PWB (Parity error)   |   |
|                  | Cause            | FAX control PWB connector disconnection<br>Harness trouble between FAX control PWB and MCU PWB.<br>Motherboard connector pin breakage.<br>FAX control PWB ROM defect/Data failure. |   |
|                  | Check and remedy | Check the connectors and the harness of FAX control PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check FAX control PWB ROM.   |   |

| Trouble code |                  | Details of trouble  |   |
|--------------|------------------|---|---|
| Main code    | Sub code         |   |   |
| F6           | 82               | Content   | FAX control PWB communication trouble (Overrun)   |
|              |                  | Details   | Communication trouble between MCU and FAX control PWB (Overrun error)   |
|              |                  | Cause   | FAX control PWB connector disconnection.<br>Harness trouble between FAX control PWB and MCU PWB.<br>Motherboard connector pin breakage.<br>FAX control PWB ROM defect/Data failure. |
|              |                  | Check and remedy  | Check the connectors and the harness of FAX control PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check FAX control PWB ROM.  |
|              | 84               | Content   | FAX control PWB communication trouble (Framing)   |
|              |                  | Details   | Communication trouble between MCU and FAX control PWB (Framing error)   |
|              |                  | Cause   | FAX control PWB connector disconnection.<br>Harness trouble between FAX control PWB and MCU PWB.<br>Motherboard connector pin breakage.<br>FAX control PWB ROM defect/Data failure. |
|              |                  | Check and remedy  | Check the connectors and the harness of FAX control PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check FAX control PWB ROM.  |
|              | 88               | Content   | FAX control PWB communication trouble (Time-out)  |
|              |                  | Details   | Communication trouble between MCU and FAX control PWB (Time-out error)  |
|              |                  | Cause   | FAX control PWB connector disconnection.<br>Harness trouble between FAX control PWB and MCU PWB.<br>Motherboard connector pin breakage.<br>FAX control PWB ROM defect/Data failure. |
|              |                  | Check and remedy  | Check the connectors and the harness of FAX control PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check FAX control PWB ROM.  |
|              | 95               | Content   | Incompatibility error of AR-F14N and FAX control PWB  |
|              |                  | Details   | FAX control PWB incompatible with AR-F14N and AR-F14N was installed to the copier   |
|              |                  | Cause   | FAX control PWB is incompatible   |
|              |                  | Check and remedy  | Install the FAX control PWB compatible with AR-F14N   |
| 99           | Content          | FAX control PWB destination error   |   |
|              | Details          | The machine destination setup does not coincide with the FAX control PWB destination setup.                               |   |
|              | Cause            | The machine destination setup (Sim 26-6) does not coincide with the FAX control PWB setup                                 |   |
|              | Check and remedy | Check the variety of FAX LIU PWB.<br>Check the machine destination setup (Sim 22-6) and FAX country code (Soft SW table). |   |

| Trouble code |                  | Details of trouble  |   |
|--------------|------------------|---|---|
| Main code    | Sub code         |   |   |
| F9           | 00               | Content   | Printer PWB communication trouble   |
|              |                  | Details   | Communication trouble between MCU and printer PWB   |
|              |                  | Cause   | Printer PWB connector disconnection.<br>Harness trouble between the printer PWB and the MCU PWB.<br>Motherboard connector pin breakage.<br>Printer PWB ROM defect/Data failure. |
|              |                  | Check and remedy  | Check the connectors and the harness of the printer PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check ROM on printer PWB.   |
|              | 10               | Content   | Printer PWB trouble   |
|              |                  | Details   | Printer PWB abnormality   |
|              |                  | Cause   | Printer PWB defect  |
|              |                  | Check and remedy  | Replace the printer PWB   |
|              | 80               | Content   | Printer PWB communication trouble (Protocol)  |
|              |                  | Details   | Communication trouble between MCU and printer PWB (Protocol error)  |
|              |                  | Cause   | Printer PWB connector disconnection.<br>Harness trouble between the printer PWB and the MCU PWB.<br>Motherboard connector pin breakage.<br>Printer PWB ROM defect/Data failure. |
|              |                  | Check and remedy  | Check the connectors and the harness of the printer PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check ROM on printer PWB.   |
|              | 81               | Content   | Printer PWB communication trouble (Parity)  |
|              |                  | Details   | Communication trouble between MCU and printer PWB (Parity error)  |
|              |                  | Cause   | Printer PWB connector disconnection.<br>Harness trouble between the printer PWB and the MCU PWB.<br>Motherboard connector pin breakage.<br>Printer PWB ROM defect/Data failure. |
|              |                  | Check and remedy  | Check the connectors and the harness of the printer PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check ROM on printer PWB.   |
| 82           | Content          | Printer PWB communication trouble (Overrun)   |   |
|              | Details          | Communication trouble between MCU and printer PWB (Overrun error)   |   |
|              | Cause            | Printer PWB connector disconnection.<br>Harness trouble between the printer PWB and the MCU PWB.<br>Motherboard connector pin breakage.<br>Printer PWB ROM defect/Data failure. |   |
|              | Check and remedy | Check the connectors and the harness of the printer PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check ROM on printer PWB.   |   |

| Trouble code |          | Details of trouble |   |
|--------------|----------|--------------------|---|
| Main code    | Sub code |                    |   |
| F9           | 84       | Content            | Printer PWB communication trouble (Framing)   |
|              |          | Details            | Communication trouble between MCU and printer PWB (Framing error)   |
|              |          | Cause              | Printer PWB connector disconnection.<br>Harness trouble between the printer PWB and the MCU PWB.<br>Motherboard connector pin breakage.<br>Printer PWB ROM defect/Data failure.                               |
|              |          | Check and remedy   | Check the connectors and the harness of the printer PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check ROM on printer PWB.   |
|              | 88       | Content            | Printer PWB communication trouble (Time-out)  |
|              |          | Details            | Communication trouble between MCU and printer PWB (Time-out error)  |
|              |          | Cause              | Printer PWB connector disconnection.<br>Harness trouble between the printer PWB and the MCU PWB.<br>Motherboard connector pin breakage.<br>Printer PWB ROM defect/Data failure.                               |
|              |          | Check and remedy   | Check the connectors and the harness of the printer PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check ROM on printer PWB.   |
|              | 95       | Content            | Incompatibility error of AR-F14N and PCL/GDI PWB  |
|              |          | Details            | PCL/GDI PWB incompatible with AR-F14N and AR-F14N was installed to the copier   |
|              |          | Cause              | PCL/GDI PWB is incompatible   |
|              |          | Check and remedy   | Install the PCL/GDI PWB compatible with AR-F14N   |
|              | 96       | Content            | PCL PWB incompatibility error   |
|              |          | Details            | Incompatible PCL PWB was installed to the copier  |
|              |          | Cause              | AR-P17 was installed.   |
|              |          | Check and remedy   | Install the AR-P27 to the copier  |
|              | 99       | Content            | Printer PWB language error  |
|              |          | Details            | The machine language setup does not coincide with the PCL board language setup.   |
|              |          | Cause              | PCL board connection error.<br>SIM setup error.   |
|              |          | Check and remedy   | Check combination between the firmware on PCL board and the panel screen data, and download the correct version, if necessary.<br>Check the machine language information. (Machine language setup: SIM 26-22) |
| H2           | 00       | Content            | Main heater lamp thermistor open hard detection   |
|              |          | Details            | Main heater lamp thermistor open detection.<br>Fusing unit not installed.   |
|              |          | Cause              | Main thermistor defect.<br>Control PWB failure.<br>Fusing section connector contact failure.<br>Fusing unit not installed.  |
|              |          | Check and remedy   | Check the harness and the connector of the thermistor and the MCU.  |

| Trouble code |          | Details of trouble   |   |  |
|--------------|----------|--|---|--|
| Main code    | Sub code |  |   |  |
| H2           | 01       | Content  | Sub heater lamp thermistor open hard detection  |  |
|              |          | Details  | Fusing sub thermistor open detection.<br>Fusing unit not installed.   |  |
|              |          | Cause  | Sub thermistor defect.<br>Control PWB failure.<br>Fusing section connector contact failure.<br>Fusing unit not installed. |  |
|              |          | Check and remedy   | Check the harness and the connector of the thermistor and the MCU.  |  |
|              | H3       | 00   | Content   | Main heater lamp abnormally high temperature hard detection trouble  |
|              |          |  | Details   | The fusing main heater thermistor causes abnormally high temperature   |
|              |          |  | Cause   | Main thermistor defect.<br>Control PWB failure.<br>Fusing section connector contact failure.   |
|              |          |  | Check and remedy  | Check the main heater lamp blinking with SIM 5-2-1.<br>When the lamp blinks normally:<br>Check the thermistor and the harness.<br>Check the MCU PWB thermistor input circuit.<br>If lamp lights and stays lit:<br>Check the power circuit and the lamp control circuit on MCU PWB.<br>Clear the display of self-diagnostics with SIM 14. |
|              |          | 01   | Content   | Sub heater lamp abnormally high temperature hard detection trouble   |
|              |          |  | Details   | The fusing sub thermistor causes abnormally high temperature   |
|              |          |  | Cause   | Sub thermistor defect.<br>Control PWB failure.<br>Fusing section connector contact failure.  |
|              |          |  | Check and remedy  | Check the sub heater lamp blinking with SIM 5-2-2.<br>When the lamp blinks normally:<br>Check the thermistor and the harness.<br>Check the MCU PWB thermistor input circuit.<br>If lamp lights and stays lit:<br>Check the power circuit and the lamp control circuit on MCU PWB.<br>Clear the display of self-diagnostics with SIM 14.  |
| 10           | Content  | Main heater lamp abnormally high temperature soft detection trouble  |   |  |
|              |          | A/D value the fusing main thermistor causes abnormally high temperature (over 230°C).  |   |  |
|              | Cause    | Main heater lamp thermistor defect.<br>Control PWB failure.<br>Fusing section connector contact failure.   |   |  |
|              |          | Check the main heater lamp blinking with SIM 5-2-1.<br>When the lamp blinks normally:<br>Check the thermistor and the harness.<br>Check the MCU PWB thermistor input circuit.<br>If lamp lights and stays lit:<br>Check the power circuit and the lamp control circuit on MCU PWB.<br>Clear the display of self-diagnostics with SIM 14. |   |  |



| Trouble code |          | Details of trouble |  |
|--------------|----------|--------------------|--|
| Main code    | Sub code |                    |  |
| H3           | 11       | Content            | Sub heater lamp abnormally high temperature soft detection trouble   |
|              |          | Details            | A/D value the fusing sub heater lamp thermistor causes abnormally high temperature (over 230°C).   |
|              |          | Cause              | Sub heater lamp thermistor defect.<br>Control PWB failure.<br>Fusing section connector contact failure.  |
|              |          | Check and remedy   | Check the sub heater lamp blinking with SIM 5-2-2.<br>When the lamp blinks normally:<br>Check the thermistor and the harness.<br>Check the MCU PWB thermistor input circuit.<br>If lamp lights and stays lit:<br>Check the power circuit and the lamp control circuit on MCU PWB.<br>Clear the display of self-diagnostics with SIM 14.  |
| H4           | 00       | Content            | Main heater lamp abnormally low temperature detection  |
|              |          | Details            | The setup temperature (about 90°C) is not reached within the specified time (about 17sec) from turning on the power.<br>When the temperature of main heater lamp thermistor falls below 140°C in the standby mode or printing.<br>When the temperature of main heater lamp thermistor falls below 50°C in the pre-heat mode.   |
|              |          | Cause              | Main heater lamp thermistor defect<br>Main heater lamp failure<br>Main thermostat failure<br>Control PWB failure   |
|              |          | Check and remedy   | Check the heater lamp blinking with SIM 5-2.<br>When the lamp blinks normally:<br>Check the thermistor and the harness.<br>Check the MCU PWB thermistor input circuit.<br>If lamp lights and stays lit:<br>Check for disconnection of the heater lamp and thermostat.<br>Check the interlock switch.<br>Check the power circuit and the lamp control circuit on MCU PWB.<br>Clear the display of self-diagnostics with SIM 14. |

| Trouble code |          | Details of trouble |  |
|--------------|----------|--------------------|--|
| Main code    | Sub code |                    |  |
| H4           | 01       | Content            | Sub heater lamp abnormally low temperature detection   |
|              |          | Details            | The setup temperature (about 90°C) is not reached within the specified time (about 17sec) from turning on the power.<br>When the temperature of sub heater thermistor falls below 140°C in the standby mode or printing.<br>When the temperature of sub heater lamp thermistor falls below 50°C in the pre-heat mode.  |
|              |          | Cause              | Sub heater lamp thermistor defect.<br>Sub heater lamp failure.<br>Sub thermostat failure.<br>Control PWB failure.  |
|              |          | Check and remedy   | Check the sub heater lamp blinking with SIM 5-2-2.<br>When the lamp blinks normally:<br>Check the thermistor and the harness.<br>Check the MCU PWB thermistor input circuit.<br>If lamp lights and stays lit:<br>Check the power circuit and the lamp control circuit on MCU PWB.<br>Clear the display of self-diagnostics with SIM 14.  |
|              | 20       | Content            | Main heater lamp abnormally low temperature detection  |
|              |          | Details            | The setup temperature (about -25°C: Sim 43-1-1) is not reached within the specified time (about 32sec) from turning on the power.<br>A/D value of fusing main thermistor is not reached within the specified temperature. (specified temperature : SIM43-1 (600dpi) -25°C )  |
|              |          | Cause              | Main thermistor defect.<br>Main heater lamp failure.<br>Main thermostat failure.<br>Control PWB failure.   |
|              |          | Check and remedy   | Check the main heater lamp blinking with SIM 5-1.<br>When the lamp blinks normally:<br>Check the thermistor and the harness.<br>Check the MCU PWB thermistor input circuit.<br>If lamp lights and stays lit:<br>Check the power circuit and the lamp control circuit on MCU PWB.<br>Clear the display of self-diagnostics with SIM 14.<br>Check that there is no foreign material in the contact section between the thermistor and the heat roller. |

| Trouble code |          | Details of trouble |   |
|--------------|----------|--------------------|---|
| Main code    | Sub code |                    |   |
| H4           | 21       | Content            | Sub heater lamp abnormally low temperature detection  |
|              |          | Details            | The setup temperature (about -25°C: Sim 43-1-1) is not reached within the specified time (about 32sec) from turning on the power.<br>A/D value of fusing sub thermistor is not reached within the specified temperature (specified temperature : SIM43-1 (600dpi) -25°C )   |
|              |          | Cause              | Sub thermistor defect.<br>Sub heater lamp failure.<br>Sub thermostat failure.<br>Control PWB failure.   |
|              |          | Check and remedy   | Check the sub heater lamp blinking with SIM 5-2-2.<br>When the lamp blinks normally:<br>Check the thermistor and the harness.<br>Check the MCU PWB thermistor input circuit.<br>If lamp lights and stays lit:<br>Check the power circuit and the lamp control circuit on MCU PWB.<br>Clear the display of self-diagnostics with SIM 14.<br>Check that there is no foreign material in the contact section between the thermistor and the heat roller. |
| H5           | 01       | Content            | 10 times of continuous detection of the lower paper exit sensor (POD1) lead edge jam or the upper paper exit sensor (POD2) lead edge jam or the duplex sensor (PPD2) rear edge jam  |
|              |          | Details            | After supplying the power, one of the above jams occurs 10 times continuously in printing<br>Counting is started on supplying the power. When any one of the above jams occurs, one count is made. When paper entry to the POD1 or POD2 is detected, the counter is cleared.  |
|              |          | Cause              | A paper jam (paper rounding, etc.) near the duplex sensor (PPD2) on the fusing unit is not canceled completely.<br>POD1, POD2, PPD2 sensor breakdown or harness connection trouble<br>Fusing unit installation failure  |
|              |          | Check and remedy   | Check for jam paper in the fusing section. (paper winding, etc.)<br>Check fusing unit installation.<br>Check the POD1, POD2 or PPD2 sensor.<br>Clear the trouble with SIM 14.   |

| Trouble code |          | Details of trouble |  |
|--------------|----------|--------------------|--|
| Main code    | Sub code |                    |  |
| L1           | 00       | Content            | Scanner feed trouble   |
|              |          | Details            | Scanner feed is not completed within the specified time.   |
|              |          | Cause              | Mirror unit defect.<br>Scanner wire disconnection.<br>Origin detection sensor error.<br>Mirror motor harness abnormality.  |
|              |          | Check and remedy   | Check the scanning operation with SIM 1-1.<br>When the mirror not feeds:<br>Check for disconnection of the scanner wire.<br>Check the harness and connector between the mirror motor and the MCU PWB.<br>Replace the mirror unit.<br>Replace the MCU PWB.<br>When the mirror feeds:<br>Check the mirror home position sensor with SIM 1-2.       |
| L3           | 00       | Content            | Scanner return trouble   |
|              |          | Details            | Scanner return is not completed within the specified time.<br>When OC copying with the mirror at the home position, the mirror is not in the home position.  |
|              |          | Cause              | Mirror unit defect.<br>The scanner wire is disconnected.<br>Origin detection sensor error.<br>Mirror motor harness abnormality.  |
|              |          | Check and remedy   | Check the scanning operation with SIM 1-1.<br>When the mirror fails to return:<br>Check for disconnection of the scanner wire.<br>Check the harness and connector between the mirror motor and the MCU PWB.<br>Replace the mirror unit.<br>Replace the MCU PWB.<br>When the mirror feeds:<br>Check the mirror home position sensor with SIM 1-2. |
| L4           | 01       | Content            | Main motor trouble   |
|              |          | Details            | The main motor does not rotate.<br>The motor lock signal is detected for 1sec or more after the main motor rotates.<br>The motor lock signal is detected for 1sec during rotation of the main motor.   |
|              |          | Cause              | Main motor defect.<br>Main motor connection, harness trouble or disconnection.<br>MCU PWB failure.   |
|              |          | Check and remedy   | Check the main motor operation with SIM 25-1.<br>Check connection of the main motor harness and connector.<br>Replace the main motor.<br>Replace the MCU PWB.  |

| Trouble code |          | Details of trouble |   |
|--------------|----------|--------------------|---|
| Main code    | Sub code |                    |   |
| L4           | 11       | Content            | Shifter motor trouble   |
|              |          | Details            | The shifter home position detection signal is not detected when the shifter is operating.   |
|              |          | Cause              | Shifter motor trouble or harness connection trouble and disconnection.<br>Shifter home position sensor trouble.   |
|              |          | Check and remedy   | Check the shifter motor operation with SIM 3-11.<br>Check connection of the shifter motor harness/connector.<br>Replace the shifter motor.<br>Replace the MCU PWB.  |
| L6           | 10       | Content            | Polygon motor lock trouble  |
|              |          | Details            | The polygon motor does not rotate.<br>The motor lock signal is detected for 6sec or more after the polygon motor rotates.<br>The motor lock signal is detected for 1sec during rotation of the polygon motor. |
|              |          | Cause              | Polygon motor unit failure<br>Polygon motor connection, harness trouble or disconnection<br>MCU PWB failure   |
|              |          | Check and remedy   | Check the polygon motor operation with SIM 61-1.<br>Check the connectors and the harness of polygon motor<br>Replace the polygon motor.<br>Replace the MCU PWB.   |
| L8           | 10       | Content            | Power abnormality detection trouble   |
|              |          | Details            | The power status monitoring signal keeps power OFF state after passing the specified time (2sec).   |
|              |          | Cause              | Circuit around the power status monitoring signal (PSSTS) failure.  |
|              |          | Check and remedy   | Check whether power status monitoring signal (PSSTS) on MCU PWB is OPEN or not.<br>Replace MCU PWB.   |
| U1           | 01       | Content            | FAX battery error   |
|              |          | Details            | The SRAM backup battery voltage on FAX control PWB falls.   |
|              |          | Cause              | The SRAM backup battery voltage on FAX control PWB falls.   |
|              |          | Check and remedy   | Check voltage of the SRAM back up battery.<br>Replace the battery.  |
|              | 02       | Content            | PANEL LOW battery error   |
|              |          | Details            | The voltage of the panel clock function battery falls.  |
|              |          | Cause              | The voltage of the panel clock function battery falls.  |
|              |          | Check and remedy   | Check voltage of panel clock function battery.<br>Replace the battery.  |

| Trouble code     |          | Details of trouble   |   |
|------------------|----------|--|---|
| Main code        | Sub code |  |   |
| U2               | 04       | Content  | EEPROM communication error  |
|                  |          | Details  | EEPROM communication error  |
|                  |          | Cause  | EEPROM defect.<br>ICU PWB EEPROM access circuit failure.  |
|                  |          | Check and remedy   | Check that the EEPROM is properly set.<br>Clear trouble with SIM 16.<br>Replace the MCU PWB.  |
|                  | 20       | Content  | Machine speed code data error   |
|                  |          | Details  | The machine boot speed information is not identical to the model code speed information   |
|                  |          | Cause  | EEPROM defect.<br>SIM operation error.  |
|                  |          | Check and remedy   | Check for matching of the machine and model information setting in SIM26-57.  |
|                  | 40       | Content  | CRUM chip communication error   |
|                  |          | Details  | Error in MCU-CRUM chip communication  |
| Cause            |          | CRUM chip failure.<br>Developing unit contact trouble.<br>MCU PWB failure.   |   |
| Check and remedy |          | Replace the CRUM chip.<br>Check installation of the developing unit.<br>Clear the trouble with SIM 16.<br>Replace the MCU PWB. |   |
|                  |          | Remarks  | CRUM communication error  |
| U7               | 00       | Content  | RIC communication trouble   |
|                  |          | Details  | Error in communication with RIC.<br>Error in communication test after turning on the power or canceling SIM.  |
|                  |          | Cause  | Connector harness contact trouble or disconnection.<br>RIC control PWB trouble.<br>MCU PWB failure.<br>Malfunction by noises.                                   |
|                  |          | Check and remedy   | Check the communication cable, connectors from the RIC box to the main body.  |
| U9               | 00       | Content  | Operation control PWB communication trouble   |
|                  |          | Details  | Communication trouble between MCU and the operation control PWB   |
|                  |          | Cause  | Operation control PWB connector disconnection<br>Harness failure of the operation control PWB and the MCU PWB   |
|                  |          | Check and remedy   | Check the connectors and the harness of the operation control PWB and MCU PWB.<br>Check the grounding of the copier.<br>Check ROM on the operation control PWB. |
|                  | 80       | Content  | Operation control PWB communication trouble (Protocol)  |
|                  |          | Details  | Communication trouble between MCU and the operation control PWB (Protocol error)  |
|                  |          | Cause  | Operation control PWB connector disconnection.<br>Harness failure of the operation control PWB and the MCU PWB.   |
|                  |          | Check and remedy   | Check the connectors and the harness of the operation control PWB and MCU PWB.<br>Check the grounding of the copier.  |

| Trouble code |          | Details of trouble |  |
|--------------|----------|--------------------|--|
| Main code    | Sub code |                    |  |
| U9           | 81       | Content            | Operation control PWB communication trouble (Parity)   |
|              |          | Details            | Communication trouble between MCU and the operation control PWB (Parity error)   |
|              |          | Cause              | Operation control PWB connector disconnection.<br>Harness failure of the operation control PWB and the MCU PWB.            |
|              |          | Check and remedy   | Check the connectors and the harness of the operation control PWB and MCU PWB.<br>Check the grounding of the copier.       |
|              | 82       | Content            | Operation control PWB communication trouble (Overrun)  |
|              |          | Details            | Communication trouble between MCU and the operation control PWB (Overrun error)  |
|              |          | Cause              | Operation control PWB connector disconnection.<br>Harness failure of the operation control PWB and the MCU PWB.            |
|              |          | Check and remedy   | Check the connectors and the harness of the operation control PWB and MCU PWB.<br>Check the grounding of the copier.       |
|              | 84       | Content            | Operation control PWB communication trouble (Framing)  |
|              |          | Details            | Communication trouble between MCU and the operation control PWB (Framing error)  |
|              |          | Cause              | Operation control PWB connector disconnection.<br>Harness failure of the operation control PWB and the MCU PWB.            |
|              |          | Check and remedy   | Check the connectors and the harness of the operation control PWB and MCU PWB.<br>Check the grounding of the copier.       |
|              | 88       | Content            | Operation control PWB communication trouble (Time-out)   |
|              |          | Details            | Communication trouble between MCU and the operation PWB (Time-out error)   |
|              |          | Cause              | Operation control PWB connector disconnection.<br>Harness failure of the operation control PWB and the MCU PWB.            |
|              |          | Check and remedy   | Check the connectors and the harness of the operation control PWB and MCU PWB.<br>Check the grounding of the copier.       |
|              | 99       | Content            | Operation panel destination error  |
|              |          | Details            | An error occurred in checking the destination of the operation panel and the main body.                                    |
|              |          | Cause              | Erroneous connection the operation panel unit.<br>SIM setup error.   |
|              |          | Check and remedy   | Check the destination information of the operation panel unit and the MCU. (Use SIM 26-6 for the destination of the body.) |

| Trouble code     |                     | Details of trouble |   |         |  |
|------------------|---------------------|--------------------|---|---------|--|
| Main code        | Sub code            |                    |   |         |  |
| EE               | EL                  | Content            | Developer adjustment trouble (Over-toned abnormality)   |         |  |
|                  |                     | Details            | An abnormality occurred in execution of automatic developer adjustment.<br>Sample data was detected over-toner.         |         |  |
|                  |                     | Cause              | Toner concentration sensor abnormality.<br>Toner concentration trouble.<br>Developing unit trouble.<br>MCU PWB failure. |         |  |
|                  |                     | Check and remedy   | Use SIM 25-2 to perform the auto developer adjustment.  |         |  |
|                  | EU                  | Content            | Developer adjustment trouble (Under-toned abnormality)  |         |  |
|                  |                     | Details            | An abnormality occurred in execution of automatic developer adjustment.<br>Sample data was detected under-toner.        |         |  |
|                  |                     | Cause              | Toner concentration sensor abnormality.<br>Toner concentration trouble.<br>Developing unit trouble.<br>MCU PWB failure. |         |  |
|                  |                     | Check and remedy   | Use SIM 25-2 to perform the auto developer adjustment.  |         |  |
|                  |                     | PF                 | 00  | Content | PF trouble                                     |
|                  |                     |                    |   | Details | The copy inhibit command from RIC is received. |
| Cause            | Judged by the host. |                    |   |         |  |
| Check and remedy | Inform to the host. |                    |   |         |  |