



Product: 1995 Brother FAX100/570/615/625/635/675, FAX575M/715M/725M, FAX590DT/590MC/825MC/875MC FACSIMILE  
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## PREFACE

This publication is a Service Manual covering the specifications, construction, theory of operation, and maintenance of the Brother facsimile equipment. It includes information required for field troubleshooting and repair—disassembly, reassembly, and adjustment—so that service personnel will be able to understand equipment function, to rapidly repair the equipment and order any necessary spare parts.

To perform appropriate maintenance so that the facsimile equipment is always in best condition for the customer, the service personnel must adequately understand and apply this manual.

This manual is made up of five chapters and appendices.

<b>CHAPTER I.</b>	<b>GENERAL DESCRIPTION</b>
<b>CHAPTER II.</b>	<b>INSTALLATION</b>
<b>CHAPTER III.</b>	<b>THEORY OF OPERATION</b>
<b>CHAPTER IV.</b>	<b>INDICATION AND INFORMATION PRINTOUT OF ERROR</b>
<b>CHAPTER V.</b>	<b>MAINTENANCE</b>
<b>APPENDICES</b>	<b>Circuit Diagrams</b>

This manual describes the model and its versions to be destined for major countries. The specifications and functions are subject to change depending upon each destination.

# CHAPTER I.

## GENERAL DESCRIPTION

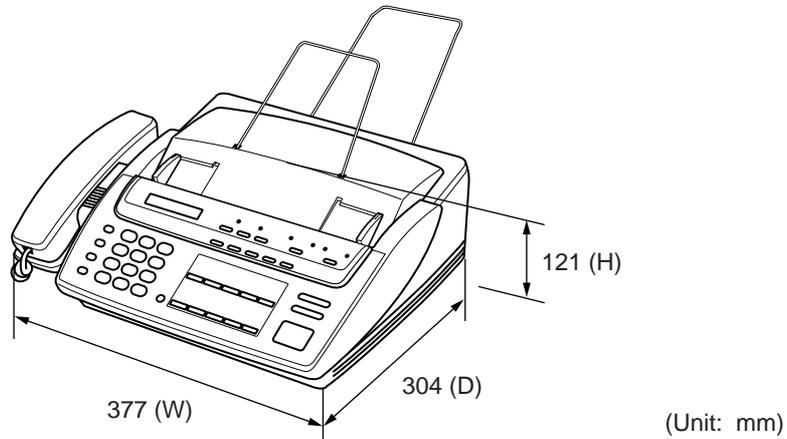
# CONTENTS

- 1. EQUIPMENT OUTLINE ..... I-1
  - 1.1 External Appearance ..... I-1
  - 1.2 Components ..... I-1
- 2. SPECIFICATIONS ..... I-2

# 1. EQUIPMENT OUTLINE

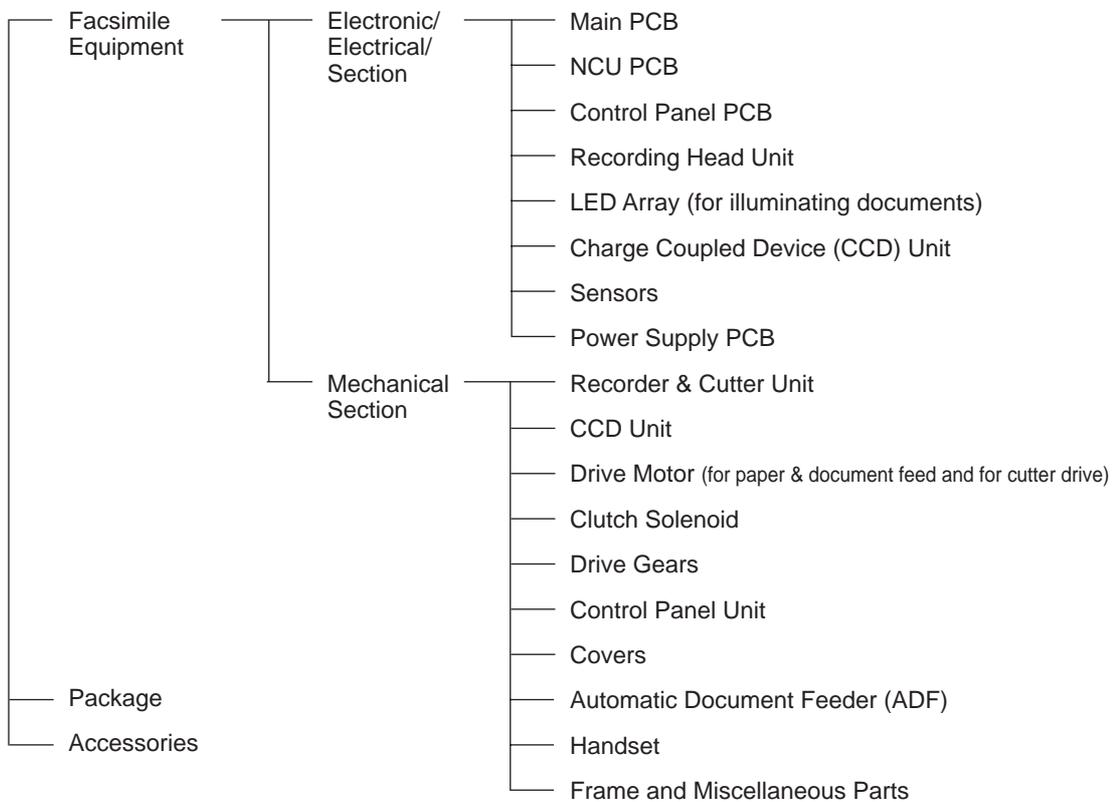
## 1.1 External Appearance

The figure below shows the equipment appearance and approximate dimensions.



## 1.2 Components

The equipment has the following components:



## 2. SPECIFICATIONS

Model	FAX100	FAX615	FAX625	FAX635	FAX675
Color	1138	BN4	BN2	BN4	BN2
Modem Speed	9600 bps				
Coding Method	MH	MH	MH	MH	MH
Transmission Speed	15 sec				
CCITT Group	G3	G3	G3	G3	G3
Input/Output Width	8.5"/8.5"	8.5"/8.5"	8.5"/8.5"	8.5"/8.5"	8.5"/8.5"
Auto Cutter	Yes	Yes	Yes	Yes	Yes
ADF Capacity (pages)	15	15	15	15	15
Anti-curl System	Yes	Yes	Yes	Yes	Yes
Paper Size (Standard thermal/Therma PLUS)	164'/164'	164'/164'	164'/164'	164'/164'	164'/164'
LCD Size	16 x 1				
On-screen Programming	Yes	Yes	Yes	Yes	Yes
Super Fine	Yes	Yes	Yes	Yes	Yes
Smoothing	Yes	Yes	Yes	Yes	Yes
Gray Scale	32	32	32	64	64
One-touch Dialing	10x2	10	10x2	10x2	10x2
Speed Dialing	20	30	20	30	40
Group Dialing	No	No	No	No	No
Telephone Index	No	No	No	No	No
Speakerphone	Monitor	Monitor	Monitor	Monitor	Monitor
Fax/Tel Switch	Yes	Yes	Yes	Yes	Yes
TAD Interface	Yes	Yes	Yes	Yes	Yes
Enhanced Remote Activation	Yes	Yes	Yes	Yes	Yes
Distinctive Ringing	Yes	Yes	Yes	Yes	Yes
Next-Fax Reservation	Yes	No	Yes	Yes	Yes
Help	Yes	Yes	Yes	Yes	Yes
Caller ID	No	No	No	No	Yes
Automatic Redialing	Yes	Yes	Yes	Yes	Yes
Multi-Resolution Transmission	Yes	Yes	Yes	Yes	Yes
Polling	Std/Sec/Del	Std/Sec/Del	Std/Sec/Del	Std/Sec/Del	Std/Sec/Del
Delayed Transmission	Yes, 1 timer				
Coverpage	Yes	Yes	Yes	Yes	Yes
Call Reservation	Yes	Yes	Yes	Yes	Yes
Call Back Message	Yes	Yes	Yes	Yes	Yes
Activity Report	Yes	Yes	Yes	Yes	Yes
Transmission Verification Report	Yes	Yes	Yes	Yes	Yes
Page Memory	No	No	No	No	No
ECM	No	No	No	No	No
Broadcasting	No	No	No	No	No
Quick Scanning	No	No	No	No	No
Out-of-Paper Reception	No	No	No	No	No
Multi Copy	No	No	No	No	No
Multi Transmission	No	No	No	No	No
TAD Type	No	No	No	No	No
ICM Recording Time	No	No	No	No	No
Remote Control	No	No	No	No	No
Paging	No	No	No	No	No
Toll Saver	No	No	No	No	No
Memo/2-Way Recording	No	No	No	No	No
Time/Date Stamp	No	No	No	No	No
Message Center	No	No	No	No	No
OGM	No	No	No	No	No
FAX Forwarding	No	No	No	No	No
FAX Retrieval	No	No	No	No	No
PCI (Missing link) (* : w/o PC FAX RX)	No	(Note 1)	(Note 1)	Option*	Option*
Password	No	No	No	No	No
Paper Save	No	No	No	No	No
Day-Night Mode	No	No	No	No	No
Elec. Vol. Control	No	No	No	No	No
FAX-on-demand	No	No	No	No	No
Voice-on-demand	No	No	No	No	No
Fax Mail Box	No	No	No	No	No
Voice Mail Box	No	No	No	No	No

(Note 1) No: Asia and Taiwan  
Option\*: Gulf, China, and Saudi Arabia

Model	FAX715M	FAX725M	FAX825MC	FAX875MC
Color	BN2	BN4	BN2	BN2
Modem Speed	9600 bps	14400 bps	14400 bps	14400 bps
Coding Method	MH	MH	MH	MH
Transmission Speed	15 sec	9 sec	9 sec	9 sec
CCITT Group	G3	G3	G3	G3
Input/Output Width	8.5"/8.5"	8.5"/8.5"	8.5"/8.5"	8.5"/8.5"
Auto Cutter	Yes	Yes	Yes	Yes
ADF Capacity (pages)	15	15	15	15
Anti-curl System	Yes	Yes	Yes	Yes
Paper Size (Standard thermal/Therma PLUS)	164'/164'	164'/164'	164'/164'	164'/164'
LCD Size	16 x 1	16 x 1	16 x 1	16 x 1
On-screen Programming	Yes	Yes	Yes	Yes
Super Fine	Yes	Yes	Yes	Yes
Smoothing	Yes	Yes	Yes	Yes
Gray Scale	64	64	64	64
One-touch Dialing	10x2	10x2	10x2	10x2
Speed Dialing	40	40	40	80
Group Dialing	6	6	6	6
Telephone Index	Yes	Yes	Yes	Yes
Speakerphone	Monitor	Monitor	Monitor	Monitor
Fax/Tel Switch	Yes	Yes	Yes	Yes
TAD Interface	Yes	Yes	Yes	Yes
Enhanced Remote Activation	Yes	Yes	Yes	Yes
Distinctive Ringing	Yes	(Note 2)	Yes	(Note 3)
Next-Fax Reservation	Yes	Yes	Yes	Yes
Help	Yes	Yes	Yes	Yes
Caller ID	Yes	(Note 2)	Yes	(Note 3)
Automatic Redialing	Yes	Yes	Yes	Yes
Multi-Resolution Transmission	Yes	Yes	Yes	Yes
Polling	Std/Sec/Del	Std/Sec/Del	Std/Sec/Del/Seq	Std/Sec/Del/Seq
Delayed Transmission	Yes, 3 timers	Yes, 3 timers	Yes, 3 timers	Yes, 3 timers
Coverpage	Yes	Yes	Yes	Yes
Call Reservation	Yes	Yes	Yes	Yes
Call Back Message	Yes	Yes	Yes	Yes
Activity Report	Yes	Yes	Yes	Yes
Transmission Verification Report	Yes	Yes	Yes	Yes
Page Memory	10 pages	10 pages	50 pages	50 pages
ECM	Yes	Yes	Yes	Yes
Broadcasting	Yes	Yes	Yes	Yes
Quick Scanning	Yes	Yes	Yes	Yes
Out-of-Paper Reception	Yes	Yes	Yes	Yes
Multi Copy	Yes, w/sort	Yes, w/sort	Yes, w/sort	Yes, w/sort
Multi Transmission	Yes	Yes	Yes	Yes
TAD Type	No	No	IC Digital	IC Digital
ICM Recording Time	No	No	(18 min)	(18 min)
Remote Control	No	No	Full	Full
Paging	No	No	Yes	Yes
Toll Saver	No	No	Yes	Yes
Memo/2-Way Recording	No	No	Yes	Yes
Time/Date Stamp	No	No	Yes	Yes
Message Center	No	No	Yes	Yes
OGM	No	No	Yes	Yes
FAX Forwarding	No	No	Yes	Yes
FAX Retrieval	No	No	Yes	Yes
PCI (Missing link) (* : w/o PC FAX RX)	Option	Option	Option	Option
Password	No	No	No	No
Paper Save	No	No	No	No
Day-Night Mode	No	No	No	No
Elec. Vol. Control	No	No	No	No
FAX-on-demand			Yes	Yes
Voice-on-demand	No	No	Yes	Yes
Fax Mail Box	No	No	Yes, 5	Yes, 5
Voice Mail Box	No	No	Yes, 5	Yes, 5

(Note 2) No: Taiwan  
Yes: Other countries

(Note 3) No: Asia, Gulf, China, and Saudi Arabia  
Yes: Other countries

Model	FAX570	FAX575M	FAX590DT/590MC
Color	1138/1293 (Note 4)	1138/1293 (Note 4)	1138/1293 (Note 4)
Modem Speed	9600 bps	9600 bps	14400 bps
Coding Method	MH	MH	MH
Transmission Speed (Brother chart) (ITU-T No. 1 chart)	15 sec 19 sec	13 sec 15 sec	9 sec 10 sec
CCITT Group	G3	G3	G3
Input/Output Width	A4/A4	A4/A4	A4/A4
Auto Cutter	Yes	Yes	Yes
ADF Capacity (pages)	15	15	15
Anti-curl System	Yes	Yes	Yes
Paper Size (Standard thermal/Therma PLUS)	50 m/50 m	50 m/50 m	50 m/50 m
LCD Size	16 x 1	16 x 1	16 x 1
On-screen Programming	Yes	Yes	Yes
Super Fine	Yes	Yes	Yes
Smoothing	Yes	Yes	Yes
Gray Scale	32	64	64
One-touch Dialing	10x2	10x2	10x2
Speed Dialing	40	40	40
Group Dialing	None	6	6
Telephone Index	No	Yes	Yes
Speakerphone	No	No	No
Fax/Tel Switch	Yes	Yes	Yes
TAD Interface	Yes	Yes	Yes
Enhanced Remote Activation	Yes	Yes	Yes
Next-Fax Reservation	Yes	Yes	Yes
Help	Yes	Yes	Yes
Caller ID	UK/Holland/Sweden	UK	UK/Holland/Sweden
Automatic Redialing	Yes	Yes	Yes
Multi-Resolution Transmission	Yes	Yes	Yes
Polling	Std/Sec/Del	Std/Sec/Del	Std/Sec/Del/Seq
Delayed Transmission	Yes, 1 timer	Yes, 3 timers	Yes, 3 timers
Coverpage	Yes	Yes	Yes
Call Reservation	Yes	Yes	Yes
Call Back Message	Yes	Yes	Yes
Journal Report (Activity Report)	Yes	Yes	Yes
Transmission Verification Report	Yes	Yes	Yes
Page Memory (Brother chart) (CCITT No. 1 chart)	No No	10 pages 9 pages	55 pages 49 pages
ECM	No	Yes	Yes
Broadcasting	No	60	60
Quick Scanning	No	No	No
Out-of-Paper Reception	No	Yes	Yes
Multi Copy	No	Yes, w/stack & sort	Yes, w/stack & sort
Multi Transmission	No	Yes	Yes
TAD Type	No	No	IC Digital
ICM Recording Time	No	No	13 min
Remote Control	No	No	Yes
Paging	No	No	Yes
Toll Saver	No	No	Yes
Time/Date Stamp	No	No	Yes
Message Center	No	No	Yes
OGM	No	No	Yes
FAX Forwarding	No	No	Yes
FAX Retrieval	No	No	Yes
Connect 5000 Connectivity (PCI or Missing link) (* : w/o PC FAX RX)	No	Yes	Yes
Backup for Voice	No	No	6 hours
Backup for Page Memory	No	No	6 hours
Backup for Clock	15 hours	15 hours	15 hours
Password	No	No	No
FAX-on-demand	No	No	Up to 50 messages
Voice-on-demand	No	No	Up to 50 messages
Fax Mail Box	No	No	Yes, 5
Voice Mail Box	No	No	Yes, 5

(Note 4) 1293: German and UK versions  
1138: Other versions

# CHAPTER **II**.

## INSTALLATION

CHAPTER **III**.  
THEORY OF OPERATION

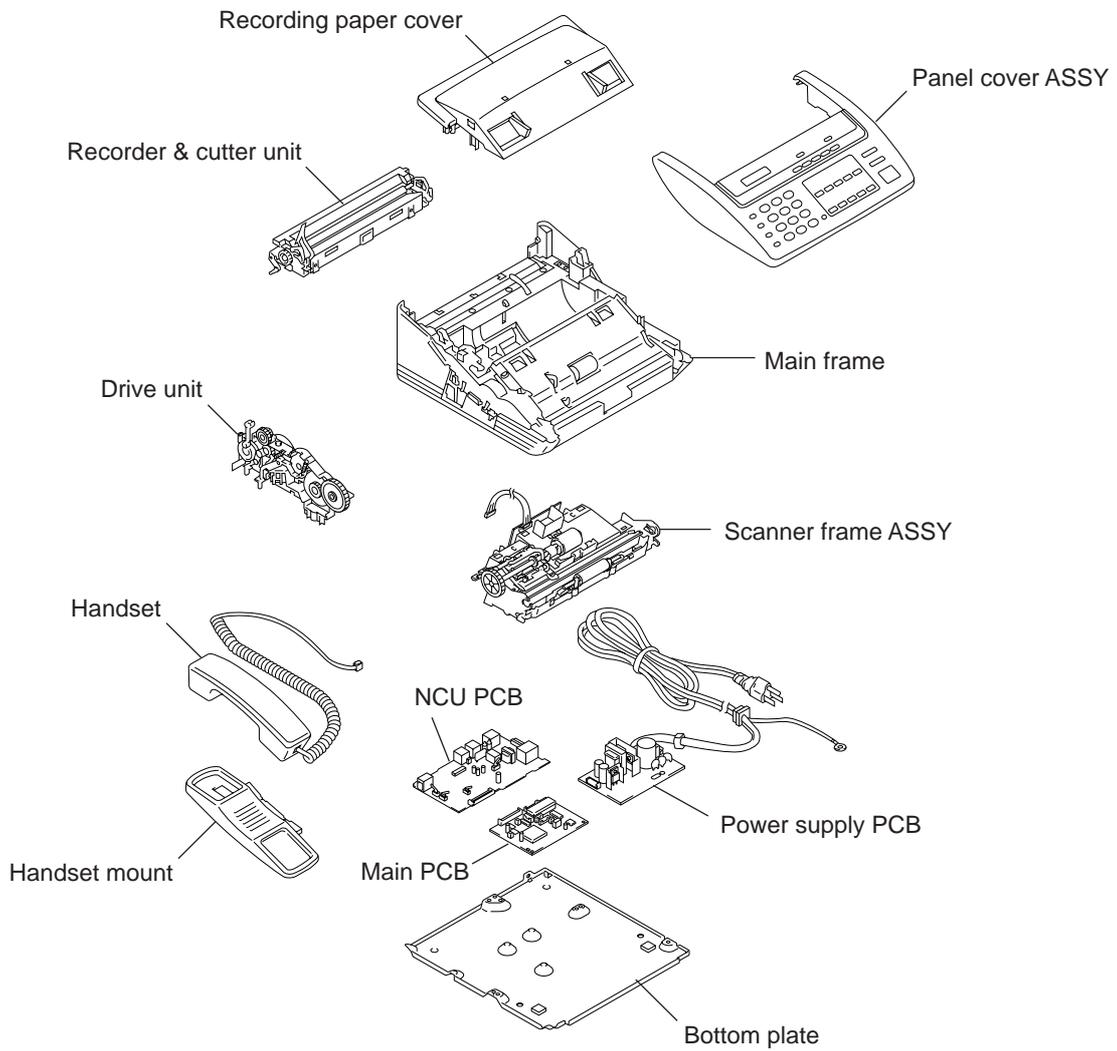
# CONTENTS

<b>1. OVERVIEW .....</b>	<b>III-1</b>
1.1 Mechanical Layout .....	III-1
1.2 Functional Block Diagram .....	III-1
<b>2. MECHANISMS .....</b>	<b>III-2</b>
2.1 Transmitting Mechanism (Feeding and Scanning Documents) .....	III-2
2.1.1 Automatic document feeder (ADF) .....	III-2
2.1.2 Scanner .....	III-2
2.2 Receiving Mechanism (Feeding Recording Paper & Recording Data) ...	III-3
2.2.1 Anti-curl system (ACS) .....	III-3
2.2.2 Automatic cutter .....	III-3
2.3 Sensors .....	III-4
2.4 Power Transmission Shift by the Planetary Gear Train and Clutch Solenoid .....	III-6
2.4.1 Description of planetary gear train .....	III-6
2.4.2 Power transmission for four operation modes .....	III-7
[ 1 ] Recording mode (Solenoid: OFF, Motor rotation: Forward) .....	III-7
[ 2 ] Scanning mode (Solenoid: OFF, Motor rotation: Reverse) .....	III-8
[ 3 ] Copying mode (Solenoid: ON → OFF, Motor rotation: Forward) .	III-8
[ 4 ] Cutter driving mode (Solenoid: ON, Motor rotation: Reverse) .....	III-9
2.4.3 Power transmission route .....	III-10
<b>3. CONTROL ELECTRONICS .....</b>	<b>III-11</b>
3.1 Configuration .....	III-11
3.2 Main PCB .....	III-11
3.2.1 FAX100/570/615/625/635/675/575M/715M .....	III-12
[ 1 ] Primary function group .....	III-12
[ 2 ] ROM and DRAM group .....	III-13
[ 3 ] Image processing group .....	III-14
[ 4 ] Analog signal processing group .....	III-15
3.2.2 FAX725M/590DT/590MC/825MC/875MC .....	III-16
[ 1 ] Primary function group .....	III-16
[ 2 ] DRAM group .....	III-17

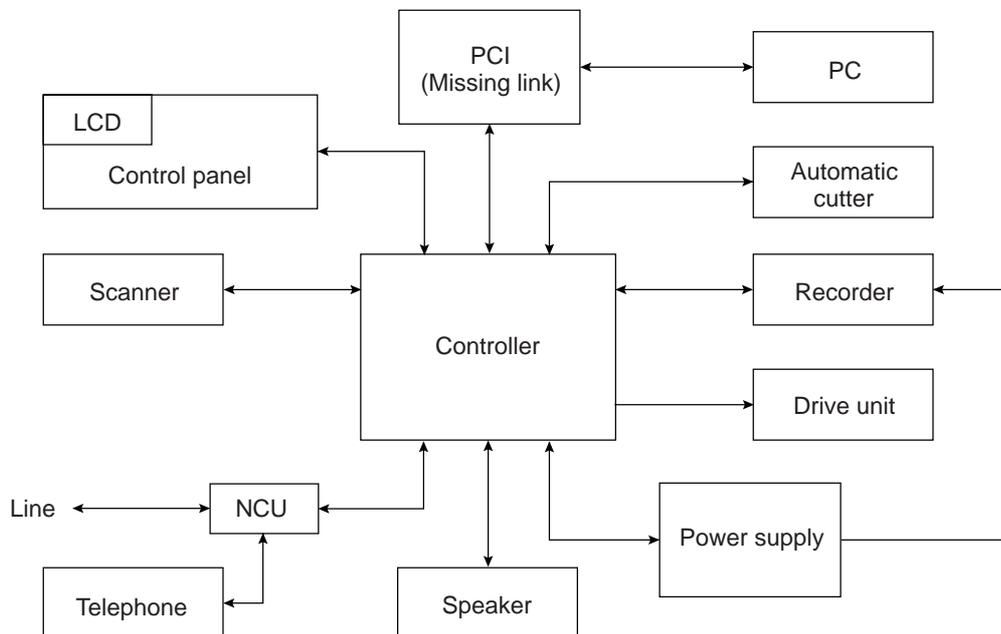
[ 3 ] Image processing group .....	III-18
[ 4 ] Analog signal processing group .....	III-19
[ 5 ] MODEM .....	III-20
3.3 NCU PCB .....	III-21
3.4 Control Panel PCB .....	III-23
3.5 Power Supply .....	III-24

# 1. OVERVIEW

## 1.1 Mechanical Layout



## 1.2 Functional Block Diagram



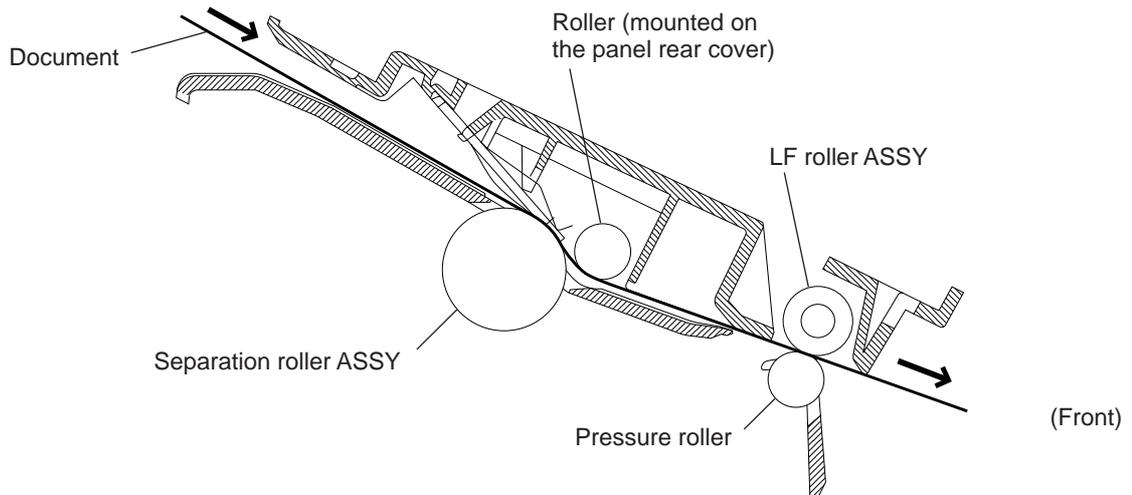
## 2. MECHANISMS

### 2.1 Transmitting Mechanism (Feeding and Scanning Documents)

The transmitting mechanism consists of the document stacker, automatic document feeder (ADF), document feeding related rollers, scanner, and document sensors. (For details about the sensors, refer to Section 2.3.)

If the operator sets documents on the stacker and starts the sending operation, the ADF feeds those documents into the equipment, page by page. Each document advances with the separation roller to the scanner, and then it is fed out of the equipment with the LF roller.

For the drive power source, refer to Section 2.4.



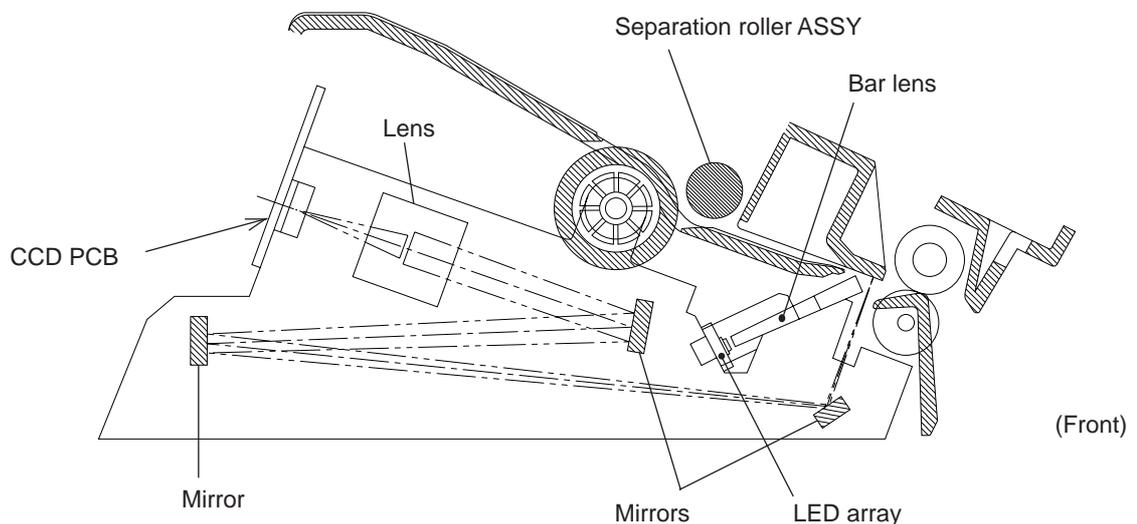
#### 2.1.1 Automatic document feeder (ADF)

The ADF, which consists of the separation roller and separator, feeds documents set on the document stacker, starting from the bottom sheet to the top, page by page, due to the frictional difference among the separation roller, the documents, and the separator.

#### 2.1.2 Scanner

The scanner uses a charge coupled device (CCD) image sensor.

As shown below, the LED array illuminates a document and the reflected light of the scanned image data is transmitted via the mirrors into the lens which reduces the scanned data so as to form the image on the CCD.

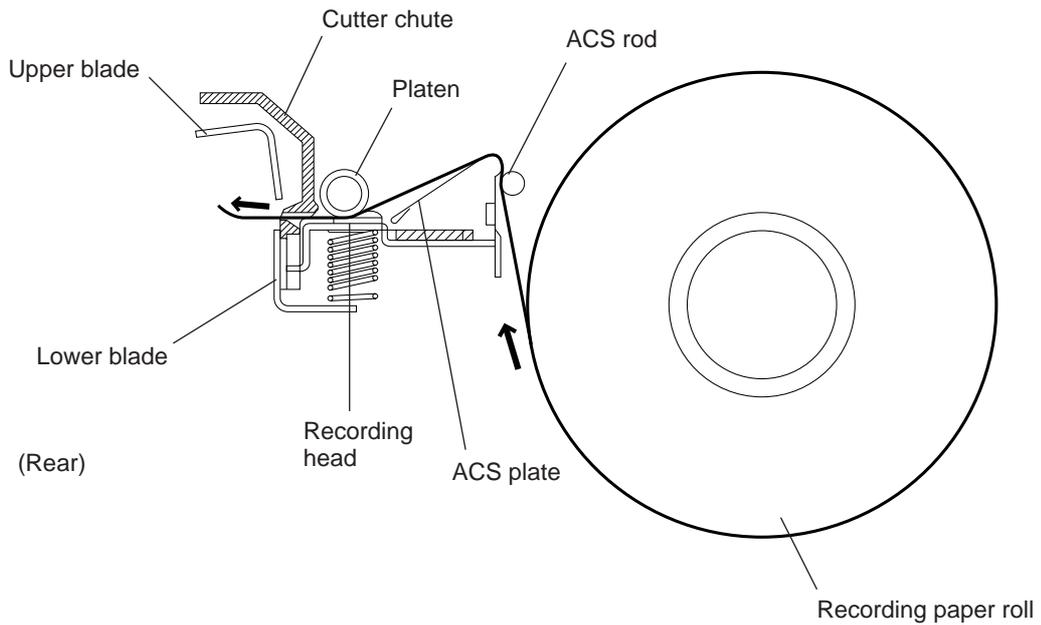


## 2.2 Receiving Mechanism (Feeding Recording Paper & Recording Data)

The receiving mechanism consists of the recording paper roll holder, anti-curl system (ACS), platen, thermal recording head, automatic cutter, and sensors. (For details about the sensors, refer to Section 2.3.)

The recording paper is routed through the ACS to the recording head which prints onto the heat-sensitive recording paper pressed by the platen according to received image signals. The printed paper is further fed through the cutter chute and cut by the automatic cutter page by page.

For the drive power source, refer to Section 2.4.



### 2.2.1 Anti-curl system (ACS)

The ACS eliminates curl peculiar to the rolled recording paper by curving the paper towards the opposite side of the curl with the ACS rod and the ACS plate.

### 2.2.2 Automatic cutter

The automatic paper cutter consists of an upper blade (rotary) and a lower blade (stationary). As the upper blade rotates around the left end as a support, the recording paper will be cut. Upon completion of cutting operation, the upper blade returns to the home position which is detected by the cutter sensor.

## 2.3 Sensors

This equipment has two photosensors and four mechanical sensors as described below.

### Photosensors

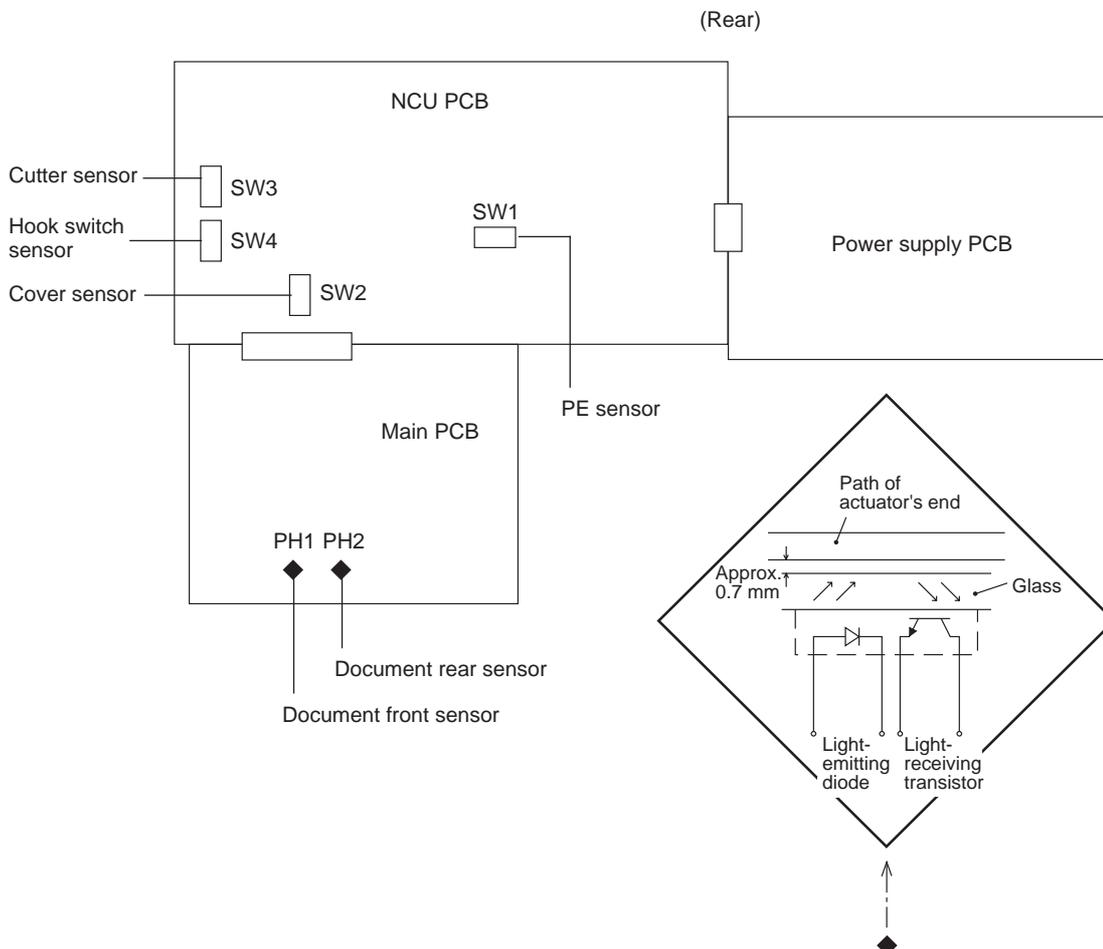
- Document front sensor which detects a presence of documents.
- Document rear sensor which detects the leading and trailing edges of pages to tell the control circuitry when the leading edge of a new page has reached the starting position and when the scan for that page is over.

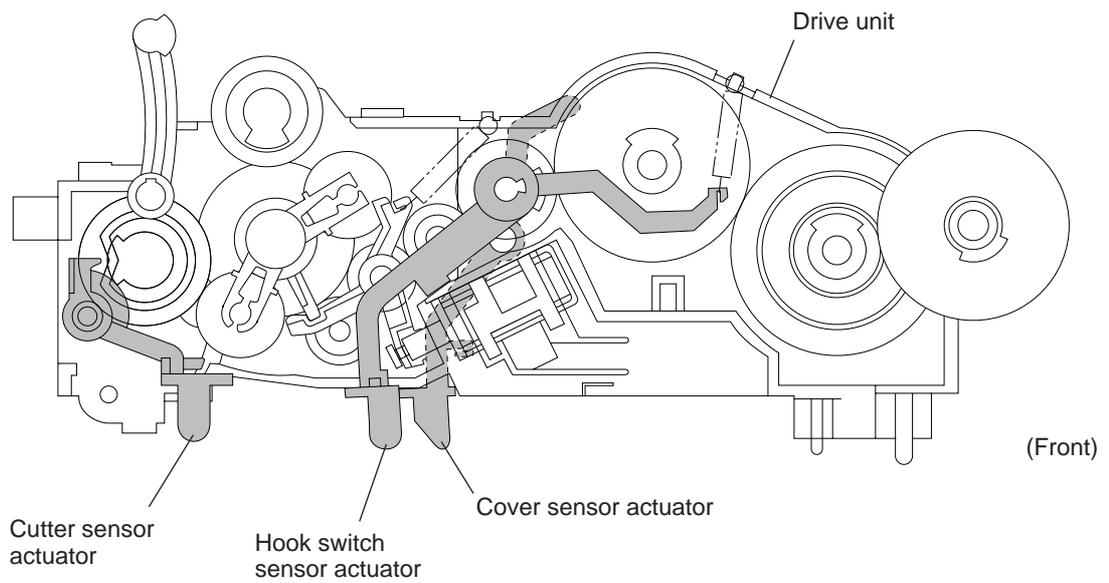
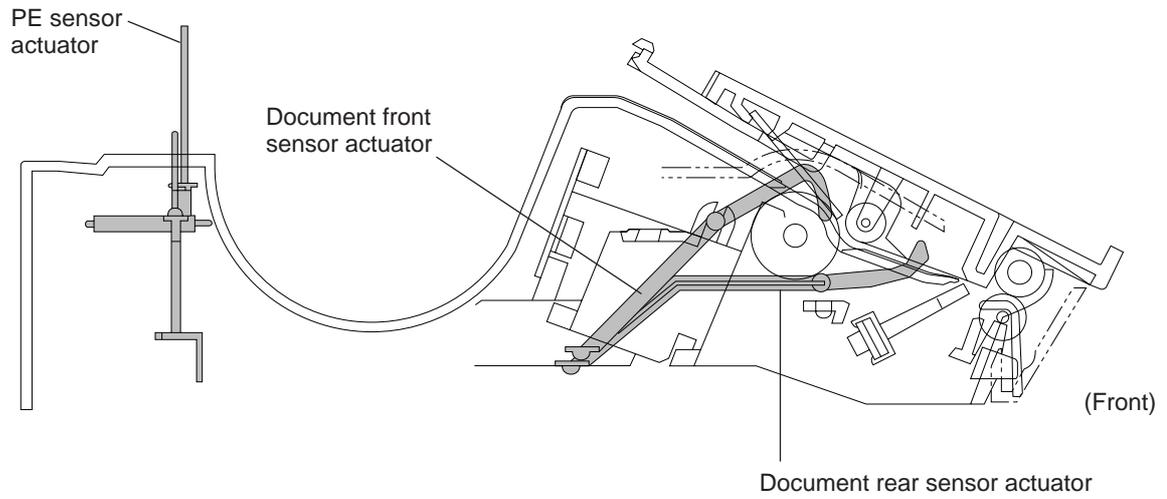
These two photosensors are located on the main PCB. They are of a reflection type consisting of a light-emitting diode and a light-receiving transistor. Each of them has an actuator separately arranged (see the next page). If an actuator is activated, its white end will come to the path of light issued from the light-emitting diode and reflect its light. The moment the reflected light enters the light-receiving transistor, the sensor signals the detection.

### Mechanical sensors

- PE (paper empty) sensor which detects whether the recording paper is present.
- Cover sensor which detects whether the recording paper cover is closed.
- Cutter sensor which detects the home position of the upper rotary blade of the automatic cutter.
- Hook switch sensor which detects whether the handset is placed on the handset mount.

These four sensors are located on the NCU PCB. Each of them has an actuator separately arranged (see the next page). If an actuator is activated, its lower end pushes down the lever provided on the corresponding sensor so that the sensor signals the detection.





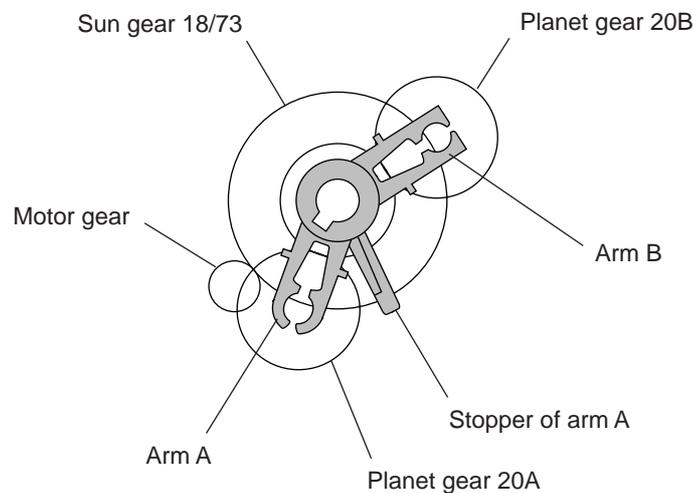
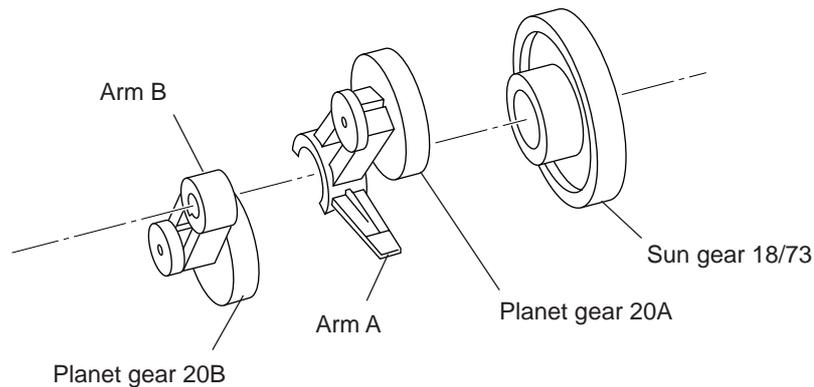
**Location of Sensor Actuators**

## 2.4 Power Transmission Shift by the Planetary Gear Train and Clutch Solenoid

The equipment has a single drive motor whose power transmission route can be switched by the planetary gear train and the clutch solenoid. Accordingly, the equipment mechanism can function in four operation modes (recording, scanning, copying, and cutter driving modes).

### 2.4.1 Description of planetary gear train

The planetary gear train consists of the sun gear 18/73, two planet gears 20, arm A, and arm B, as shown below.

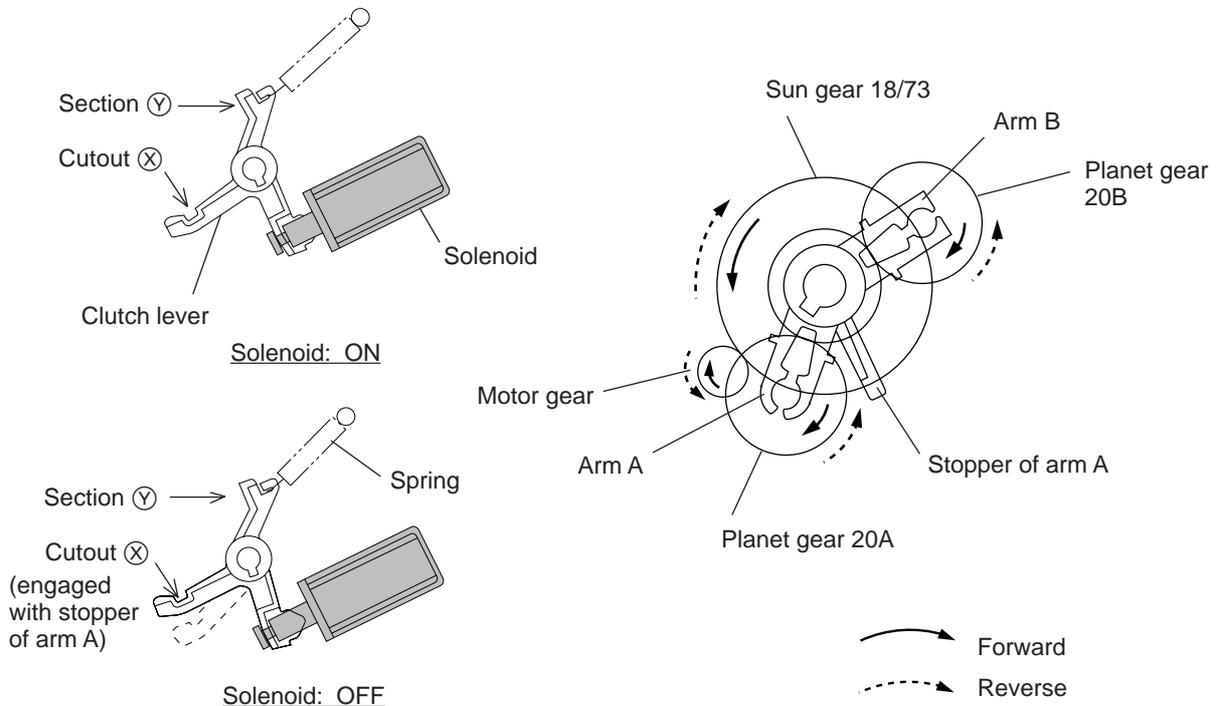


If the motor rotates, the sun gear 18/73 rotates so that the rotational force is transmitted to the engagement between the sun gear and the planet gears 20. Since the arms and planet gears are so designed that the moment of the arms is less than that of the planet gears, the arms turn around the center shaft in the same direction as the sun gear 18/73.

If the planet gear(s) becomes engaged with any other gear so that the arm cannot turn furthermore, the rotational force of the sun gear 18/73 is transmitted to that planet gear. Accordingly, the planet gear starts rotation in the opposite direction of the sun gear 18/73.

## 2.4.2 Power transmission for four operation modes

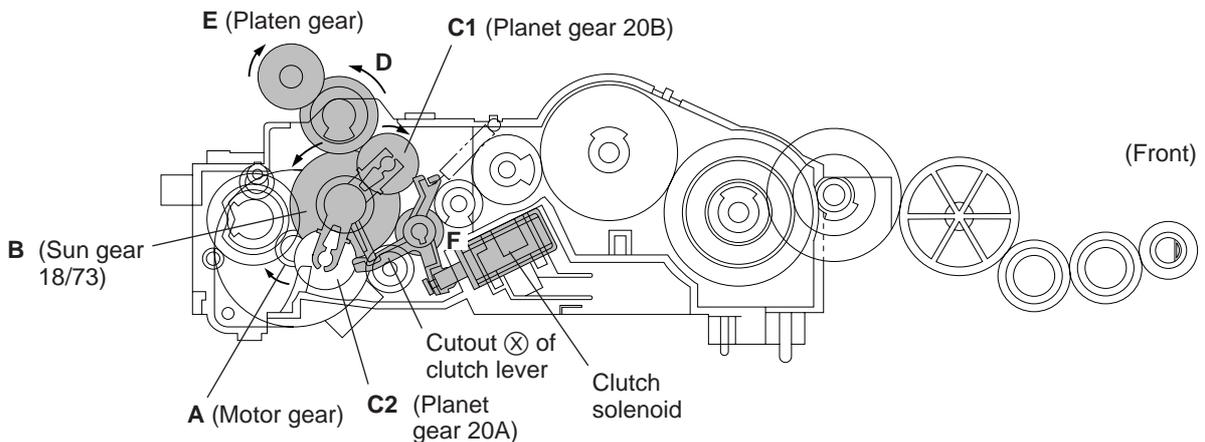
Depending upon the clutch solenoid ON/OFF state and the motor rotation direction, the planetary gear train switches the power transmission route for the four operation modes.



### [ 1 ] Recording mode (Solenoid: OFF, Motor rotation: Forward)

In the recording mode, the control system deactivates the clutch solenoid (see the above figure, Solenoid: OFF). Therefore, when the motor rotates in the forward direction, the clutch lever turns clockwise with the spring and its cutout (X) becomes engaged with the stopper of arm A. Once arm A is locked, the planet gear 20A (C2) will not be engaged with any other gear but simply idle.

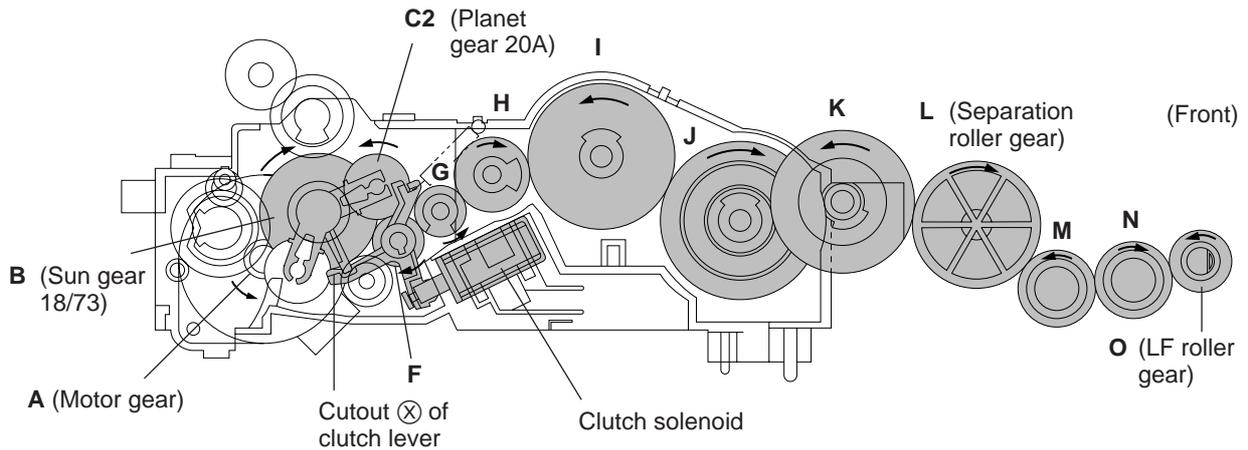
The motor rotation turns the sun gear 18/73 (B) counterclockwise so that the planet gear 20B (C1) transmits the rotation to the planet gear (E) via the gear D.



**[ 2 ] Scanning mode (Solenoid: OFF, Motor rotation: Reverse)**

Just as in the recording mode, the control system deactivates the clutch solenoid in the scanning mode to lock arm A.

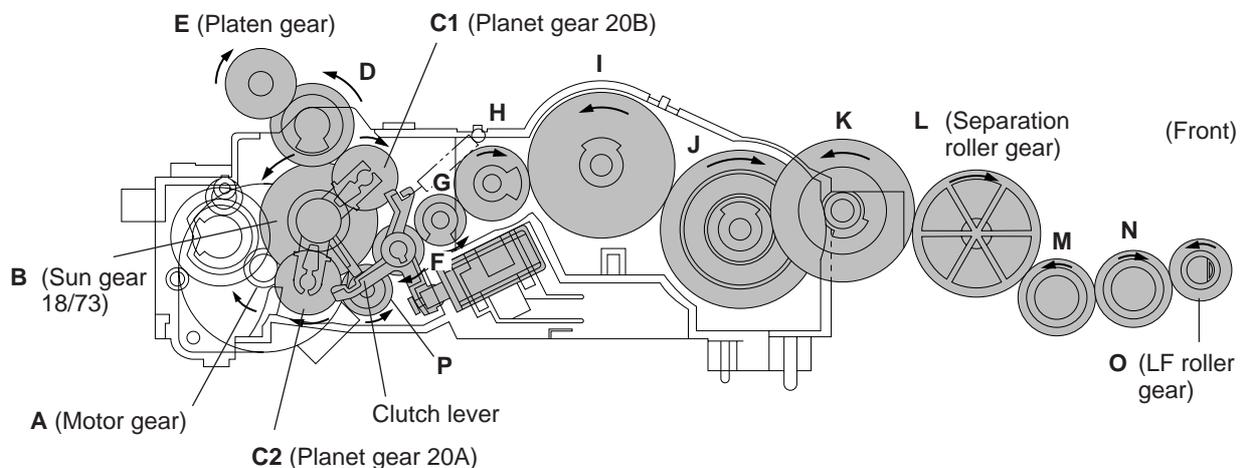
The motor rotates in the reverse direction and the sun gear 18/73 (B) rotates clockwise so that the planet gear 20A (C2) transmits the rotation to the separation roller gear (L) and LF roller gear (O) via the several gears.



**[ 3 ] Copying mode (Solenoid: ON → OFF, Motor rotation: Forward)**

The control system at first activates the clutch solenoid to release the stopper of arm A from coutout ⊗ of the clutch lever while rotating the motor in the forward direction. Accordingly, the sun gear 18/73 (B) rotates counterclockwise so that both the planet gears 20B (C1) and 20A (C2) transmit the rotation to the platen gear (E) and the roller gears (separation roller gear and LF roller gear), respectively.

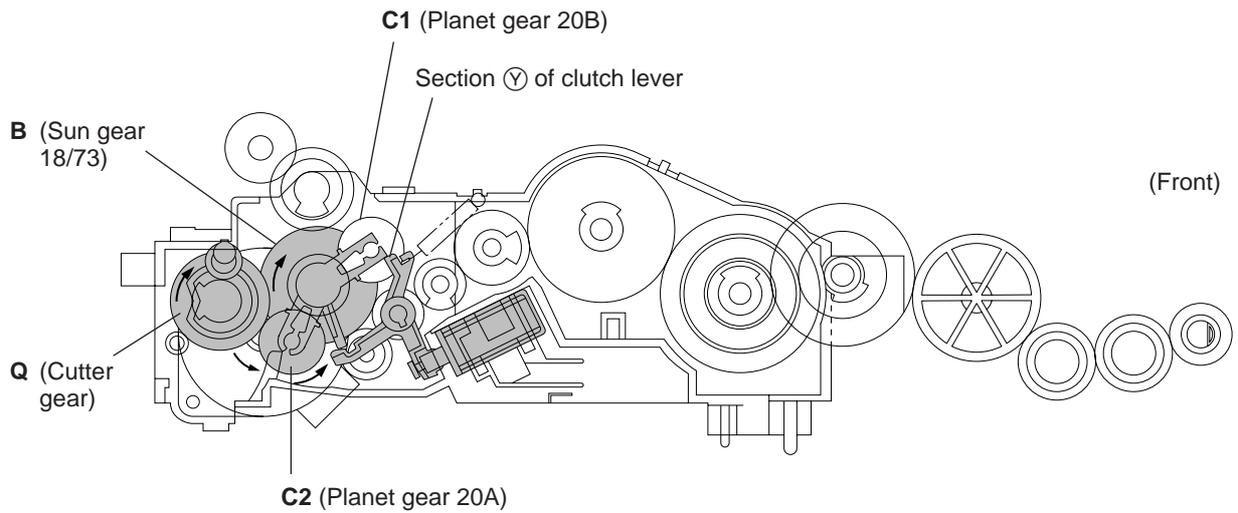
Once the planet gear 20A becomes engaged with the gear P, the control system deactivates the clutch solenoid.



**[ 4 ] Cutter driving mode (Solenoid: ON, Motor rotation: Reverse)**

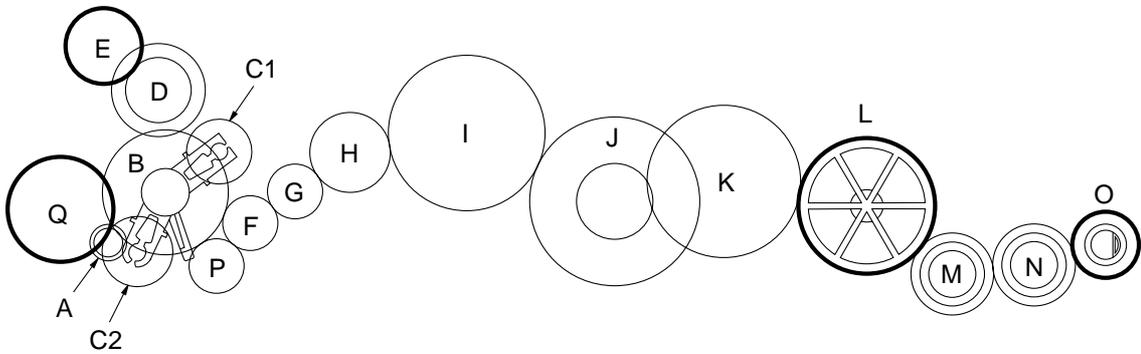
The control system activates the clutch solenoid to release the stopper of arm A from cutout ⊗ of the clutch lever. When the motor rotates in the reverse direction, the sun gear 18/73 (B) rotates clockwise so that the planet gear 20A (C2) transmits the rotation to the cutter gear (Q).

Since the planet gear 20B (C1) is blocked by section ⊙ of the clutch lever, it remains idling without engaging with any other gear.



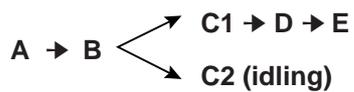
### 2.4.3 Power transmission route

Rotation of the motor gear is transmitted as shown below.



A: Motor gear	I: Gear 44A
B: Sun gear 18/73	J: Gear 21/50
C1: Planet gear 20B	K: Gear 44B
C2: Planet gear 20A	L: Separation roller gear
D: Gear 18/26	M: Idle gear 24A
E: Platen gear	N: Idle gear 24B
F: Gear 16A	O: LF roller gear
G: Gear 16B	P: Gear 16C
H: Gear 24	Q: Cutter gear

#### [ 1 ] Recording Mode (Solenoid: OFF, Motor rotation: forward)



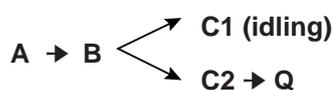
#### [ 2 ] Scanning Mode (Solenoid: OFF, Motor rotation: reverse)



#### [ 3 ] Copying Mode (Solenoid: ON $\rightarrow$ OFF, Motor rotation: forward)



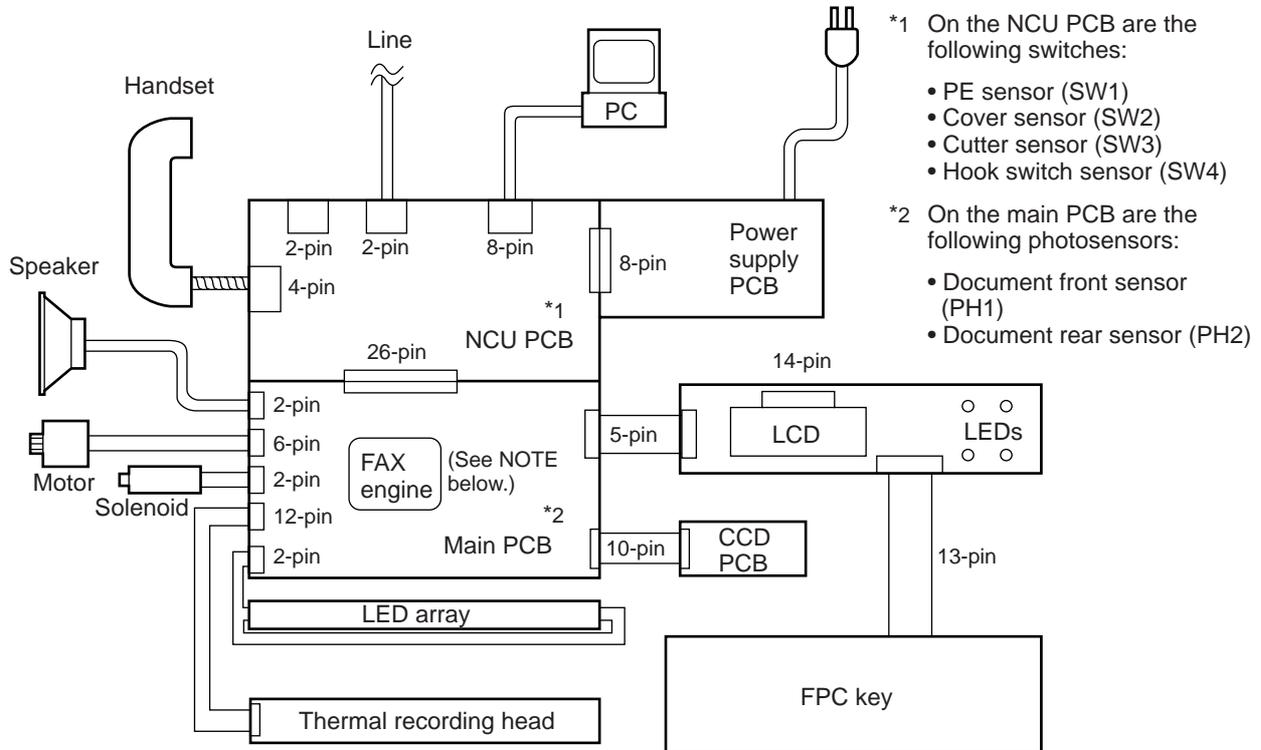
#### [ 4 ] Cutter Driving Mode (Solenoid: ON, Motor rotation: reverse)



# 3. CONTROL ELECTRONICS

## 3.1 Configuration

The hardware configuration of the facsimile equipment is shown below.

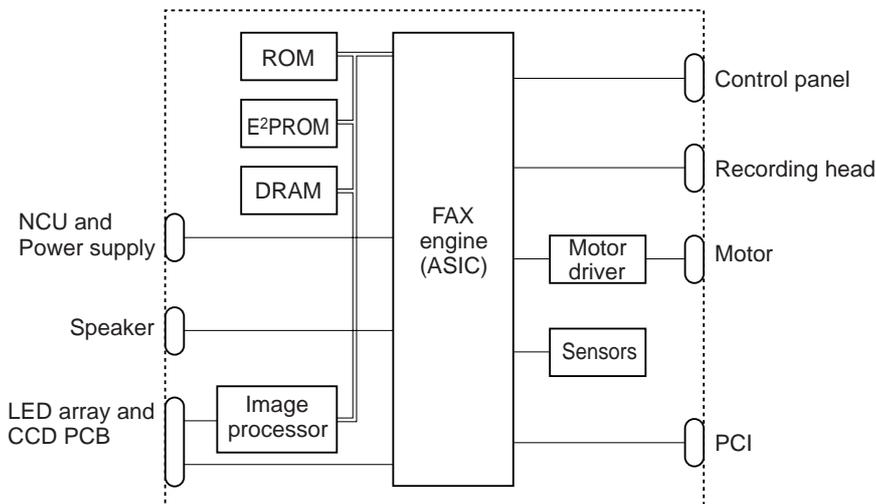


NOTE: The FAX engine includes a CPU and gate array. In the FAX100/570/615/625/635/675/575M/715M, it also includes a MODEM.

Configuration of Facsimile Equipment

## 3.2 Main PCB

The main PCB, which is the nucleus controlling the entire operation of the equipment, consists of a FAX engine (ASIC), memories, MODEM (except for FAX100/570/615/625/635/675/575M/715M), motor drive circuitry, sensor detection circuitry, and analog circuits for scanning, recording, and power transmission switching.

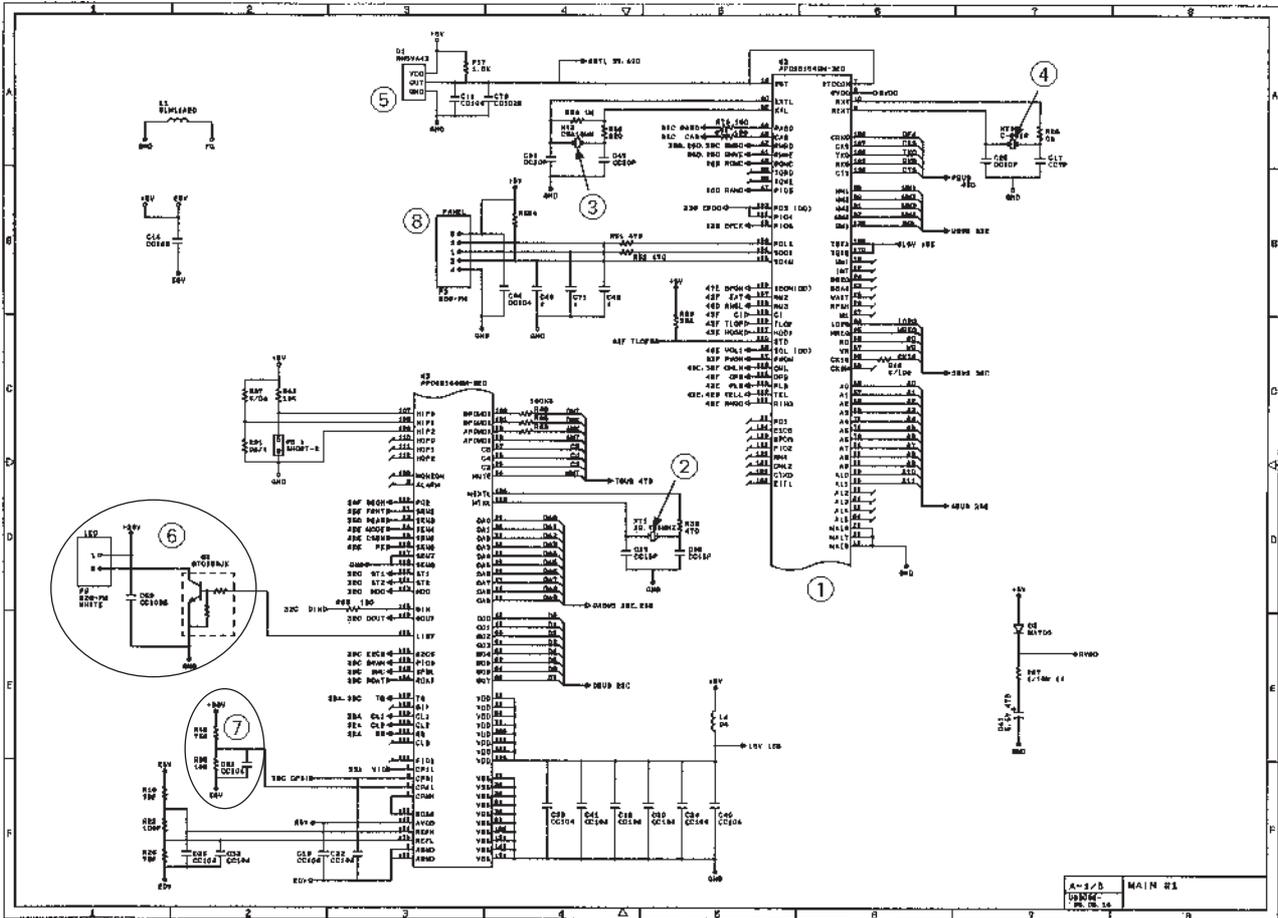


E<sup>2</sup>PROM: Electrically Erasable Programmable Read-only Memory  
 DRAM: Dynamic Random Access Memory

Block Diagram of Main PCB

### 3.2.1 FAX100/570/615/625/635/675/575M/715M

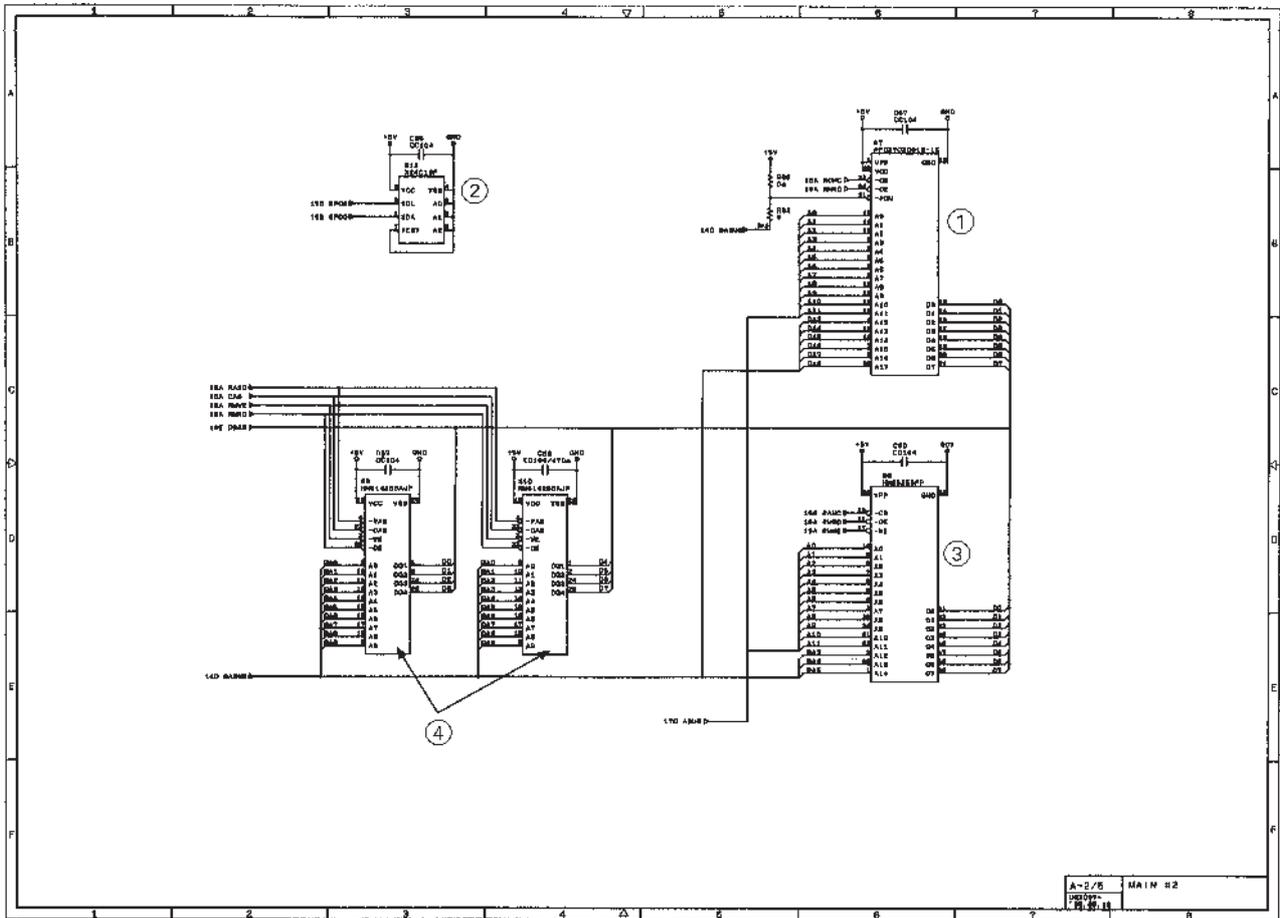
#### [ 1 ] Primary function group



Main PCB Circuit Diagram 1/4

- ① FAX engine (ASIC) which integrates a CPU, MODEM and gate array
- ② Clock for MODEM
- ③ Clock for CPU
- ④ Clock for calendar clock
- ⑤ Reset IC
- ⑥ LED array light intensity control circuit and connector
- ⑦ Recording head drive voltage detector
- ⑧ Control panel connector

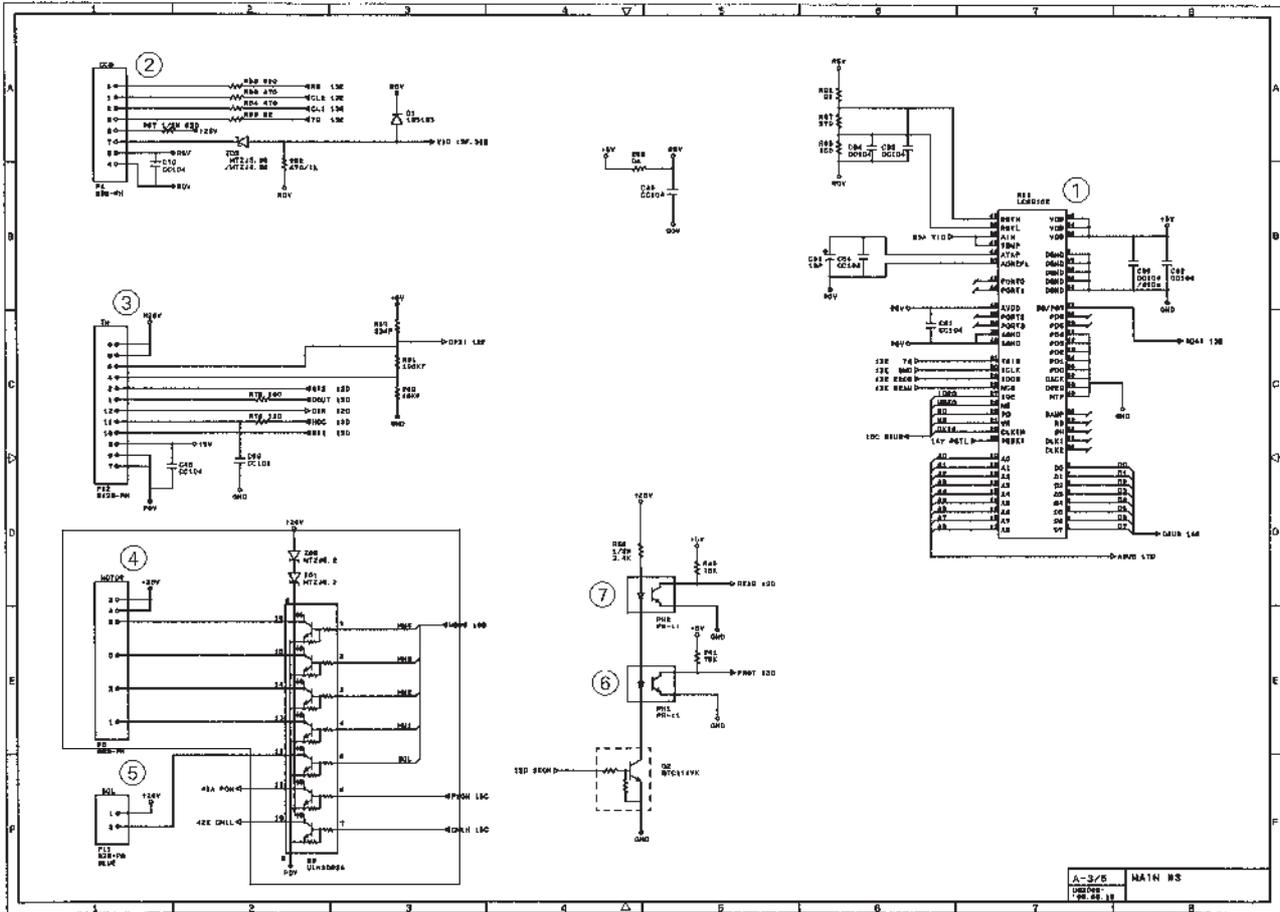
[ 2 ] ROM and DRAM group



Main PCB Circuit Diagram 2/4

- ① ROM (2-megabit. Note that the sample machines for demonstration have a 4-megabit ROM.)
- ② E<sup>2</sup>PROM (16-kilobit)
- ③ DRAM (256-kilobit) for the FAX100/570/615/625/635/675
- ④ DRAMs (256-kilobit) for the FAX575M/715M

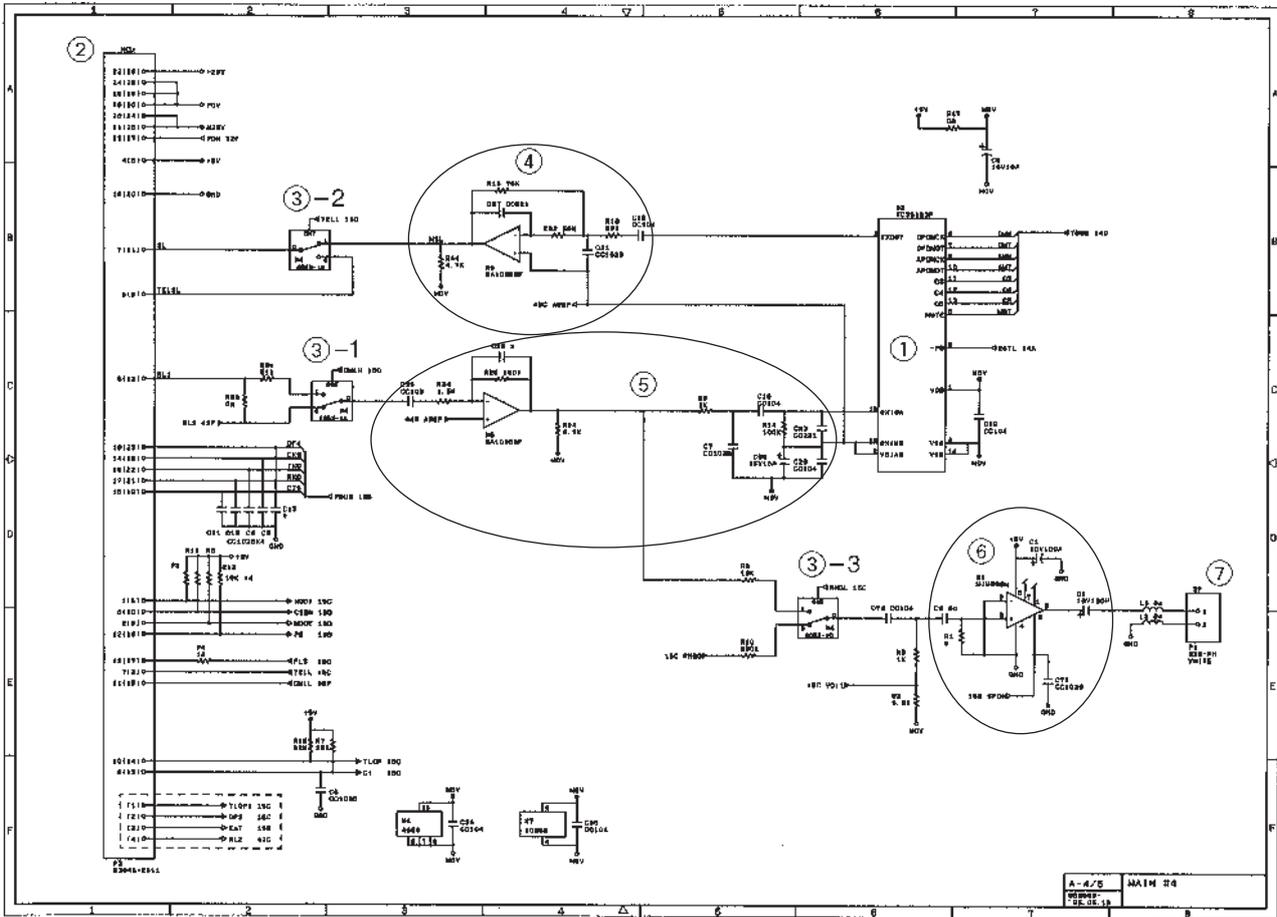
[ 3 ] Image processing group



Main PCB Circuit Diagram 3/4

- ① Image processor (Image processing IC)
- ② Connector for the CCD PCB
- ③ Recording head temperature detector and head connector
- ④ Motor driver and connector
- ⑤ Clutch solenoid connector
- ⑥ Document front sensor (photosensor)
- ⑦ Document rear sensor (photosensor)

[ 4 ] Analog signal processing group

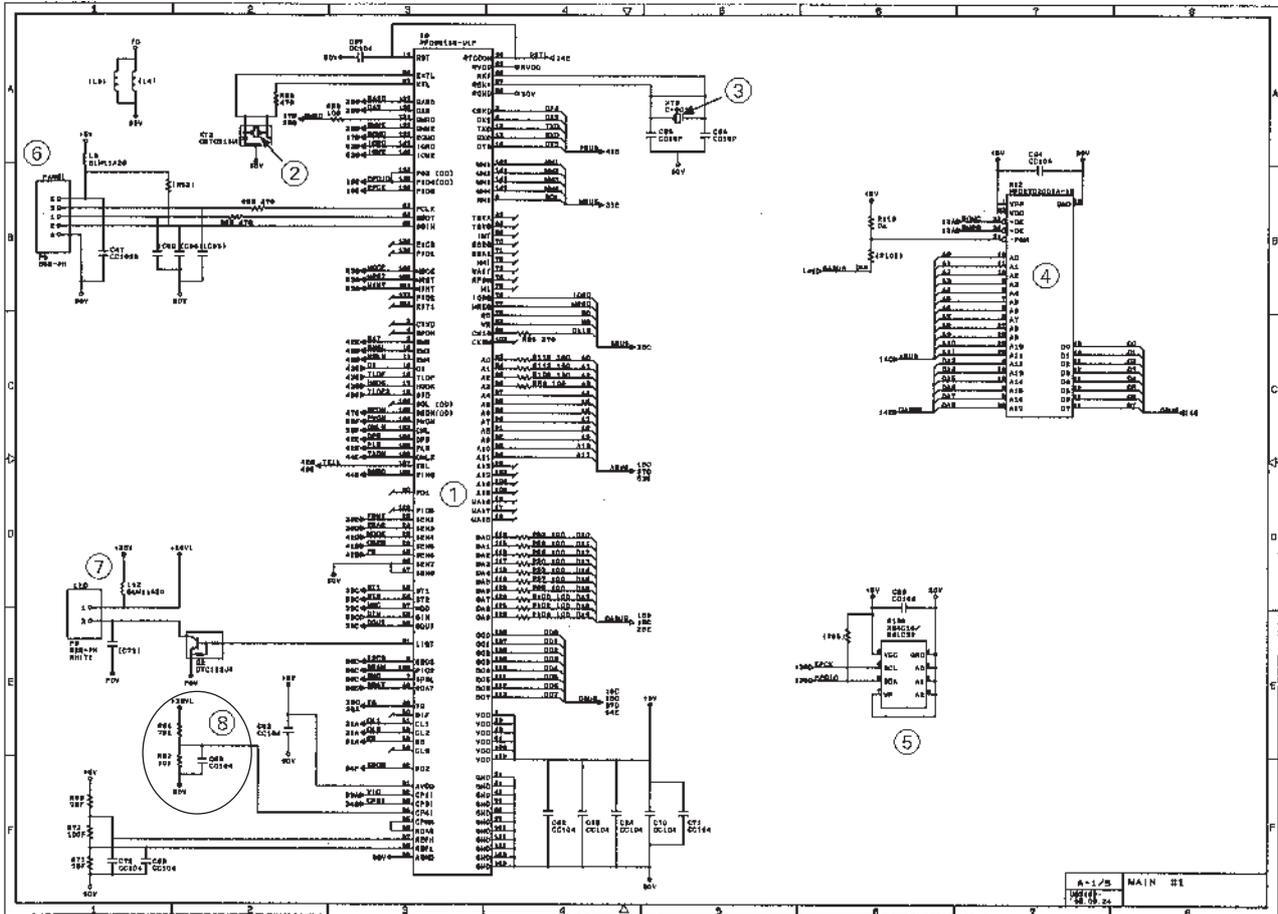


Main PCB Circuit Diagram 4/4

- ① Analog front end IC  
Processes the analog I/O signals from/to the MODEM.
- ② Main-NCU connector
- ③ Analog signal selectors
  - ③-1: Selects either RL1 or RL2 signals inputted from the communications network.
  - ③-2: Selects either input signals from the handset or those from the MODEM.
  - ③-3: Selects either sound signals (e.g. alarm beeps, key clicks and ringer sounds) generated by the FAX engine or signals selected by ③-1.
- ④ Amplifier circuit for signals outputted from the MODEM
- ⑤ Amplifier & shaper circuit for signals inputted from the communications network
- ⑥ Speaker amplifier circuit  
Amplifies sounds issued from the above analog signal selector (③) and feeds them to the speaker.
- ⑦ Speaker connector

### 3.2.2 FAX725M/590DT/590MC/825MC/875MC

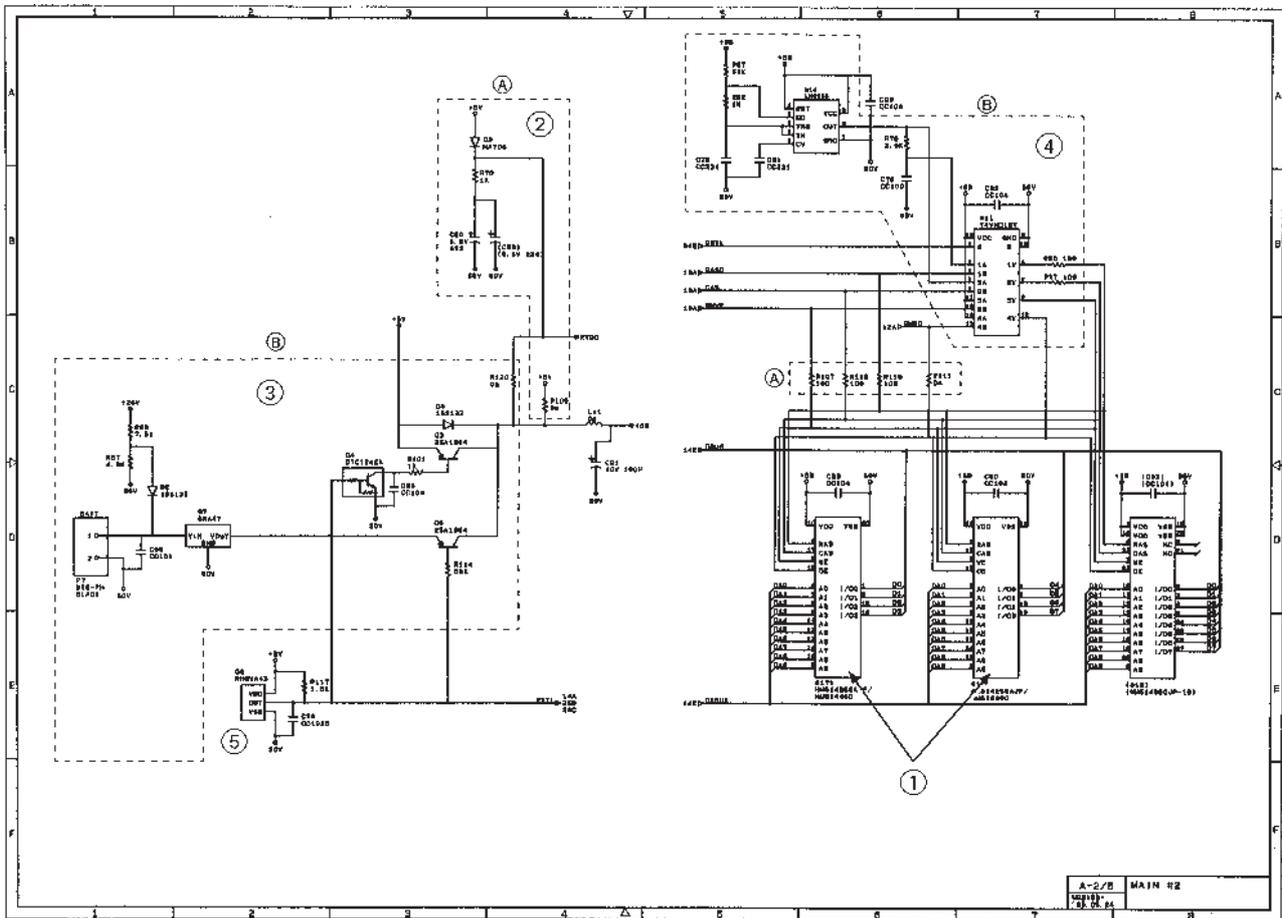
#### [ 1 ] Primary function group



Main PCB Circuit Diagram 1/5

- ① FAX engine (ASIC) which integrates a CPU and gate array.
- ② Clock for CPU
- ③ Clock for calendar clock
- ④ ROM (2-megabit. Note that the sample machines for demonstration have a 4-megabit ROM.)
- ⑤ E<sup>2</sup>PROM (16-kilobit in the FAX725M/590DT/590MC/825MC, 32-kilobit in the FAX875MC)
- ⑥ Control panel connector
- ⑦ LED array light intensity control circuit and connector
- ⑧ Recording head drive voltage detector

[ 2 ] DRAM group



Main PCB Circuit Diagram 2/5

- ① DRAMs  
 FAX725M: Two 256-kilobyte DRAMs  
 FAX590DT/590MC/825MC/875MC: Two 512-kilobyte DRAMs
- ② Calendar clock backup circuit (for the FAX725M)
- ③ DRAM backup circuit and nickel-hydrogen battery connector (for the FAX590DT/590MC/825MC/875MC)
- ④ DRAM refresh circuit (for the FAX590DT/590MC/825MC/875MC)
- ⑤ Reset IC