

SERVICE MANUAL

&

PARTS LIST

SCANNERII

12.1997

Table of Contents

* Service Manual

I. Main Configuration.....	2
II. Disassembling the SCANNER	5
III. Setting the Scanner Adjustment and Test Mode	7
IV. Diagnosing a Breakdown in the Electrical System	9

* Parts List.....	13
-------------------	----

■ GENERAL INFORMATION

This service manual has been compiled for explaining repair procedures of the SCANNER.

This was produced based on up-to-date product specifications at the time of issue, but there may have been changes of specifications for the purpose of improvements.

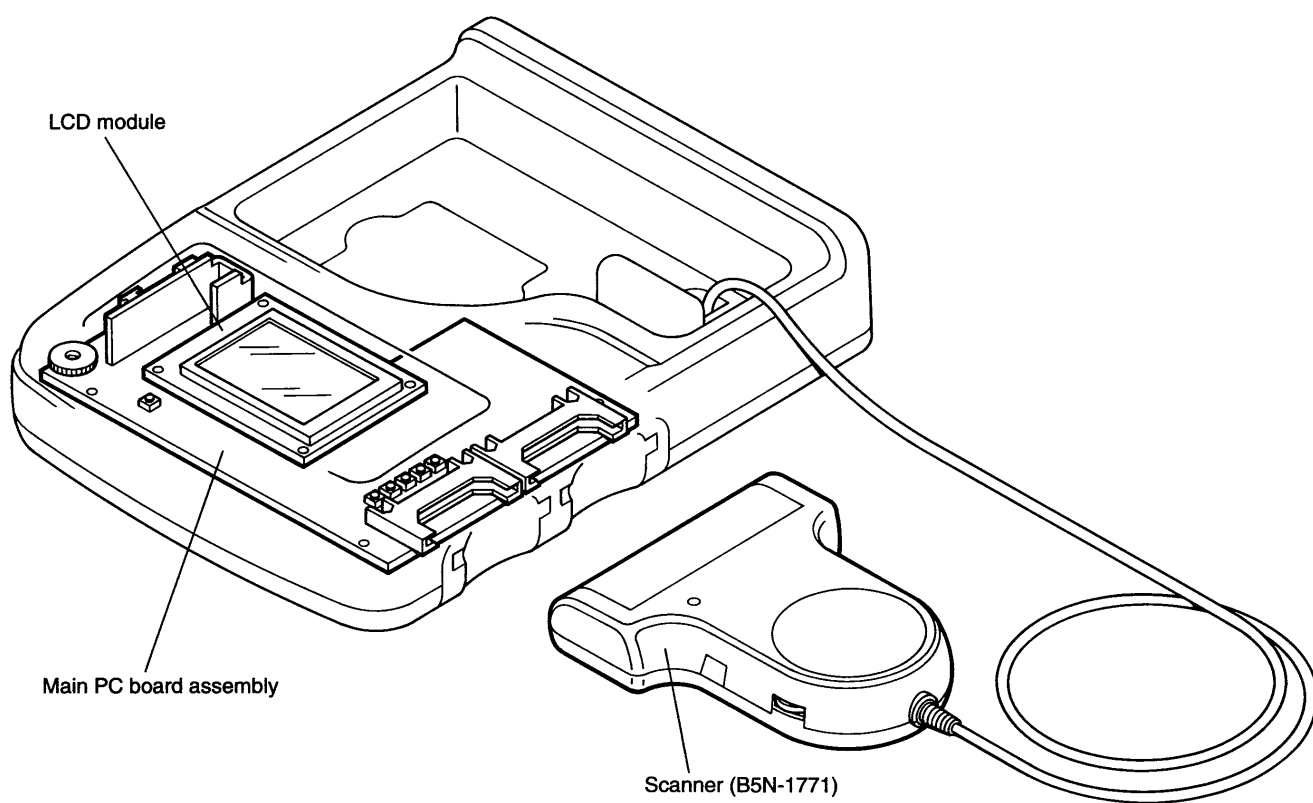
Contact manufacturer or local sales company for information concerning such changes.

● CAUTION ●

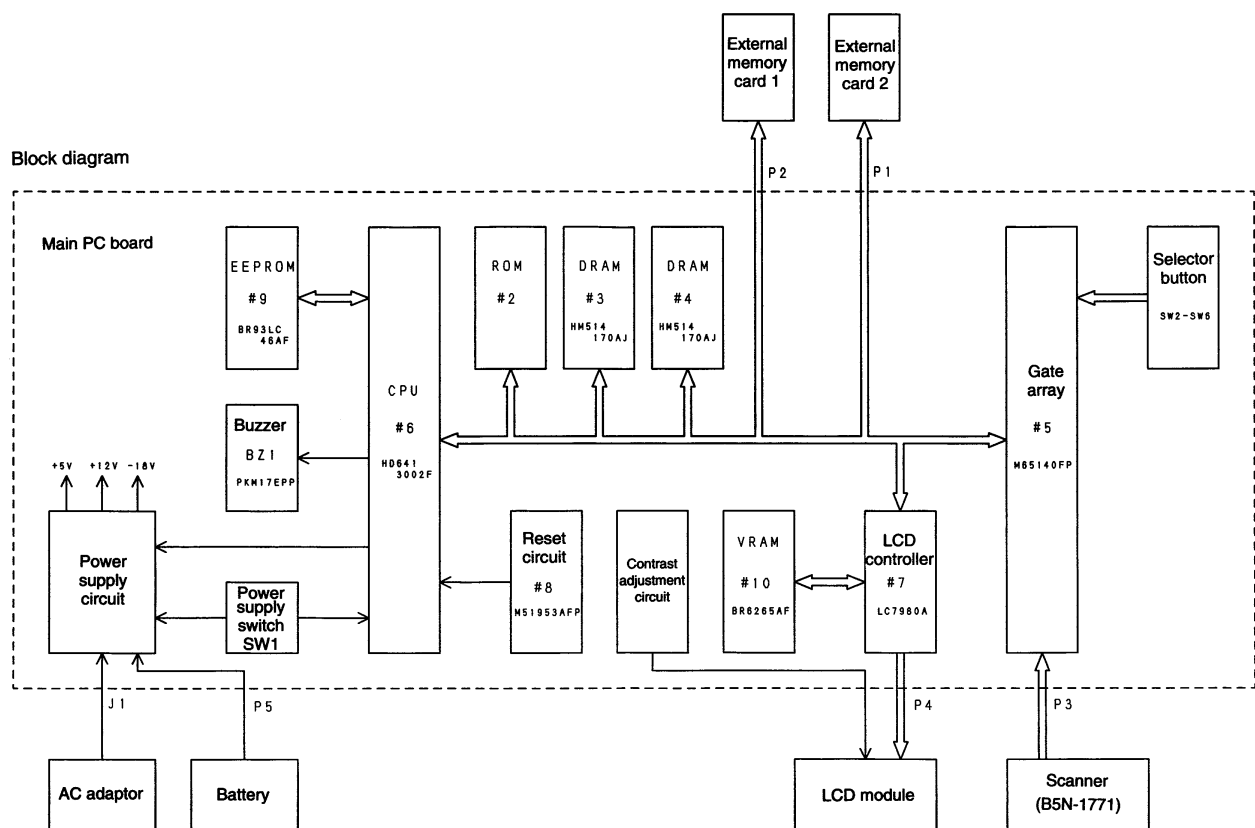
1. Always use rubber gloves when handling printed circuit boards and never touch the metal portion of a printed circuit board with bare hands.
2. Keep your body earthed in order to avoid generating static electricity.
3. Pack printed circuit boards in aluminum foil and avoid subjecting them to any form of impact during storage or transportation.
4. Do not touch or damage the metal portion of a printed circuit board with a screwdriver or any other tool while making repairs or the like.

I. Main Configuration

1. Main Components

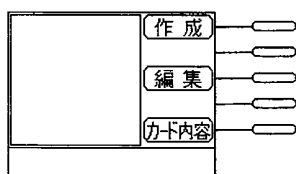


2. Control System Block Diagram



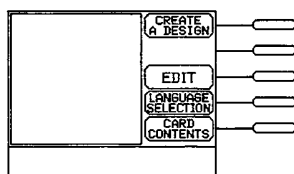
Selecting the language

①



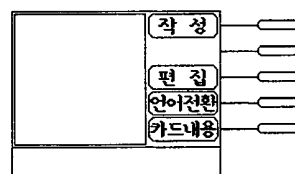
I

• JAPANESE



II

- ENGLISH
- DEUTSCH (GERMAN)
- FRANCAIS (FRENCH)
- ITALIANO (ITALIAN)
- NEDERLANDS (DUTCH)
- ESPANOL (SPANISH)
- DANSK (DANISH)
- NORSK (NORWEGIAN)
- SUOMEKSI (FINNISH)
- SUENSK (SWEDISH)
- 中国語 (CHINESE)



III

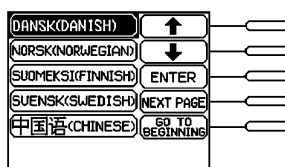
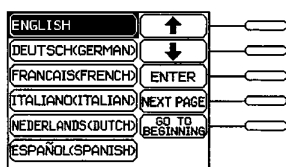
• 한국어 (KOREAN)

Turn off the unit, then enter the language mode by holding down the three middle buttons while turning on the unit.

The language mode screens change in the following order: I → II → III.

This mode ends if JAPANESE, ENGLISH or KOREAN is chosen.

②



When screen II of the language mode is displayed, select the language with and , then press .

* If is pressed, another screen showing more languages is displayed.

II. Disassembling the SCANNER

- ① Remove the scanner guide cover.
- ② Remove the cover from the battery compartment, and take out the six batteries. (Skip this step if there are no batteries in the compartment.)
- ③ Remove the four screws from the bottom of the compartment, lift up the main body of the scanner, and remove the two connectors.
- ④ Remove the four screws securing the main PC board assembly and take out the assembly.
- ⑤ Disconnect the scanner connector from the main PC board assembly.
- ⑥ Remove the cord guide from the main body of the scanner, and disconnect the scanner connector from the main body.
- ⑦ Remove the four screws that secure the LCD module to the main body of the scanner, and take off the LCD module.
- ⑧ Remove the four screws that secure the battery holder to the main body, and take off the battery holder.

Fig. 1 Connecting the LCD module leads to the main PC board assembly

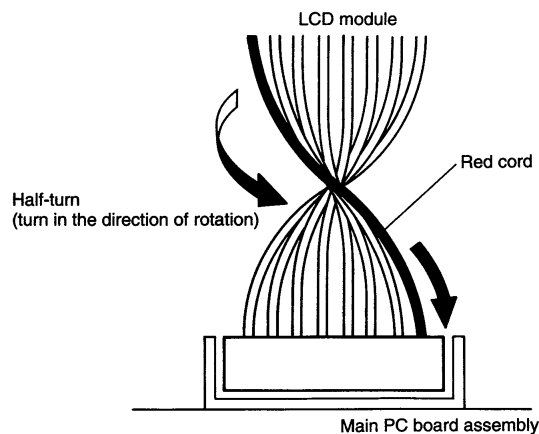
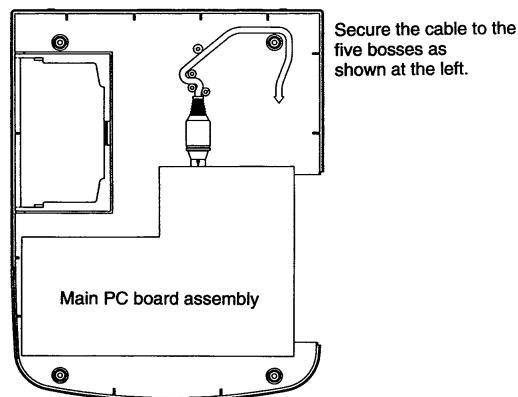
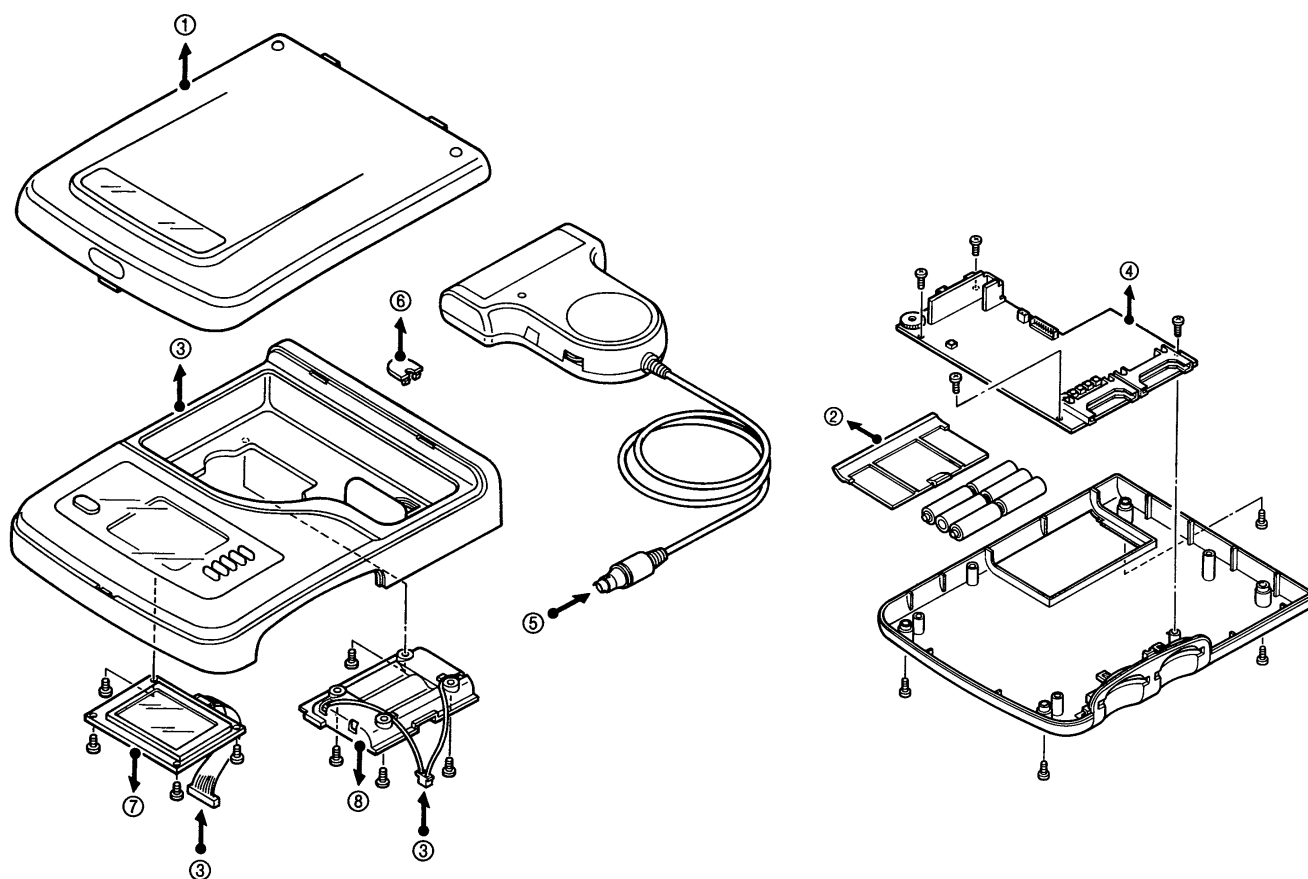


Fig. 2 Arranging the cables for the Scanner B5N-1771





III. Setting the Scanner Adjustment and Test Mode

- * With this equipment, because each scanner has its own individual characteristics and these are stored in the memory element in the main PC board assembly, scanner adjustment and testing should always be carried out if only the main PC board assembly is being replaced, or if the scanner (B5N-1771) is being replaced. In any other case, the adjustment has already been made at the factory before the unit is shipped, and does not need to be done again.

[Items Required for Adjustment]

Adjusting the scanner requires that the test picture be read. Copy the test picture found on page 8, and cut out the picture along the dotted lines.

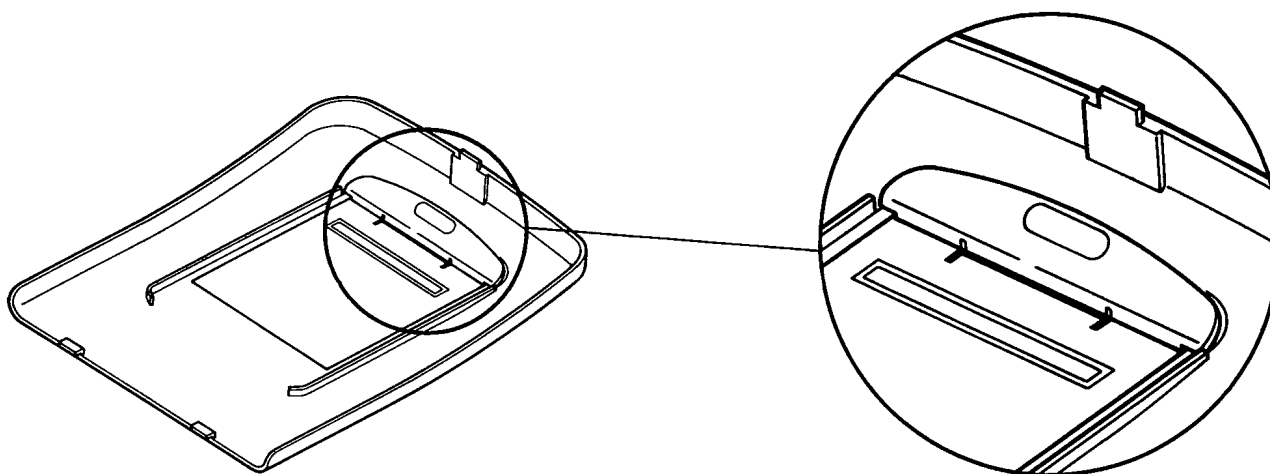
[Starting Up the Test Mode]

Pressing the main power switch while holding down the highest and lowest of the five operation switches puts the scanner in the Adjustment and Test Mode.

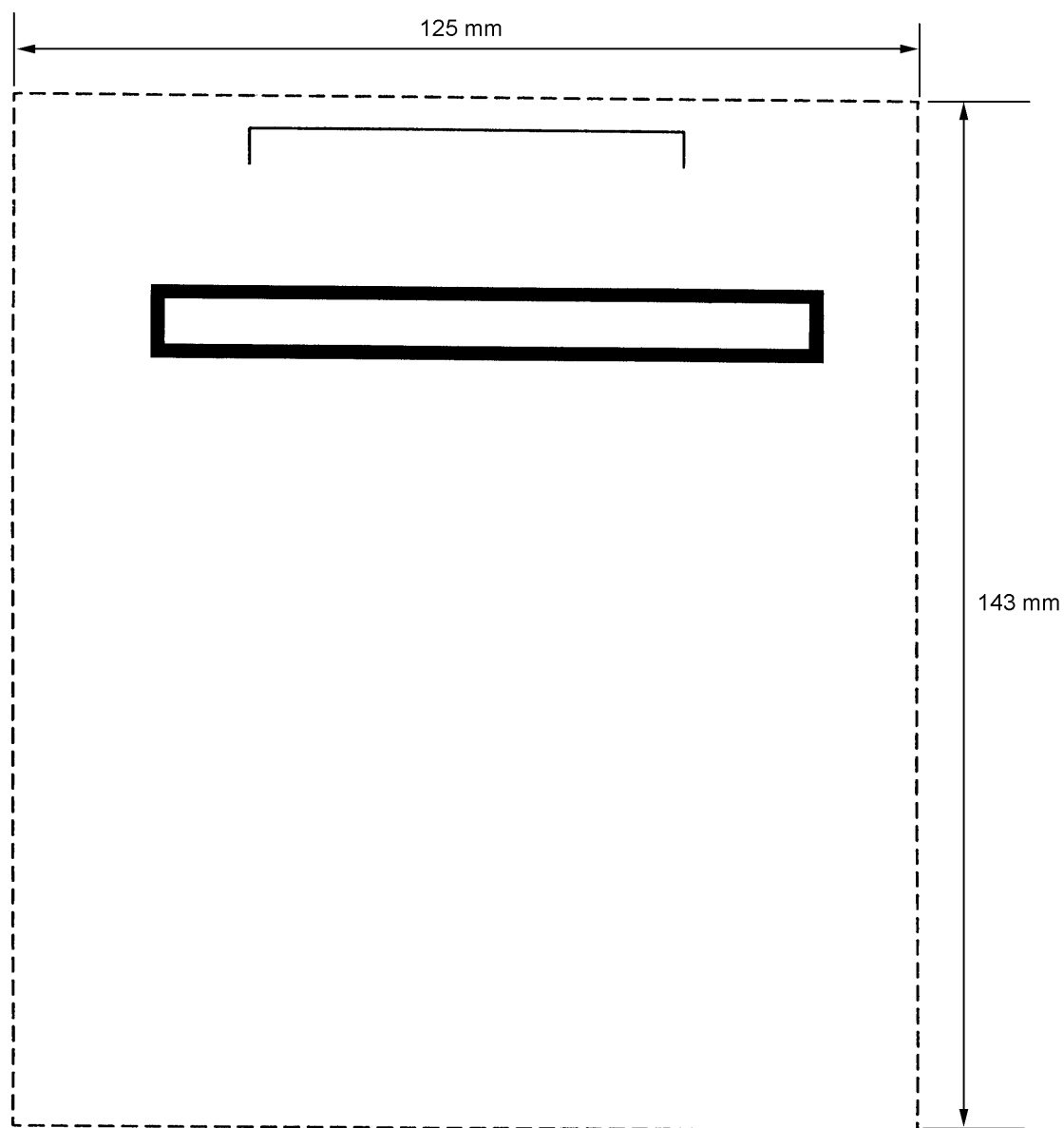
[Adjusting the Scanner]

- ① Set the test picture on the glass plate (see Fig. 1).
 - ② Press the **SCAN** button. (The buzzer will sound once.)
 - ③ Scan the test picture while holding down the scanner button.
 - ④ Press the **SCAN** button. (The buzzer will sound twice.)
 - ⑤ Scan the test picture once again while holding down the scanner button.
- * If there have been no internal problems with the adjustment at the point where step ⑤ is completed, the power supply will shut off automatically.
If a message reading "No original found" is displayed after step ③ or step ⑤, press the **CORRECT & REDO** button and repeat the procedure starting from step ②. If the above message appears, the test picture may not have been placed on the glass plate in the correct position.

Fig. 1



Test picture

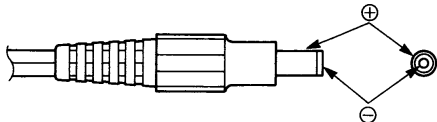


Copy the picture and cut along the dotted lines.
(The size should be W125 mm × H143 mm.)

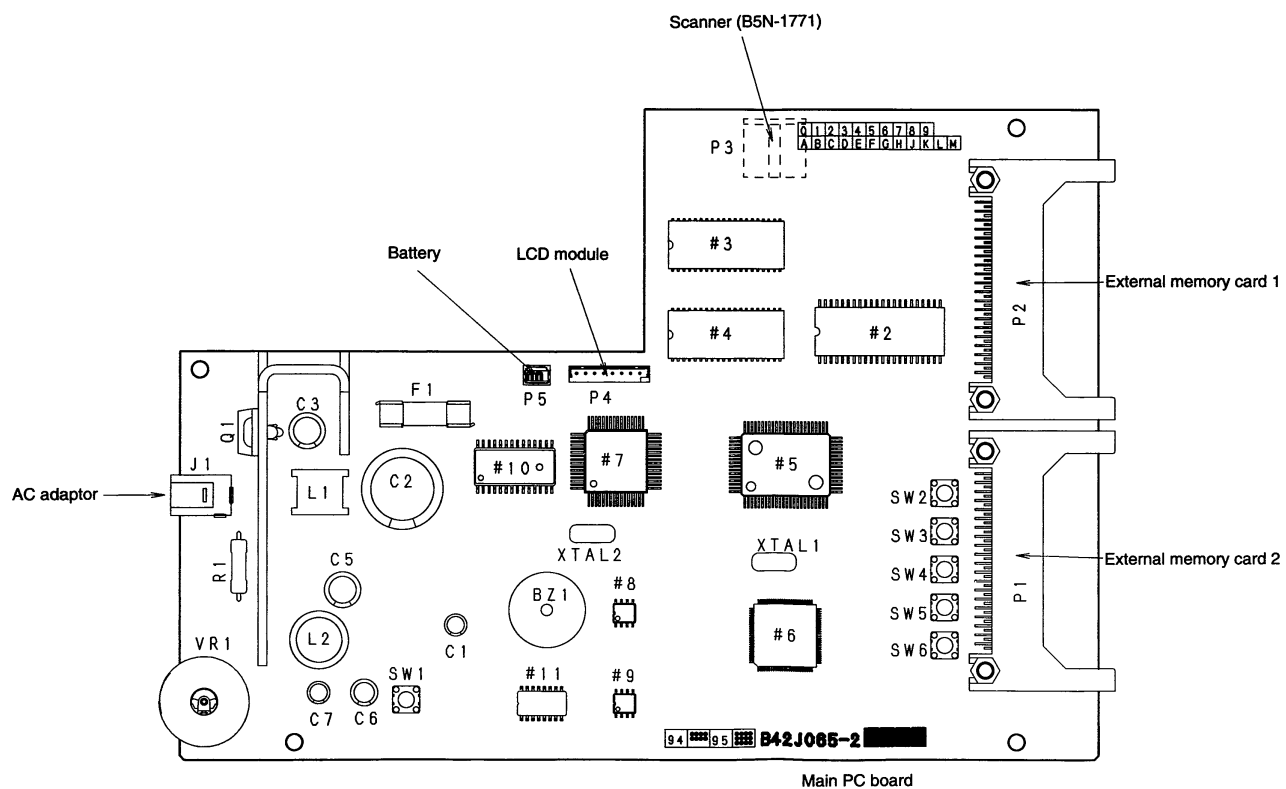
IV. Diagnosing a Breakdown in the Electrical System

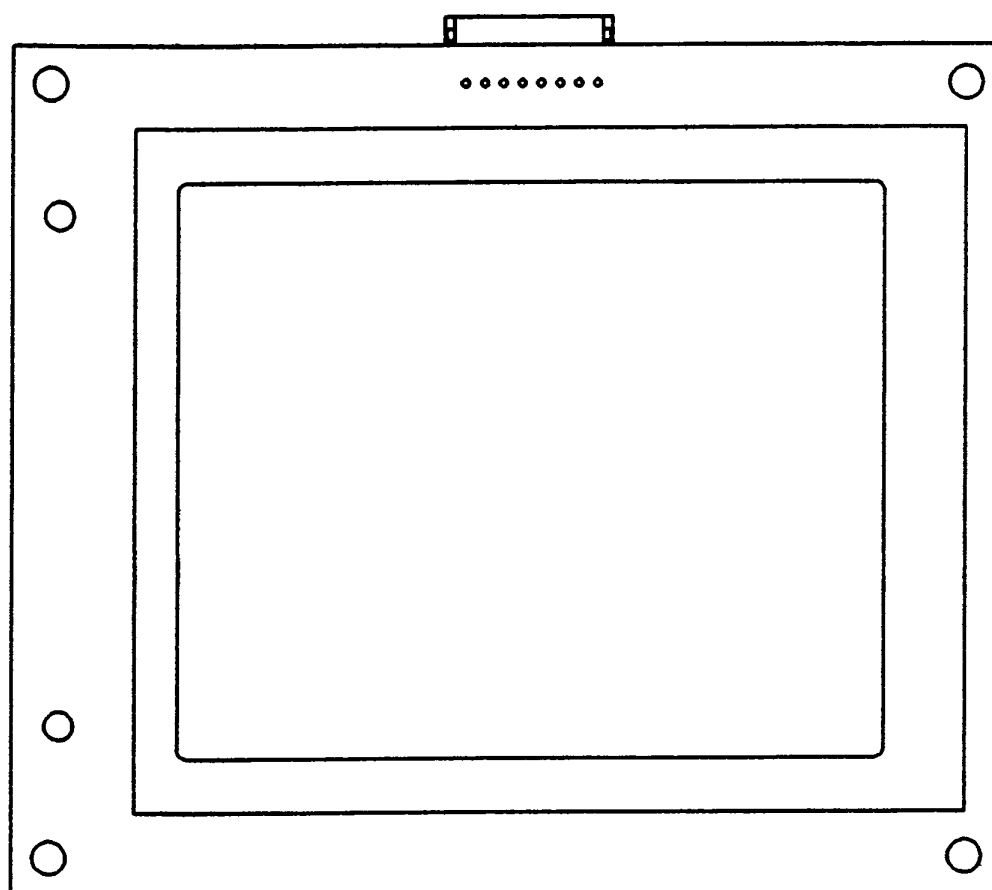
Diagnosing a breakdown in the electrical components

* See the illustration for locations which should be checked.

Situation	Locating the Problem	Solutions
① No buzzer sounds when the main power switch is pressed, and nothing appears on the LCD display.	① Have the batteries been inserted correctly? ② Has the fuse blown? ③ Are the battery holder and main PC board assembly connected, or has the wiring to the main PC board assembly been disconnected? ④ If the AC adaptor has been plugged into a wall outlet, is the DC plug output between 9.5 and 14 VDC (if an AC adaptor is being used)?  ⑤ Other Points to Check	① Check carefully. ② Replace the fuse. (First check to see why the fuse has blown, and correct the problem.) ③ Replace the terminal plate assembly. ④ Replace the AC adaptor. ⑤ Replace the main PC board assembly.
② The LCD display does not function correctly.	① Has the LCD contrast adjustment knob been adjusted? ② Have the LCD module and the main PC board assembly been connected, or are there any disconnected lead assemblies? ③ When the LCD module connector (P5) is disconnected from the main PC board assembly, is the voltage between 1 and 2, and between 3 and 2, correct? Between 1 and 2: -8 to -20 VDC Between 3 and 2: 5 VDC ④ Check other points carefully.	① Check carefully. ② Replace the lead assembly. ③ Replace the main PC board assembly. ④ Replace the main PC board assembly or the LCD module.

Situation	Locating the Problem	Solutions
③ The keys do not work.	① Have the selector button and main power switch been installed correctly? ② Check other points carefully.	① Install the switch correctly. ② Replace the main PC board assembly.
④ The scanner does not read the image correctly.	① Has the scanner been adjusted correctly? ② Check other points carefully.	① Adjust the scanner. (See page 7 for information on scanner adjustment.) ② Replace the main PC board assembly or the Scanner B5N-1771.
⑤ Data cannot be stored on the original card.	① Can the data be stored properly if a different original card assembly is used? ② Check other points carefully.	① Replace the main PC board assembly. ② Replace the original card assembly.





LCD module

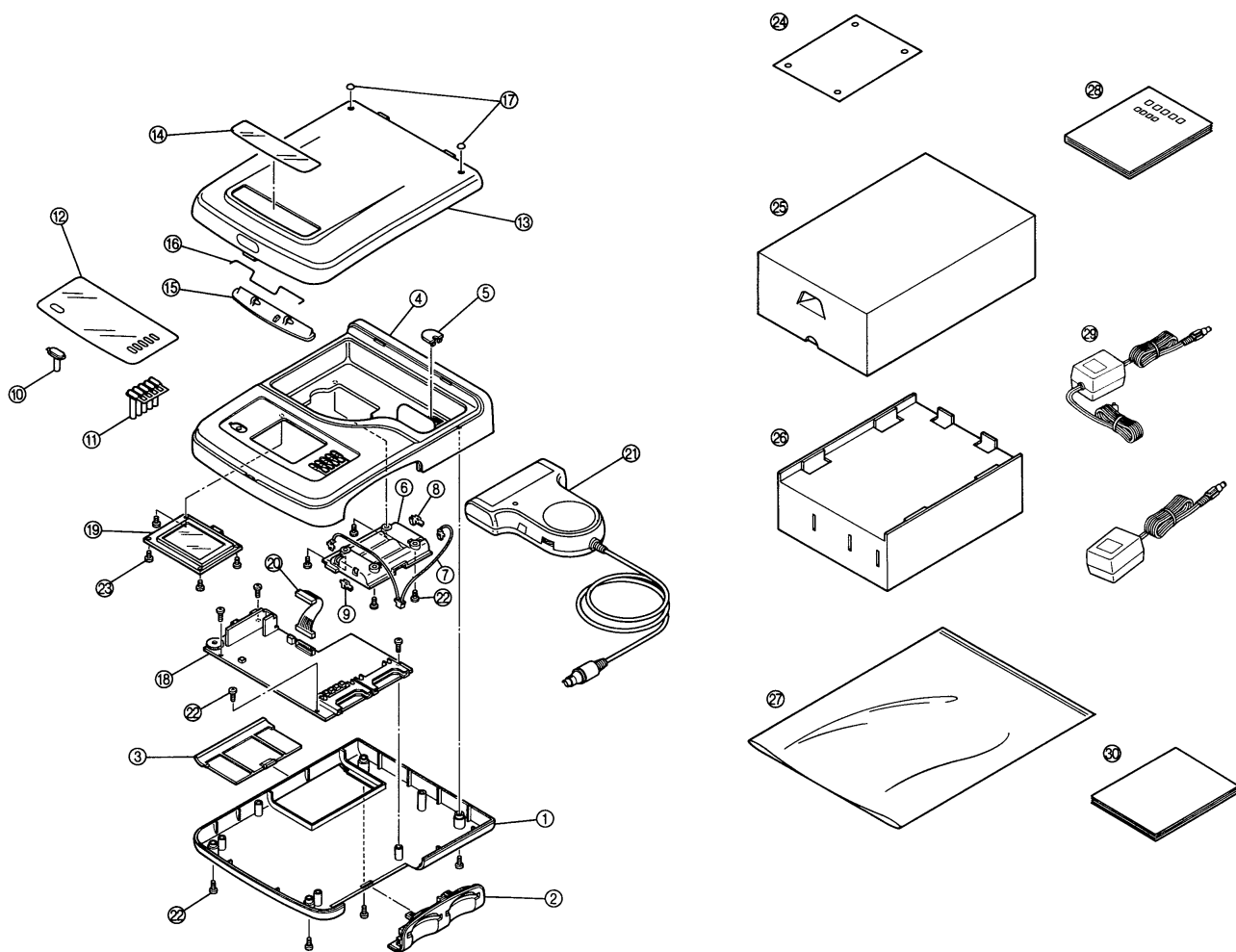
* **Parts List**

Main body

1.	X59834001	Base cover
2.	X59835002	Card guide
3.	X59836001	Battery cover
4.	X59837007	Main body (Europe)
	X59837008	Main body (U.S.A., Canada)
	X59837001	Main body (BabyLock)
5.	X59838001	Cord guide
6.	X59839001	Battery holder
7.	X59840001	Terminal plate assembly
8.	X59844001	Terminal plate A
9.	X59845001	Terminal plate B
10.	X59846002	Main power switch
	X59846001	Main power switch (BabyLock)
11.	X59847002	Selection button
	X59847003	Selection button (BabyLock)
12.	XA0152001	Indication
	XA0292001	Indication (BabyLock)
13.	X59849001	Scanner guide cover (Europe) (BabyLock)
	X59849002	Scanner guide cover (U.S.A) (Canada)
14.	XA3903001	Guide cover panel
	XA0293001	Guide cover panel (BabyLock)
15.	X59851001	Holder
16.	X59852001	Spring
17.	X59853000	Rubber cushion
18.	XA3901001	Main PC board assembly
19.	XA0112001	LCD module
20.	X56286001	Lead wire assembly
21.	XA0113001	Scanner B5N-1771
22.	085300815	Screw
23.	138433001	Screw

Accessories/Packing

24.	XA0051001	Original sheet
25.	X61051001	Carton
	X61052001	Carton (BabyLock)
26.	X60645000	PAD D
27.	UB7361000	Vinyl bag 350 × 450
28.	191902111	Instruction manual (English)
	191902112	Instruction manual (German)
	191902113	Instruction manual (French)
	191902114	Instruction manual (Dutch)
	191902115	Instruction manual (Spanish)
	191902119	Instruction manual (BabyLock, English, Spanish)
	191902117	Instruction manual (BabyLock, French)
29.	XA2988001	AC adaptor (120V)
	XA0315001	AC adaptor (220V)
30.	X80474001	Drawing paper (32 sheets)



122-902
H6120073