



NIHON KOHDEN

OPERATOR'S MANUAL

Electrocardiograph

ECG-6851 Series

Model

ECG-6851J

ECG-6851K

ECG-6851P

ECG-6851F

NK CODE 2076-200613-D

OM.ECG6851.04

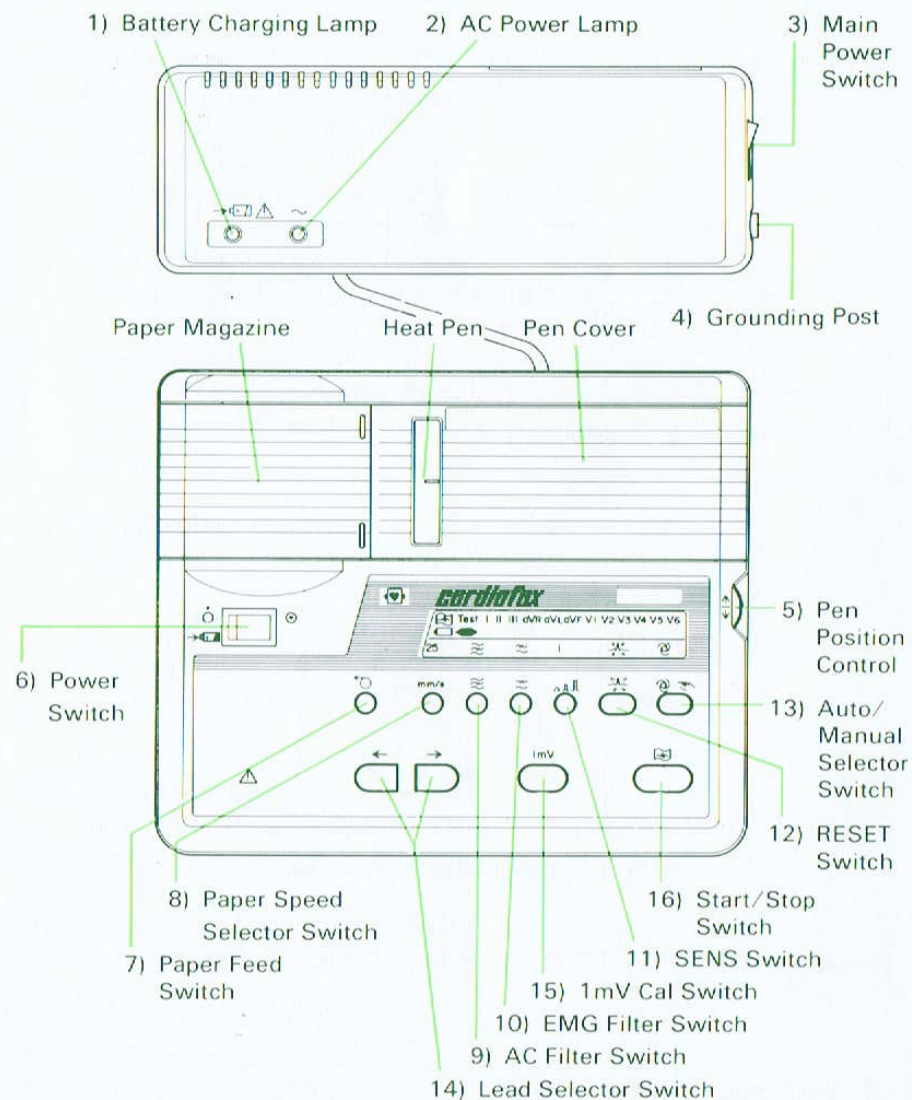
1. INTRODUCTION

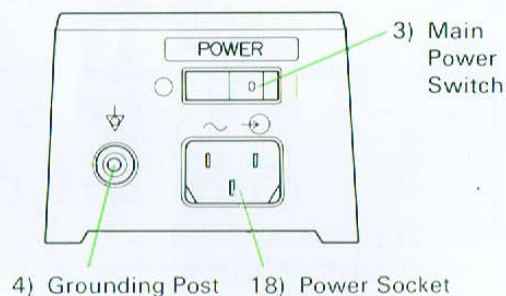
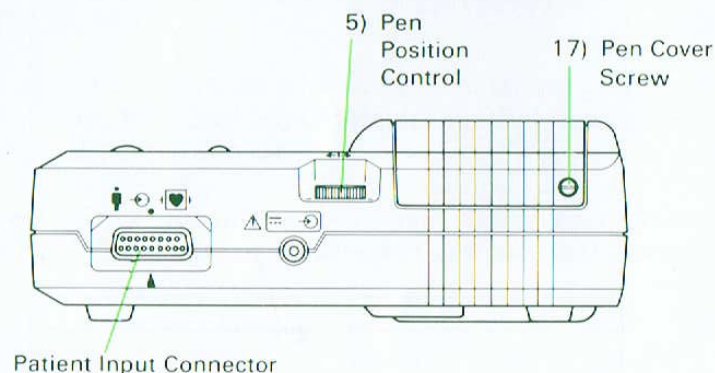
The electrocardiograph CARDIOFAX ECG-6851 can be used for diagnosis on various occasions, whether in patient wards or when making house calls.

The first part of this manual explains the minimum operation necessary to use the electrocardiograph. Further applications will be described in the latter part.

It is requested that customers go through this manual before using the electrocardiograph, and keep this manual for later use.

2.1 EXPLANATION OF PANEL AND CONTROLS





1) Battery Charging Lamp

Blinks while charging. The lamp changes from blinking to constant when battery is charged.

2) AC Power Lamp

Lights during AC operation or charging.

3) Main Power Switch

Turn on for AC operation and charging.

4) Grounding Post

Connects the supplied grounding wire. When AC interference occurs, check and connect grounding wire to appropriate ground.

5) Pen Position Control

Adjusts Heat Pen position.

6) Power Switch

ON  OFF  BATTERY CHARGING 

7) Paper Feed Switch

Depress to feed paper at 25 mm/s. Operative in STOP. (Base-line is recorded due to thermal pen operation.)

8) Paper Speed Selector Switch

Depress once to select paper speed of 50 mm/s; depress again to select 25 mm/s.

9) AC filter Switch

Depress once to turn filter on; depress again to turn filter off. (ON/OFF of the filter at power on is preselectable with bit SW 6)

10) EMG filter Switch

Depress once to turn filter on; depress again to turn filter off.

11) SENS Switch

Controls ECG sensitivity. Selection range: $\times \frac{1}{2} \rightarrow \times 2 \rightarrow \times 1 \rightarrow \times \frac{1}{2}$.

12) RESET Switch

Depress once to apply INST; depress again to release. Inoperative during Auto Cal and Auto Position operation. In auto mode, depress to stop paper feed.

13) Auto/Manual Selector Switch

Depress once to select Auto recording; depress again to select Manual recording.

During Auto recording; depress once to select Lead Hold; depress again to select the succeeding lead.

Operative in Stop and Auto recording.

14) Lead Selector Switch

By pressing the " $\leftarrow$ " switch, the lead to the immediate left is selected, and by pressing the " $\rightarrow$ " switch, to one to right is selected.

Keep pressed to perform automatic lead switching; the lead switches automatically every 0.2 seconds. Depress both $\leftarrow$ and $\rightarrow$ to set for Test. Operative in Stop and Manual recording.

15) 1mV Cal Switch

Depress to apply the 1mV calibration waveform. Inoperative during Auto Cal and Auto Position Operation.

16) Start/Stop Switch

Depress once to start; depress again to stop. In auto mode, depress to release INST operation; when START/STOP switch is depressed while in TEST position, lead position is automatically changed to lead I.

17) Pen Cover Screw

Unscrew to adjust heat pen temperature, damping or sensitivity, or to replace pen.

18) Power Socket

Connects the power cord and supplies AC source.

[Note on Grounding]

Connect the female end of the 3-prong power cord provided with the instrument to the power socket on the right side panel of the instrument, and connect the plug to a convenient AC wall outlet where the third contact is properly grounded.

When a 3-contact outlet is not available, be sure to ground the instrument prior to connecting the power cord using the ground lead provided.

CAUTION

Discharging a defibrillator or detachment of electrode during recording of ECG from among the 12 leads will overload the input circuit and thus disable recording of ECG. *In this case a  mark identical to that indicating the lead being selected on the LCD screen will appear blinking underneath the Test on the same screen. Check and rectify the conditions of the input and press the RESET switch to resume recording of ECG.

*NOT applicable when test lead is selected.

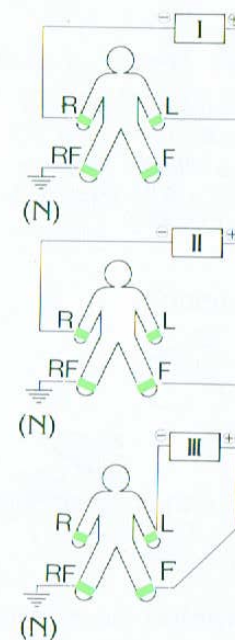
AHA requirements

Location	Color	Symbol in Standard Lead
Right Arm	White	RA
Left Arm	Black	LA
Right Leg	Green	RL
Left Leg	Red	LL
Chest V1	Brown/White	V1
Chest V2	Brown/White	V2
Chest V3	Brown/White	V3
Chest V4	Brown/White	V4
Chest V5	Brown/White	V5
Chest V6	Brown/White	V6

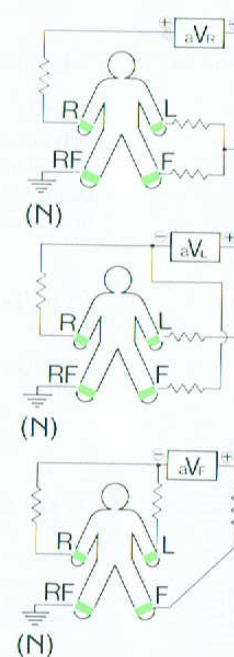
Lead Connection

The following shows the derivation of the 12-lead ECG recording.

STANDARD LIMB LEADS



UNIPOLAR LIMB LEADS



UNIPOLAR CHEST LEADS

