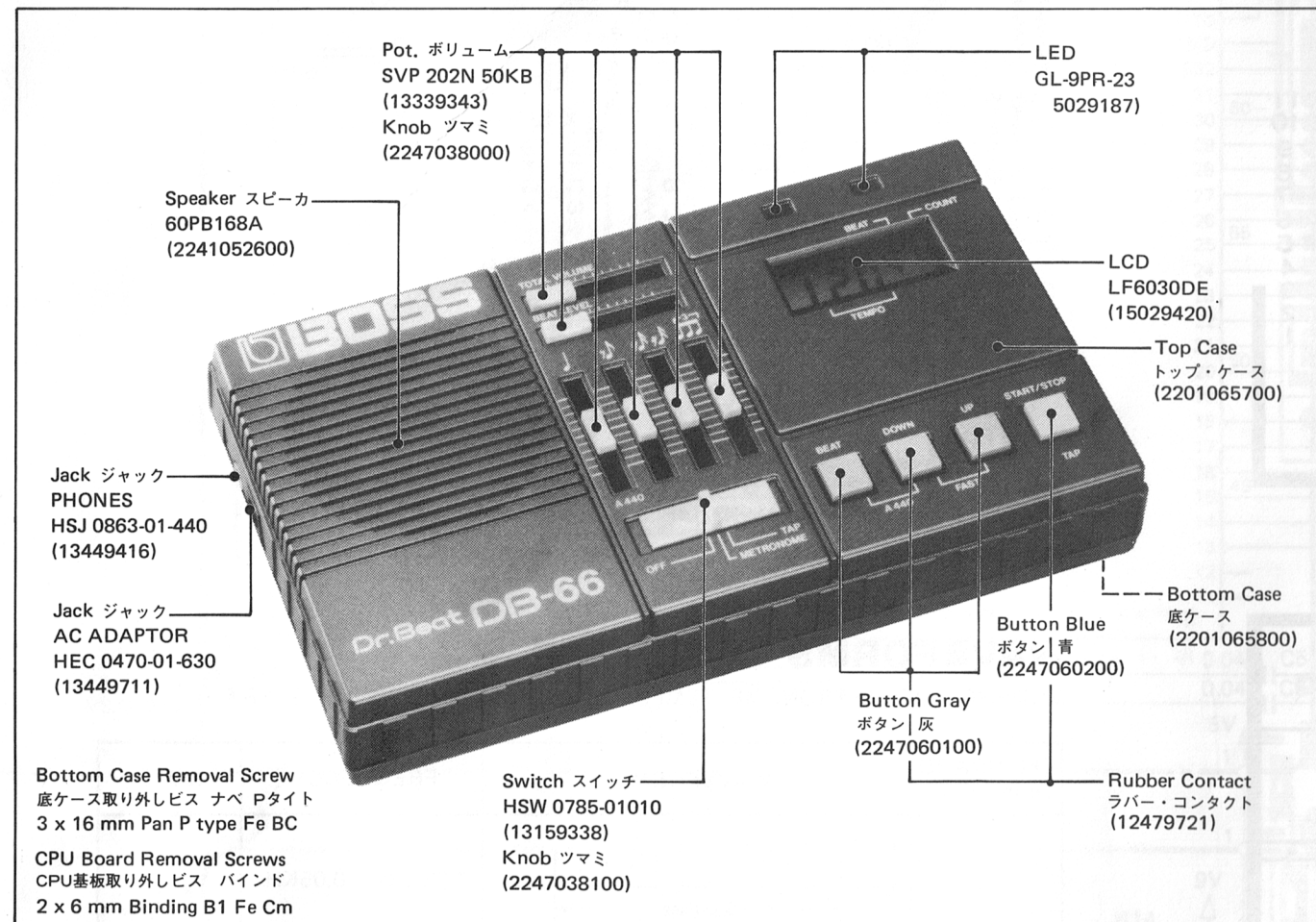


# BOSS DB-66 SERVICE NOTES

First Edition

## SPECIFICATIONS

Power	: 9V DC (battery or AC adaptor)
Current Draw	: 9mA @ 9V, idling
Tempo Range	: M.M. 35 to 250
Tempo Accuracy	: ± 0.15%
Standard Pitch	: 440Hz ± 0.2 cents
Dimensions	: 170 (W) x 96(D) x 33(H) mm 6-11/16(W) x 3-3/4(D) x 1-5/16(H) in.
Weight	: 320 g/11 oz.



## PARTS LIST

### CASE ケース

2201065700	Top Case	トップ・ケース
2201065800	Bottom Case	底ケース
2202070000	Battery Cover	電池カバー

### BUTTON, KNOB ボタン, ツマミ

2247060100	Button A Gray	ボタン 灰	BEAT, DOWN, UP
2247060200	Button B Blue	ボタン 青	START/STOP
2247038100	Knob	ツマミ	Mode switch
2247038000	Knob	ツマミ	Pot.

### LCD

15029420	LF6030DE	LCD
2226022800	LCD Cushion	クッション
2202083200	LF-0H06	偏光板 Polarizer
2216031900	LCD Spacer	スペーサ
13439279	LF-0Z02	ラバー・コネクタ Rubber Connector

### SPEAKER スピーカ

2241052600	60PB168A	直径 60mm dia.
2226035500	Cushion	クッション

### PCB ASSEMBLY 基板完成品

7313751000	VR BOARD	(pcb 2292010700)
7313752000	CPU BOARD	(pcb 2292010800)

### JACK ジャック

13449416	HSJ 0863-01-440	PHONES
13449711	HEC 0470-01-630	AC ADAPTOR

### SWITCH スイッチ

13159338	HSW 0785-01-010	Mode
12479721	Rubber Contact	ラバー・コンタクト

### POTENTIOMETER ボリューム

13339343	SVP202N 50KB
2224013500	Mask マスク

### IC

15199518	TA7336P	OP amp
15179206	HD44790B25	CPU
15219126	LC7900	Generator/Divider

### TRANSISTOR トランジスタ

15129114	2SC1815-GR
----------	------------

### DIODE ダイオード

15019526	RD5.6EB3 (or 15019525 RD5.6EB2)	ツェナー zener
15019519	RD4.7EB2 (or ..... RD4.7EB1)	ツェナー zener
15019209T0	S5500G	
15019125	1SS133	
15029187	GL-9PR-23	LED

### CRYSTAL 発振子

12389739	4.224MHz
----------	----------

### OTHERS その他

2343015800	Flat Cable 11P	フラット・ケーブル
2341041400	Battery Snap	電池スナップ 1007#24
2226035600	Battery Cushion	電池クッション
2215020200	Polycapipe A	ポリカパイプ 3.45(IN) x 12.6(L) x 2.55(T)mm
2215020300	Polycapipe B	ポリカパイプ 6(IN) x 13.8(L) x 2(T)mm
2201070800	Soft Case	ソフトケース

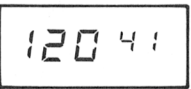




## CHECKING

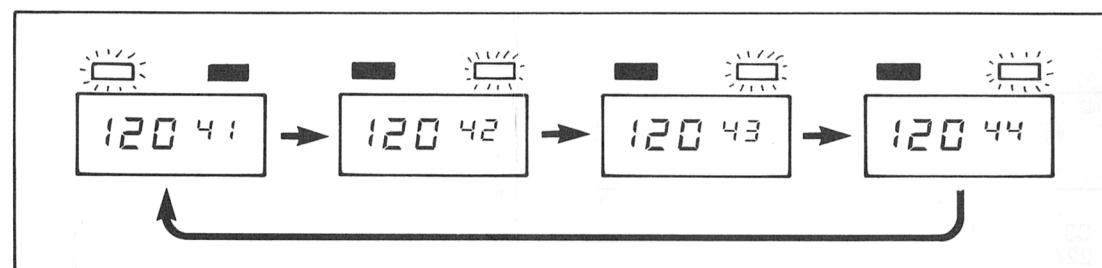
Use BOSS AC Adaptor, PSA-100 for stabilized power supply.

### STANDBY MODE

When MODE SELECTOR is in METRONOME and LCD is displaying , the unit is in the standby mode. To enter this mode, simply slide MODE SELECTOR knob to OFF, then to METRONOME.

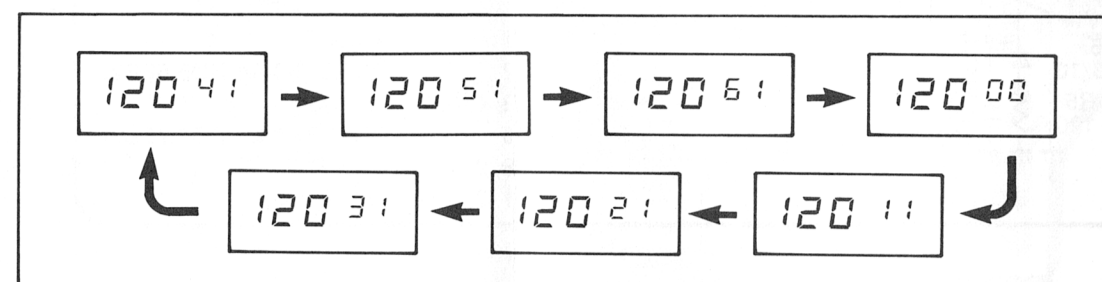
### 2. METRONOME START/STOP

2-1. Set the unit to standby mode.



### 3. BEAT INCREMENT

3-1. Set the unit to standby mode.

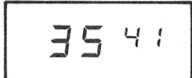


### 4. TEMPO DOWN

4-1. Set the unit to standby mode.

4-2. Hold DOWN button. The TEMPO should gradually decrease.

4-3. While holding DOWN button, depress UP button. The TEMPO down should become faster.

The lowest LCD counting will be 

### 1. STANDARD PITCH

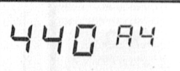
1-1. Set the DB-66 to standby mode.

1-2. Set panel controls.

TOTAL VOLUME: Center

 VOLUME : Center

1-3. Depress BEAT and DOWN buttons simultaneously.

An A4 of 440Hz should be heard and should appear on the LCD. 

1-4. Verify the frequency with frequency counter; tolerance  $\pm 0.01\%$ .

1-5. Depress BEAT button; the unit should return back to the standby mode.

2-2. Depress START/STOP button. LCD and LEDs (flash) should repeat the following display.

### 6. TAP

6-1. Set the unit to standby and then to TAP modes.


6-2. Set controls.

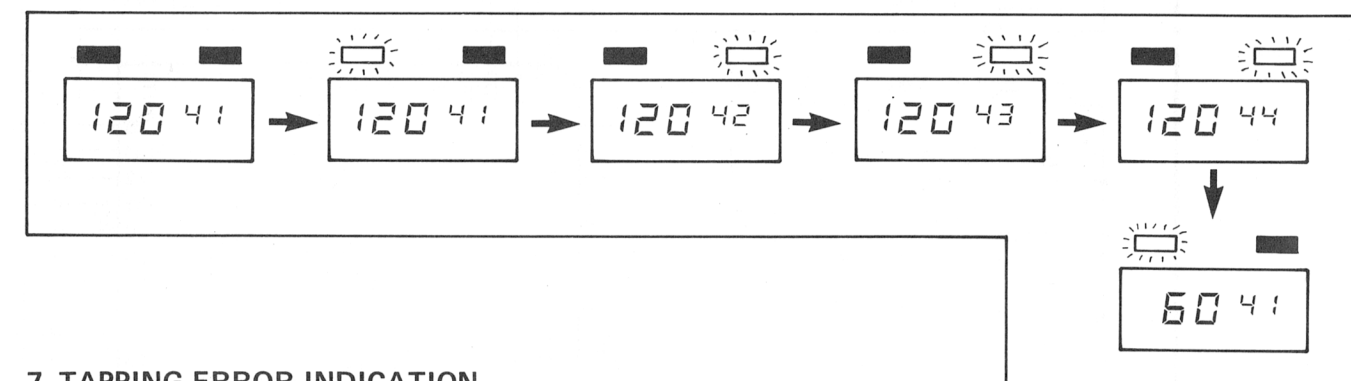
TOTAL VOLUME: Center

 VOLUME: Center

6-3. Depress TAP button 5 times; approximately 1 second intervals.

A quarter note should sound at every tapping; LCD and LEDs will light as illustrated below. The intervals between tapings are being converted into

TEMPO value. LCD will indicate  upon the fifth tap.

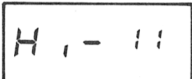


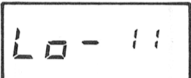
### 7. TAPPING ERROR INDICATION

7-1. Set the unit to TAP mode.

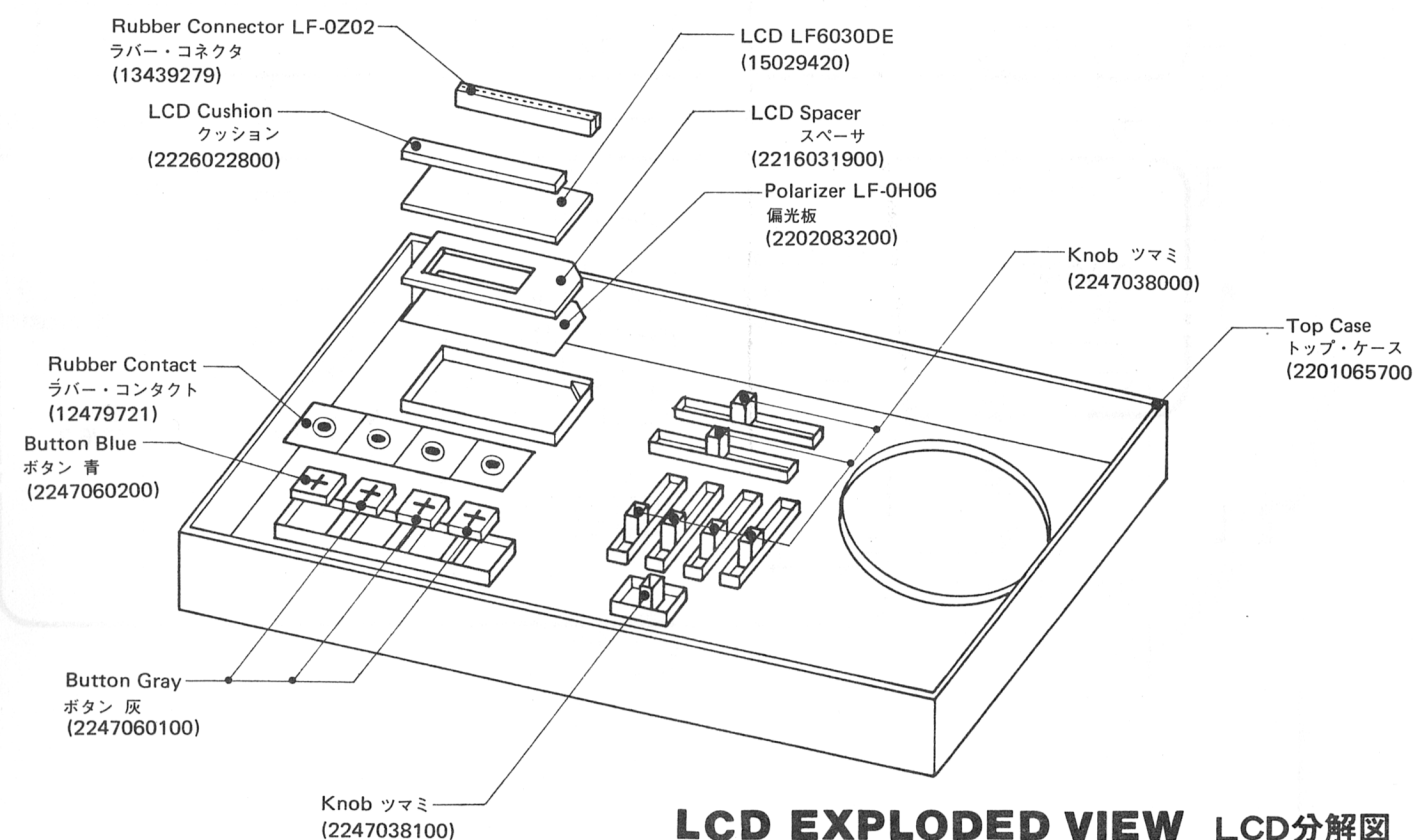
7-2. Display BEAT 1 on the LCD by tapping BEAT button.

7-3. The relation between tapping intervals and LCD readings is as follows.

\* Depressing TAP button in a shorter intervals than 0.2 seconds will have 

\* Depressing TAP button at an interval of 1.8 to 2.0 seconds will have 

\* Depressing slower than 2 second intervals will have unchanged display. This is because the tempo sensor circuit ignores such a sluggish operation, and the previous tempo setting is preserved.



LCD EXPLODED VIEW LCD分解図