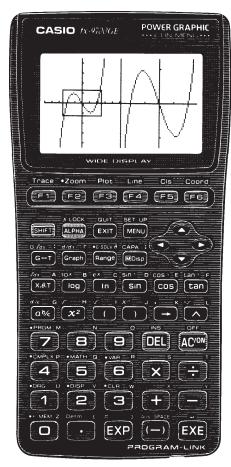
SERVICE MANUAL & PARTS LIST (without price)

FX-9700GE (LX-370)

MAR. 1994



FX-9700 GE

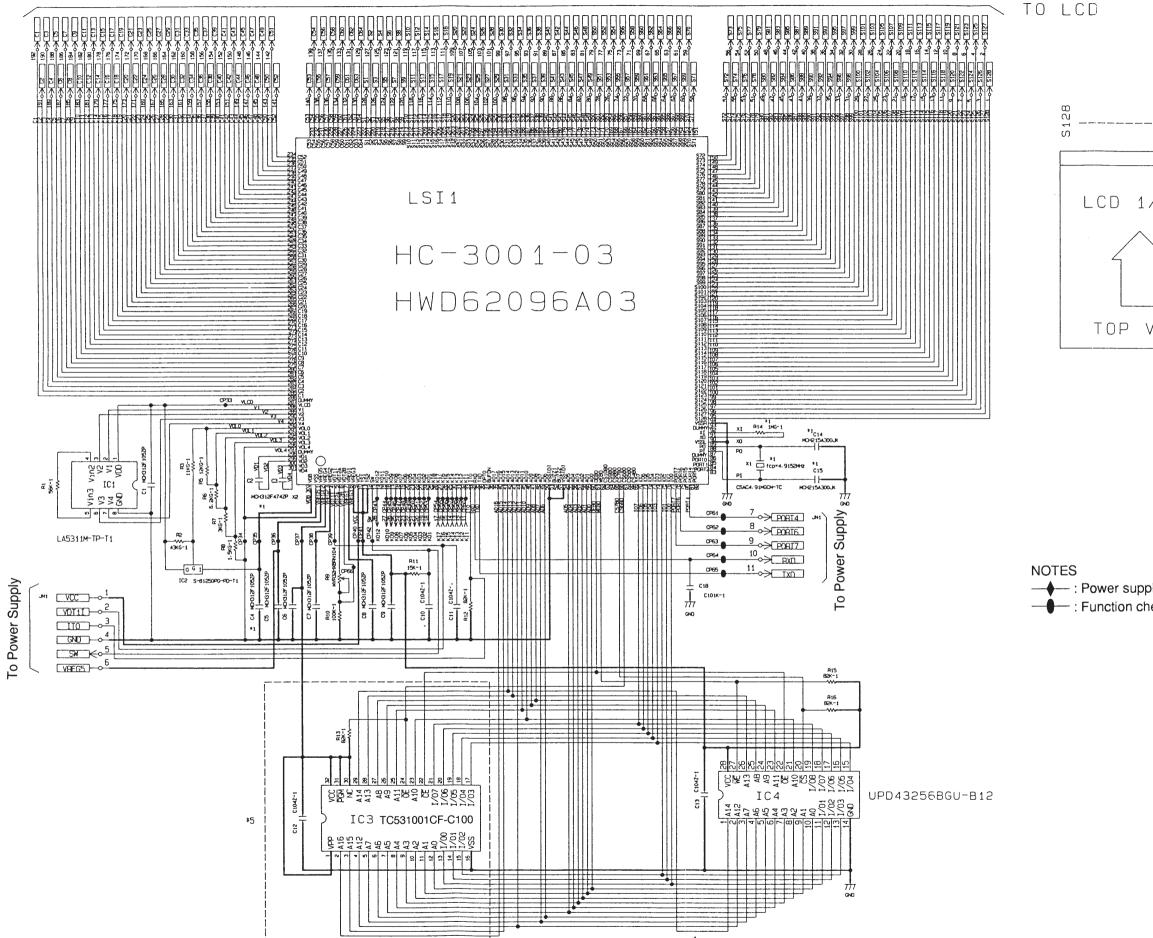


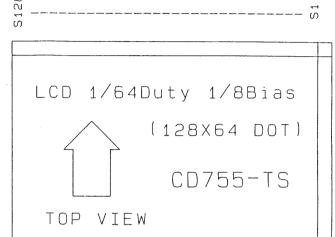
CONTENTS

1.	SCHEMATIC DIAGRAM	
	1-1. Main PCB	1
	1-2. Power Supply	2
2.	SPECIFICATIONS	3
3.	OPERATION CHECK	4
4.	DATA TRANSFER CHECK	8
5.		
	5-1. Connecting Two fx-9700GE Units	9
	5-2. Before Starting Data Communications	9
	5-3. Setting Communications Parameters	10
	5-4. Using ALL, Range, and Factor	11
	5-5. Data Communications Precautions	13
6.	TROUBLESHOOTING	14
7.	DISASSEMBLY VIEW	15
Ω	PARTSLIST	20

1. SCHEMATIC DIAGRAM

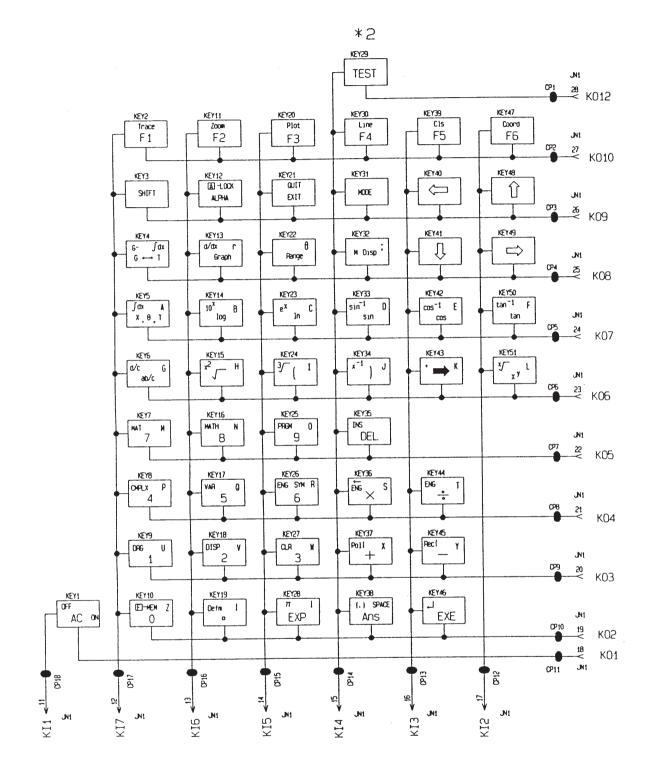
1-1. Main PCB

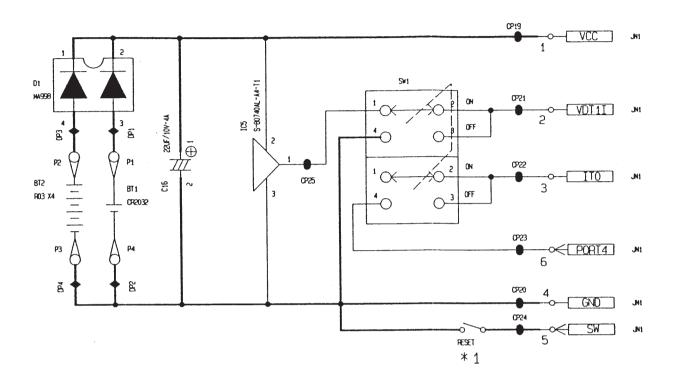


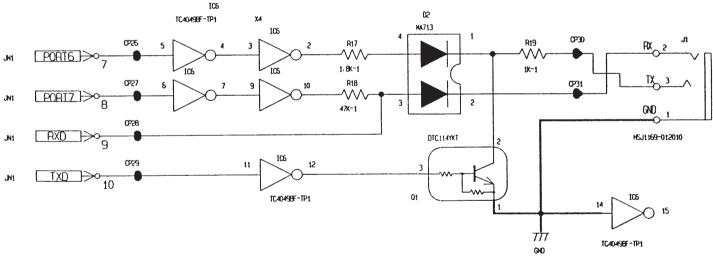


: Function checking points.

1-2. Power Supply









2. SPECIFICATIONS

Display system: 21-character × 8-line liquid crystal display; 12-digit mantissa and 2-

digit exponent for calculations; displays binary, octal, hexadecimal,

sexagesimal values, fraction, complex number

Power supply: Main: Four AAA-size batteries (LR03 (AM4) or R03 (UM-4))

Memory protection: One CR2032 lithium battery

Power consumption: 0.1W

Battery life: Main: Approximately 650 hours (continuous display of 0.) with battery

type LR03 (AM4)

Approximately 350 hours (continuous display of 0.) with battery

type R03 (UM-4)

Approximately 2 years (power switch off) with LR03 (AM4)/R03

(UM-4)

Memory protection: Approximately 15 months

Auto power off:

Power is automatically switched off approximately six minutes after last operation except when drawing dynamic graphs.

Ambient temperature range: $0^{\circ}\text{C} \sim 40^{\circ}\text{C} (32^{\circ}\text{F} \sim 104^{\circ}\text{F})$

Dimensions: 20mm H × 85mm W × 172.5mm D ($^{3}/_{4}$ " H × $3^{3}/_{8}$ " W × $6^{3}/_{4}$ " D)

Weight: 218.5g (7.7 oz) including batteries

Accessories: Hard case

Current Consumption

	TYP [μA]	MAX [μA]
ON (MENU)		20.7
OFF	1430.22	2026.60

3. OPERATION CHECK

NO.	OPERATION	DISPLAY	NOTE
1	Turn the side switch (LOCK) on and push the "RESET" button.	************** * RESET * ***********************************	
		YES RESET ALL NO	
2	F1	**************** * RESET * * ALL MEMORIES! * * * * * * * * * * * * * * *	
3	SHIFT	RUN / COMP G-type : RECT / CONNECT angle : Deg display : Norm 1 M-D/Cpy : M-Disp ZOOM PLOT LINE CLS	
4	AC	No Display	
5	F6 ab/c AC Press the above key at the same time.	***Lx370 TEST *** 1. TEST MODE 2. Transmit 3. Exit	
6	1	Lx370 TEST MODE 1. LCD 2. KEY 3. RAM 4. DET 5. TRS 0. Rst	

NO.	OPERATION	DISPLAY	NOTE
7	1	FRAME Display	
8	EXE	No Display	
9	EXE	ALL DOT Display	
10	EXE	CHECKER Display	
11	EXE	REVERSE CHECKER Display	
12	EXE	Lx370 TEST MODE 1. LCD 2. KEY 3. RAM 4. DET 5. TRS 0. Rst	

NO.	OPERATION	DISPLAY	NOTE
13	2	Trace	
14	Trace Zoom F1 F2	ZOOM	Press each key sequentially as it appears on the display.
15	EXE	Lx370 TEST MODE 1. LCD 2. KEY 3. RAM 4. DET 5. TRS 0. Rst	
16	3	RAMSIZE 32K bytes	
		RAMSIZE 32K bytes RAM OK	After a few seconds.
17	EXE	Lx370 TEST MODE 1. LCD 2. KEY 3. RAM 4. DET 5. TRS 0. Rst	

NO.	OPERATION	DISPLAY	NOTE
18	0	****************** * RESET * ********** RESET ALL MEMORIES? YES RESET ALL NO	
19	F1	**************** *	
20	SHIFT AC	No Display	

4. DATA TRANSFER CHECK

• Turn off both units and connect them by using SB-60.

Function	Display			
Function	Master	Slave		
1) Press the F6, ab/c and AC key at the same time.	*** Lx370 TEST *** 1. TEST MODE 2. Transmit 3. Exit	* * * Lx370 TEST * * * 1. TEST MODE 2. Transmit 3. Exit		
2) 1	Lx370 TEST MODE 1. LCD 2. KEY 3. RAM 4. DET 5. TRS 0. Rst	Lx370 TEST MODE 1. LCD 2. KEY 3. RAM 4. DET 5. TRS 0. Rst		
3) 5	= = = TRANSMIT Check = = = 1. COM Check 2. RANDOM Data Out	= = = TRANSMIT Check = = = 1. COM Check 2. RANDOM Data Out		
4) 1	0. Self 1. Send 2. Receive	0. Self 1. Send 2. Receive		
5) Slave: 2 Master: 1	COM END	WAITING COM OK		

5. DATA COMMUNICATIONS

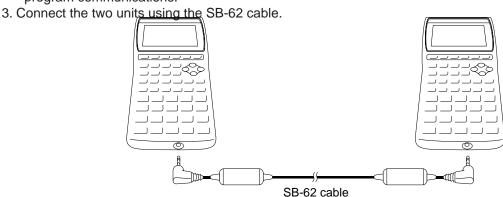
• Through you can transfer programs between the fx-9700GE and another fx-9700GE, an fx-7700GB, an fx-7700GE or an fx-8700GB, all of the examples in this manual cover data transfer with another fx-9700GE only.

5-1. Connecting Two fx-9700GE Units

The following procedure describes how to connect two Power Graphic units with an optional SB-62 connecting cable for transfer of programs between them.

To Connect Two fx-9700GE Units

- 1. Check to make sure that the power of both fx-9700GE units is off.
- 2. Remove the covers from the connectors of the two Power Graphic units.
 - Be sure you keep the connector covers in a safe place so you can replace them after you finish your program communications.



Important

• Keep the connectors of the fx-9700GE covered when you are not using them.

5-2. Before Starting Data Communications

Before actually starting data communications, you should first enter the LINK Mode from the Main Menu.

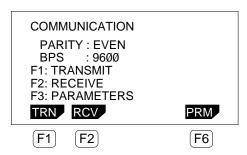
To Enter the LINK Mode

Highlight the LINK icon on the Main Menu.



Press EXE to display the LINK Mode.



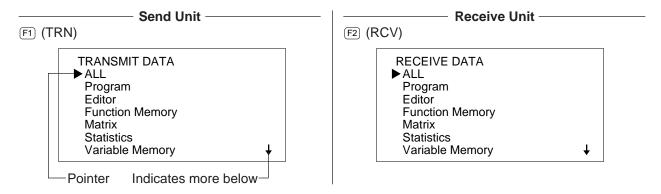


The following are the operations that can be selected from the function menu at the bottom of the display, Press the function key below the operation you want to perform.

- F1 (TRN) Transmit
- F2 (RCV) Receive
- F6 (PRM)..... Parameter settings

About the Data Type Selection Screen

Whenever you press [F1] (TRN) to send data or [F2] (RCV) to receive data, a data type selection screen appears on the display.



The following table describes what each of these items means. You will learn later how to make a selection using these screens.

Selection	Meaning
ALL	All data from Program to Equation
Program	Program data
Editor	File names and file data
Function Memory	Function memory contents
Matrix	Matrix memory contents
Statistics	Single-variable and paired-variable statistical data
Variable Memory	Value memory and extended memory contents
Range	Graph range parameters
Factor	Factor function zoom ratios
Table	Table & Graph function data
Graph Function	Graph functions
Dynamic Graph	Dynamic Graph function data
Equation	Equation coefficients
Back Up	All memory contents, including mode settings

Note

• If the selections you make on the send unit and receive unit do not match, a TRANSMIT ERROR will be generated on the sender and a RECEIVE ERROR will be generated on the receiver.

5-3. Setting Communications Parameters

Before you can perform data communications, you must first set up cartain hardware parameters to make sure that the two units are able to understand each other. The parameters of the sender and the receiver must be identical for them to be able to communicate correctly. There are two hardware parameters that you can set.

Parameter	Settings
	EVEN
PARITY	ODD
	NONE
	1200
Speed (BPS)	2400
Speed (BFS)	4800
	9600

To Set fx-9700GE Parameters

Starting from the LINK Mode:

PARAMETERS

PARITY

EVEN ODD NONE

BPS

1200 2400 4800 9600

TO SELECT: [↓] [↑]

[←] [→]

TO SET : [EXE]

The pointer indicate which parameter you can change. Use \bigcirc and \bigcirc to move the highlighting and change the parameter where the pointer is located.



PARAMETERS

▶ PARITY

EVEN ODD NONE

BPS

1200 2400 4800 9600

TO SELECT: [↓] [↑]

[←] [→]

TO SET : [EXE]

Use **(A)** and **(D)** to move the pointer up and down. After the parameters and highlighted the way you want, press (EXE) to store them.

(EXE)

COMMUNICATION
PARITY: NONE
BPS: 9600

• To abort the parameter setting procedure and return the settings to what they were before you changed them, press before pressing to store the parameters.

5-4. Using ALL, Range, and Factor

The following procedures show how to send data using ALL, Range, and Factor from one fx-9700GE unit to another. The example procedure shows an operation using ALL only, but the procedures for Range and Factor are identical.

^{*} The parameters that are currently set are highlighted on the display.

• To send data using ALL

Send Unit -

Starting from the LINK Mode, press the function key to enter the send mode.

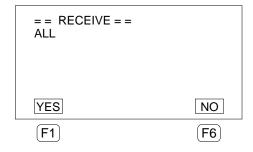
F1 (TRN)

TRANSMIT DATA

► ALL
Program
Editor
Function Memory
Matrix
Statistics
Variable Memory

Make sure that the pointer is located at ALL, and press (EXE) to specify it as the data type.

(EXE)



Press [F1] (YES) to start the send operation, or [F6] (NO) to abort without sending anything.

(YES)

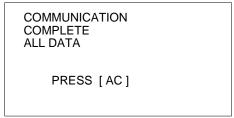
== RECEIVING ==

ALL DATA

TO STOP :[AC]

* Pressing interrupts the send operation and returns to the LINK Mode.

The following appears after the send operation is complete.

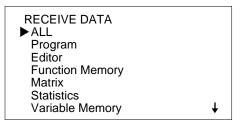


^{*} Press **AC** to return to the LINK Mode.

Receive Unit -

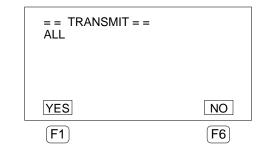
Starting from the LINK Mode, press the function key to enter the receive mode.

(F2) (RCV)



Make sure that the pointer is located at ALL, and press (EXE) to specify it as the data type.

(EXE)



Press F1 (YES) to start the receive operation, or F6 (NO) to abort without receiving anything.

F1 (YES)

== TRANSMITTING = =

ALL DATA

TO STOP :[AC]

* Pressing AC interrupts the receive operation and returns to the LINK Mode.

The following appears after the receive operation is complete.

COMMUNICATION
COMPLETE
ALL DATA

PRESS [AC]

Warning!

Transferring data using ALL causes data in the applicable memory areas of the receiving unit to be replaced by the received data. Make sure that you do not need the data stored in the receiving unit before you start an operation using ALL.

5-5. Data Communications Precautions

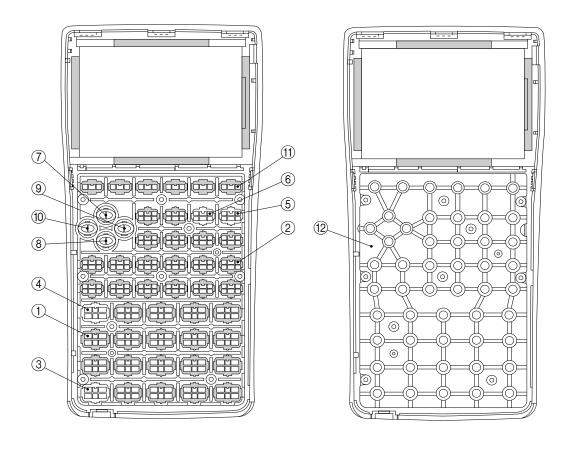
Note the following precautions whenever you perform data communications.

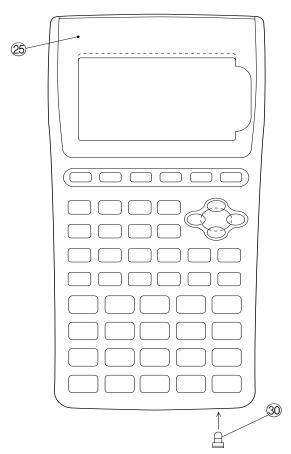
- A TRANSMIT ERROR occurs whenever you try to send data to a receiving unit that is not yet standing by to receive data. When this happens, press to clear the error and try again, after setting up the receiving unit to receive data.
- A RECEIVING ERROR occurs whenever the receiving unit does not receive any data approximately six minutes after it is set up to receive data. When this happens, press to clear the error.
- A TRANSMIT ERROR or RECEIVE ERROR occurs during data communications if the cable becomes disconnected, if the parameters of the two units do not match, or if any other communications problem occurs. When this happens, press (to clear the error and correct the problem before trying data communications again. In this case, any data received before the problem occurred is cleared from the receiving unit's memory.
- A MEMORY FULL operation occurs if the receiving unit memory becomes full during data communications. When this happens, press to clear the error and delete unneeded data from the receiving unit to make room for the new data, and then try again.

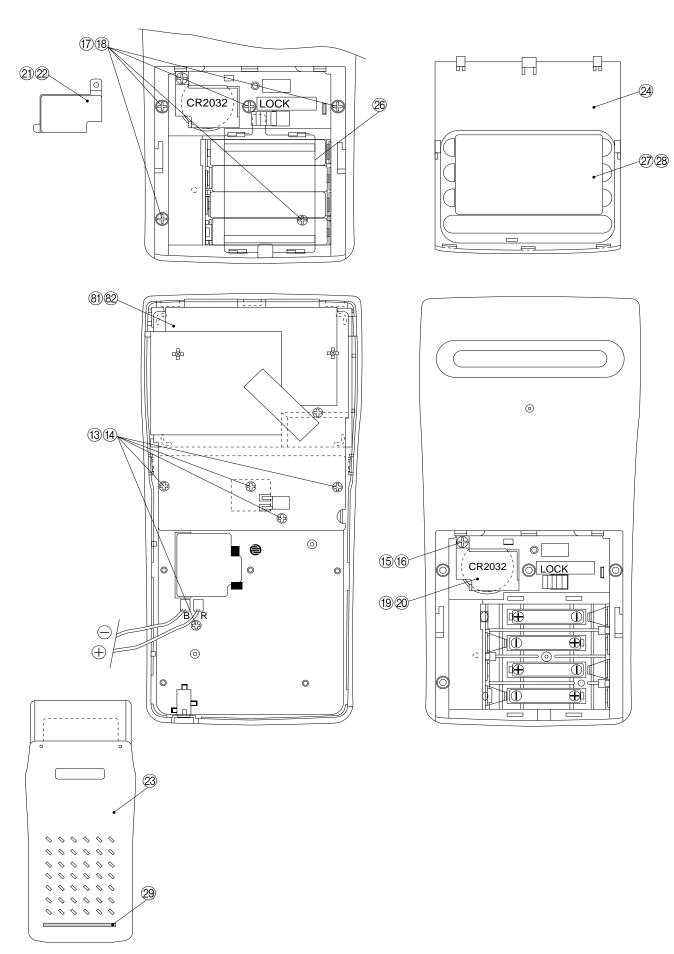
6. TROUBLESHOOTING

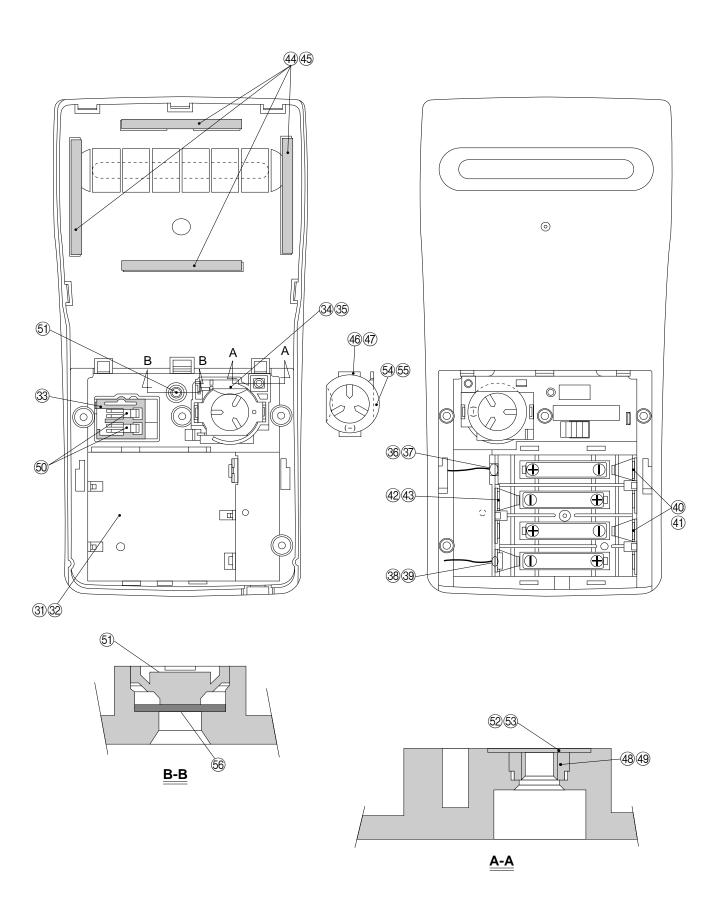
SYMPTOM	CAUSE	SOLUTION
Intermittent display	Dirt or poor contact on battery	Clean or adjust pressure of contact
	Poor contact on power switch	Clean or replace power switch
	Poor connection on PC joiner	Resolder or replace
	Poor soldering on LSI, capacitor, or resistor	Resolder
No display at all	Weak battery	Replace battery
	Dirt or poor contact on battery	Clean or adjust pressure of contact
	Poor contact on power switch	Clean or replace power switch
	Poor connection on PC joiner	Resolder or replace
	Defective LSI, capacitor, or resistor	Replace
Erratic display	Poor contact between LCD and PCB	Replace the heat seal
	Poor soldering on LSI	Resolder or replace display PCB ass'y
Certain key does not function	Dirt on key contact	Clean or replace contact
Tunction	Heavy key motion	Clean or replace the key
	Poor soldering on LSI	Resolder
	Defective LSI, capacitor, or resistor	Replace
All keys do not function	Constant contact is made on a certain key	Separate the contact
	Defective LSI, capacitor, or resistor	Replace
Heavy key motion	Dirt or scratch on the key	Clean or replace the key

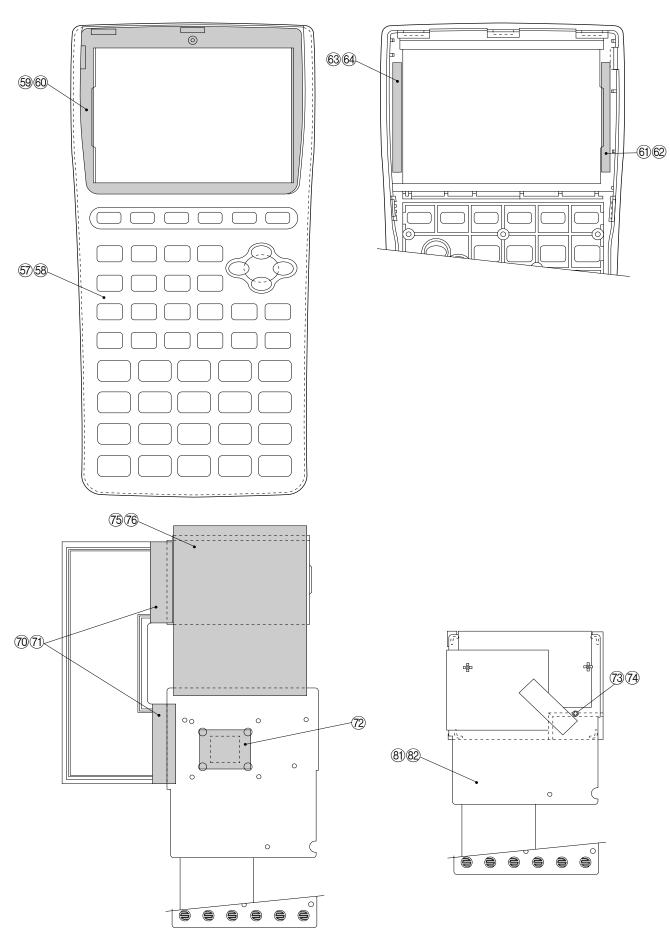
7. DISASSEMBLY VIEW

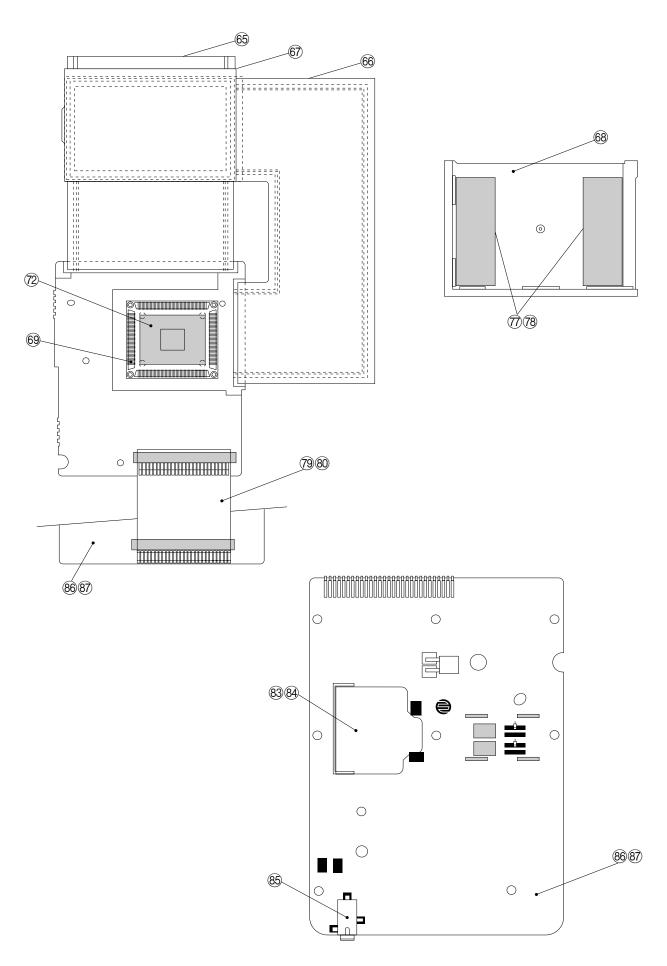












8. PARTS LIST

II: EU/UK/WG/OTHERS (MADE IN JAPAN)

								FOB Japan	
N	Item	Code No.	Parts Name	Specification	Q'	ty	M	N.R.Yen	R
					I	Ш		Unit Price	
	COMPONENT								
N	1		Button A-L370	A211169-1	1	1	10		С
N	2	6407 9920	Button B-L370	A211316-1	1	1	10		С
N	3	6408 0030	Button C-L370	A312937-1	1	1	20		С
N	4	6407 9870	Button D-L370	A211172-1	1	1	20		С
N	5	6408 0070		A313257-1	1	1	20		С
N	6		Button F-L370	A313257-2	1	1	20		С
N	7		Button G-L370	A311693-9	1	1	20		С
N	8	6407 9970		A311693-10	1	1	20		С
N	9		Button I-L370	A311693-11	1 1	1	20		С
N	10	6407 9990	Button J-L370	A311693-12	1 1	1	20		С
N	11		Button K-L370	A312914-1	1 1	1	10		С
N	12		Key contact rubber L370	A211181-1	1	1	5		С
N	13		Flat screw A-L370	A310044-41	5	0	50		С
	14		Flat screw A-G361	A33953-13	0	5	50		C
	15		Decoration screw C-L373	A412299-6	1	0	50		C
	16	6347 2720 6407 9940	Decoration screw G748 Flat screw C-L370	C41077-1	0	1	50		
N	17 18		Flat screw C-L370	A310044-43	5 0	0 5	50 50		СС
N	19	6339 1750 6407 9961		A33953-33 A310945A-3	1	0	10		C
IN	-		Battery cover L375		1 1	1	10		C
	20 21	6391 4171 6405 8780	Battery cover V330 Tape E-L373	A310945A-1 A411085-3	0		10		X
	22	6391 4340	Tape F-V330	A411085A-1		0 1	10		X
N	23	6407 9900	Hard case L370	A211187-1	1	1	5		Ĉ
N	24	6407 9900	Battery cover L370	A211188-1		1	20		C
N	25	6408 0050	Display plate L370	A312942-1		1	1		C
N	26	6408 0060	Battery holder L370	A312942-1		1	20		С
N	27	6408 0200	Label L370	A413640-1		0	20		X
N	28	6408 8190	Label L370AAQ	A413640-2	0	1	20		X
N	29		Rubber foot L375	A413646-1	1	1	20		X
``	30	6390 0431		A310765A-1		1	10		В
	- 00	LOWER CA		7.01010071		•			
N	31		Lower case L370	A110736-1	1	0	1		С
N	32		Lower case L370AAQ	A110736-3	lol	1	1		С
N	33		Switch knob L370	A312941-1	1	1			С
N	34		Battery spring A-L375	A311808-3	1	0			С
	35		Battery spring L383	A311808-1	0	1			С
N	36		Battery spring B-L375	A310154-3	1	0			С
	37		Battery spring V355	A310154-1	0	1	10		С
N	38		Battery spring A-L370	A410112-3	1	0	20		С
N	39		Battery spring A-V355	A410112-1	0	1	20		С
N	40	6408 0110	Battery spring B-L370	A410113-3	2	0	10		С
	41	6386 7470	Battery spring B-V355	A410113-1	0	2	10		С
N	42	6408 0120	Battery spring L370	A412218-2	1	0	10		С
	43	6398 8740	Battery spring L384	A412218-1	0	1	10		С
N	44	6408 0170	Cushion A-L370	A413632-1	4	0	20		С
N	45	6408 8250	Cushion A-L370AAQ	A413632-2	0	4	20		С
N	46	6408 0091	Battery spring A-L375	A33938-3	1	0	20		С
	47	6329 7621	Battery spring A-G272	A33938A-1	0	1	20		С
	48	6405 9260	Nut L373	A411430-3	1	0	20		X
	49	6393 1700	Nut A-V346	A411430-1	0	1	20		Х

Notes: N – New parts

M - Minimum order/supply quantity

R - Rank

Q'ty - Quantity used per unit

R – A: Essential

B: Stock recommended

C : Others

X: No stock recommended

								FOB Japan	Т
N	Item	Code No.	Parts Name	Specification		ty	М	N.R.Yen	R
		0074 7000		A 45000 A	l l	II	40	Unit Price	_
	50		Contact spring	A4532C-1	2	2			C
	51 52		Reset key V160 Insuration seal L373	A311024A-1	1 1	1			C
	52		1	A413730-1	1 .	0	10		X
	53		Insuration seal G106	A43065-1	0	1	. •		X
	54 55		Battery insuration plate L373	A413729-1	1	0	10		C
	55		Battery insuration plate G272	A45154-1	0				
	56	6405 6440 UPPER CAS		A413625-1	1	1	10		С
N	57		Upper case L370	A110735-1	1	0	1		С
N	58		Upper case L370AAQ	A110735-3	0	1			C
N	59		Adhesive tape A-L370	A413594-1	1	0	10		C
N	60		Adhesive tape A-L370AAQ	A413594-2	0	1			C
N	61		Cushion A-L370	A413632-1	1	اٰ	20		C
N	62		Cushion A-L370AAQ	A413632-2	0	1			C
N	63		Cushion B-L370	A413633-1	1	0	20		C
N	64		Cushion B-L370AAQ	A413633-2	0	1			C
	<u> </u>	L370-1 ASS		71110000 2		<u> </u>			
N	65		Heat seal A-L370	A312896-1	1	1	1		Α
N	66		Heat seal B-L370	A312898-1	1	1	1		Α
N		2011 7483		TC531001CF-C085	1	1	1		В
		2011 3955		UPD43256BGU-B12	1	1	1		В
N	67	3335 4375		CD755-TS	1	1	1		В
N	68		LCD holder L370	A211185-1	1	1	20		С
N	69		COF3001-F1 sub ass'y	A313284A*1	1	1			Α
N	70		Tape A-L370	A413596-1	2	0	20		Х
N	71		Tape A-L370AAQ	A413596-2	0	2			Х
	72		Tape C-L170	A413108A-1	2	2			Х
N	73		Flat screw A-L370	A310044-41	1	0	50		С
	74	6334 7860	Flat screw A-G361	A33953-13	0	1	50		С
N	75	6408 0190	Tape B-L370	A413639-1	1	0	20		Х
N	76	6408 8320	Tape B-L370AAQ	A413639-2	0	1	20		Х
	77	6405 9110	Adhesive tape C-L373	A412118A-2	2	0	20		С
	78	6398 5060	Adhesive tape C-L383	A412118-1	0	2	20		С
N	79	6408 0210	PC joiner L370	A413642-1	1	0	10		С
N	80	6408 8350	PC joiner L370AAQ	A413642-3	0	1	10		С
		2105 1533		RH5RA50AA-T1	1	1	1		С
		2189 2009	Linear IC	LA5311M-TP-T1	1	1	1		С
N		2590 1561	Ceramic oscillator	CSAC4.91MGCM-TC	1	1	5		С
		2792 0845	Chip resistor	MCR10EZHJ153	1	1	20		С
		2795 0273	Chip resistor	MCR10EZHJ823	4	4	20		С
		2795 3269	Chip resistor	MCR10EZHG622	1	1	20		С
		2795 2443	Chip resistor	MCR10EZHG302	1	1	20		С
		2795 0693	Chip resistor	MCR10EZHG123	1	1	20		С
			Chip resistor	MCR10EZHG152	1	1	20		С
			Chip resistor	MCR10EZHG105	1	1			С
			Chip resistor	MCR10EZHJ104	1	1	20		С
			Chip resistor	MCR10EZHJ563	1	1			С
			Chip volume	MVR32HXBRN104	1	1			С
			Chip capacitor	MCH312F474ZP	2	2	10		С
			Chip capacitor	MCH215A300JK	2	2			С
			Chip capacitor	MCH212F104ZK	4	4			С
			Chip capacitor	MCH312F105ZP	7	7			С
N			Chip capacitor	MCH215A101JK	1	1			С

Notes: N – New parts

M - Minimum order/supply quantity

R - Rank

Q'ty - Quantity used per unit

R – A : Essential

B: Stock recommended

C : Others

X : No stock recommended

N 2795 3213 Chip resistor MCR10EZHG513 1 1 20 (1 2259 0959 Chip digital transistor DTD114YKT-146 2 2 2 20 (1 2 2 2 20 (1 2 2 2 2 2 2 2 2 2	N 2795 3213 Chip resistor MCR10EZHG513 1 1 20 2795 3836 Chip resistor MCR10EZHG203 1 1 20 2259 0959 Chip digital transistor DTD114YKT-146 2 2 2 20 20 20 20 20	N	Item	Code No.	Parts Name	Specification	Q'ty		М	FOB Japan N.R.Yen	R
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N 81 6407 9770 L370-1 ass'y A110886A*1 H 1 0 1 1 1 1 1 1 1 1	N 81 6407 9770 L370-1 ass'y A110886A*1 H 1 0 1 1 1 1 1 1 1 1	N		2795 3213	Chip resistor	MCR10EZHG513		_	20		С
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N 83 6408 0160 Tape C-L370 A413597-1 1 0 20 1 20 1 20 1 20 3 3 3 5 4 5 3 5 5 3 5 5 5 5 5	N 83 6408 0160 Tape C-L370 A413597-1 1 0 20 N 84 6408 8340 Tape C-L370AAQ A413597-2 0 1 20 85 3501 6538 Miniature jack HSJ1169-012010 1 1 5 N 2805 8700 Electrolytic capacitor ECE-A1AKA220I 1 1 20 2101 0952 MOS IC TC4049BF-TP1 1 1 1 1 N 2105 3206 MOS IC RH5VL40CA-T1 1 1 10 2259 0959 Chip digital transistor DTC114YKT-146 1 1 20 2390 1407 Chip diode MA998-(TX) 1 1 10 2390 0364 Schottky diode MA713-TX 1 1 10 2792 0462 Chip resistor MCR10EZHJ473 1 1 20 2792 1191 Chip resistor MCR10EZHJ182 1 1 10 N 86 6407 9810 L370-2 ass'y A211346*1 H 1 0 1	Ν	81	6407 9770	L370-1 ass'y	A110886A*1 H	1	0	1		В
N 83 6408 0160 Tape C-L370 A413597-1 1 0 20 N 84 6408 8340 Tape C-L370AAQ A413597-2 0 1 20 3 85 3501 6538 Miniature jack HSJ1169-012010 1 1 5 N 2805 8700 Electrolytic capacitor ECE-A1AKA220I 1 1 20 6 2101 0952 MOS IC TC4049BF-TP1 0 1	N 83 6408 0160 Tape C-L370 A413597-1 1 0 20 N 84 6408 8340 Tape C-L370AAQ A413597-2 0 1 20 85 3501 6538 Miniature jack HSJ1169-012010 1 1 5 N 2805 8700 Electrolytic capacitor ECE-A1AKA220I 1 1 20 2101 0952 MOS IC TC4049BF-TP1 1 1 1 1 N 2105 3206 MOS IC RH5VL40CA-T1 1	Ν	82	6408 8180	L370-1 ass'y	A110886A*2	0	1	1		В
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2259 0959 Chip digital transistor DTC114YKT-146 1 1 20 0 0 0 0 0 0 0 0	2259 0959 Chip digital transistor DTC114YKT-146 1 1 20						ı	l			С
2390 1407 Chip diode	2390 1407 Chip diode	Ν					ı	l			С
2390 0364 Schottky diode	2390 0364 Schottky diode					I .	1				С
2792 0462 Chip resistor MCR10EZHJ473 1 1 20 0 0 0 0 0 0 0 0	2792 0462 Chip resistor MCR10EZHJ473 1 1 20					` '	1	l			С
2792 1191 Chip resistor MCR10EZHJ182 1 1 10 0 0 0 0 0 0	2792 1191 Chip resistor MCR10EZHJ182 1 1 10						1	l			С
	2792 0470 Chip resistor MCR10EZHJ102 1 1 20					I .	1	l			С
N 86 6407 9810 L370-2 ass'y	N 86 6407 9810 L370-2 ass'y A211346*1 H 1 0 1					MCR10EZHJ182	1	1			С
				2792 0470	Chip resistor	MCR10EZHJ102	1				С
N 87 6408 8300 L370-2 ass'y A211346*2 0 1 1	N 87 6408 8300 L370-2 ass'y A211346*2 0 1 1	Ν					1	0	1		В
		Ν	87	6408 8300	L370-2 ass'y	A211346*2	0	1	1		В

Notes: N – New parts

M - Minimum order/supply quantity

R - Rank

Q'ty - Quantity used per unit

R – A : Essential

B: Stock recommended

C : Others

X : No stock recommended

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