

# PG-10

## SERVICE NOTES

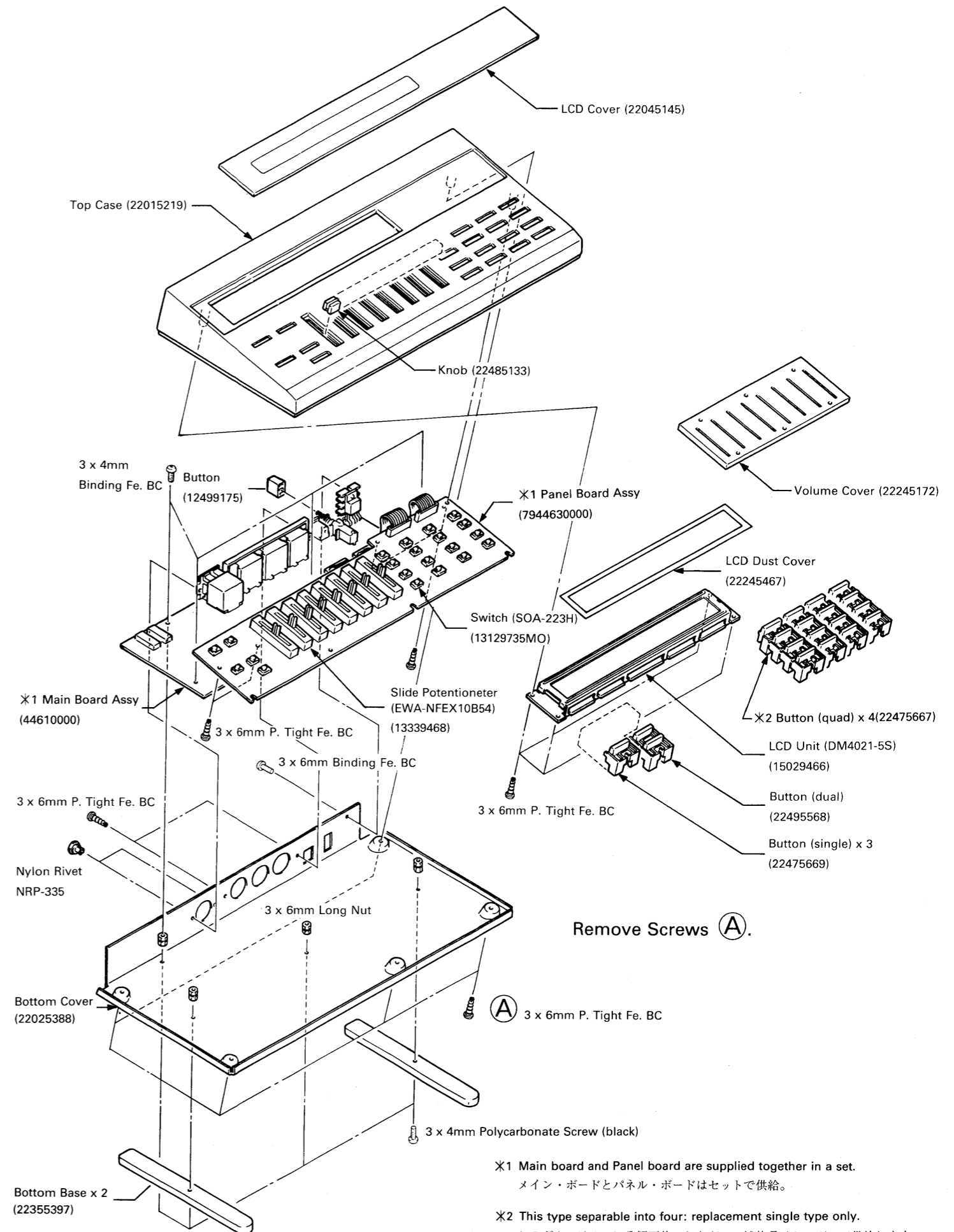
First Edition

### SPECIFICATIONS

CURRENT CONSUMPTION	200mA DC at 9V	
WEIGHT	800g/1 lb 2oz (without Adaptor)	
DIMENSIONS	278(W) x 142(D) x 46(H)mm 10-15/16" x 5-9/16" x 1-13/16"	
ACCESSORY	AC ADAPTER	
	PSA-100	100V
	PSA-120	117V
	PSA-220	220V
	PSA-240	240V Australian



### EXPLODED VIEW/分解図



Remove Screws (A).

※1 Main board and Panel board are supplied together in a set.  
メイン・ボードとパネル・ボードはセットで供給。  
※2 This type separable into four: replacement single type only.  
このボタンは4つに分解可能。したがって補修品はシングルで供給します。  
Button (single) 22475669

**PARTS LIST****CASING**

22015219	Top Case
22025388	Bottom Cover
22045145	LCD Cover
22245172	Volume Cover
22245467	LCD Dust Cover
22355397	Bottom Base

**BUTTON, KNOB**

22485133	Knob	slide potentiometer
22475669	Button single	WRITE, CURSOR
22495568	Button dual	ENTER, EXIT
22475667	*Button quad	PARTIAL SELECT, PARAMETER GROUP, etc.
12499175	Button single	POWER

\*This type separable into four : replacement single type only.  
このボタンは4つに分解可能。したがって、補修品はシングルで供給します。

**AC ADAPTER**

12449509	PSA-100	100V
12449510	PSA-120	117V
12449511	PSA-220	220V
12449512	PSA-240	240V Australian

**LCD**

15029466	DM032Z-4S
No replacement for individual parts. 補修品はユニット単位。	

**PCB ASSEMBLY**

7944610000	Main Board (PCB 22925585)
7944630000	Panel Board (PCB 22925585)
Main board and Panel board are supplied together in a set. メイン・ボードとパネル・ボードはセットで供給。	

**IC**

15179184	μ PD7810G	CPU
1544913100	MB27C-128-20	EP ROM
When ordering EP ROM, specify version number. EP ROM を発注される場合は、バージョン・ナンバーを明記して下さい。		
15179343S0	LC3517AS-12	SRAM
15169515	TC74HC00	quad 2-input NAND gate
15169516	TC74HC02	quad 2-input NOR gate
15169544	TC74HC573P	octal d-type latch (3-state)
15169304X0	SN74LS04N	hex inverter
15199135	L78MR05	+5V voltage regulator

**OPT-ISOLATOR**

15229720	PC9D10	main board
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**TRANSISTOR**

15119132	2SA1015GR	main board
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**DIODE**

15019126D0	1SS-133 T77	main board, panel board
15019281	1SR35-100AT-93	main board

**CRYSTAL**

12389765	TQC-226A-6R 12MHz	main board
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**RESISTOR ARRAY**

13919312M0	RGLD8X153J (15KΩ x 8)	main board
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**CAPACITOR ARRAY**

13529147	CXKD8X101M (100P x 8)	main board
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**FILTER**

12449326	SBT-0460	main board
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**INDUCTOR**

22445240	BL02RN2-R62	main board
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**POTENTIOMETER**

13339468	EWA-NFEX10B54	panel board
13299314	EVN-A1A00B13	1KΩB main board

**SWITCH**

13129143	SDDW-A1 DC16V 1A	POWER
13129735M0	SOA-223HS	panel board

**CONNECTOR**

(cable holder)		
13429222	51016-1000 10P	panel board, main board
13429223	51016-1100 11P	panel board, main board
(wire trap)		
13439445	52011-0710 7P	main board

**SOCKET**

13429168	MIDI3-NS (triplet)
13429654	TCS5351-01-1111 (DIN connector)
13449706	HEC470-01-230 (AC adapter jack)

**HOLDER**

22195889	MIDI holder
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**HEAT SINK**

12469158	SC-7-BS-T	main board
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# TEST MODE

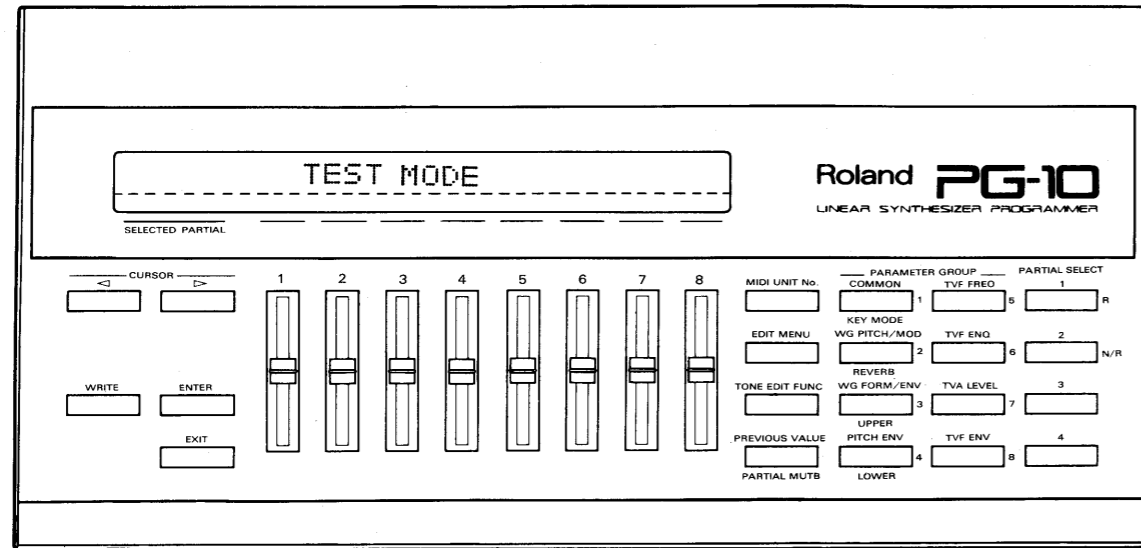
# テストモード

## SLIDER · SWITCH TEST

## スライダー・スイッチテスト

Holding down EXIT and PREVIOUS VALUE, switch the power on; the LCD will read as follows:

EXIT と PREVIOUS VALUE を押しながら電源を ON すると、LCD が下のような表示になる。



Moving a slider (shown above) will read its respective positions on the LCD (0 at bottom; 127 at top). Pressing a button on the panel will indicate its designation on the left of the LCD.

各スライダーを一番下から一番上まで動かすと、対応する LCD の表示部分が 0 から 127 に変化する。パネル上のボタンをおすと、LCD の左端にボタン名を表示する。

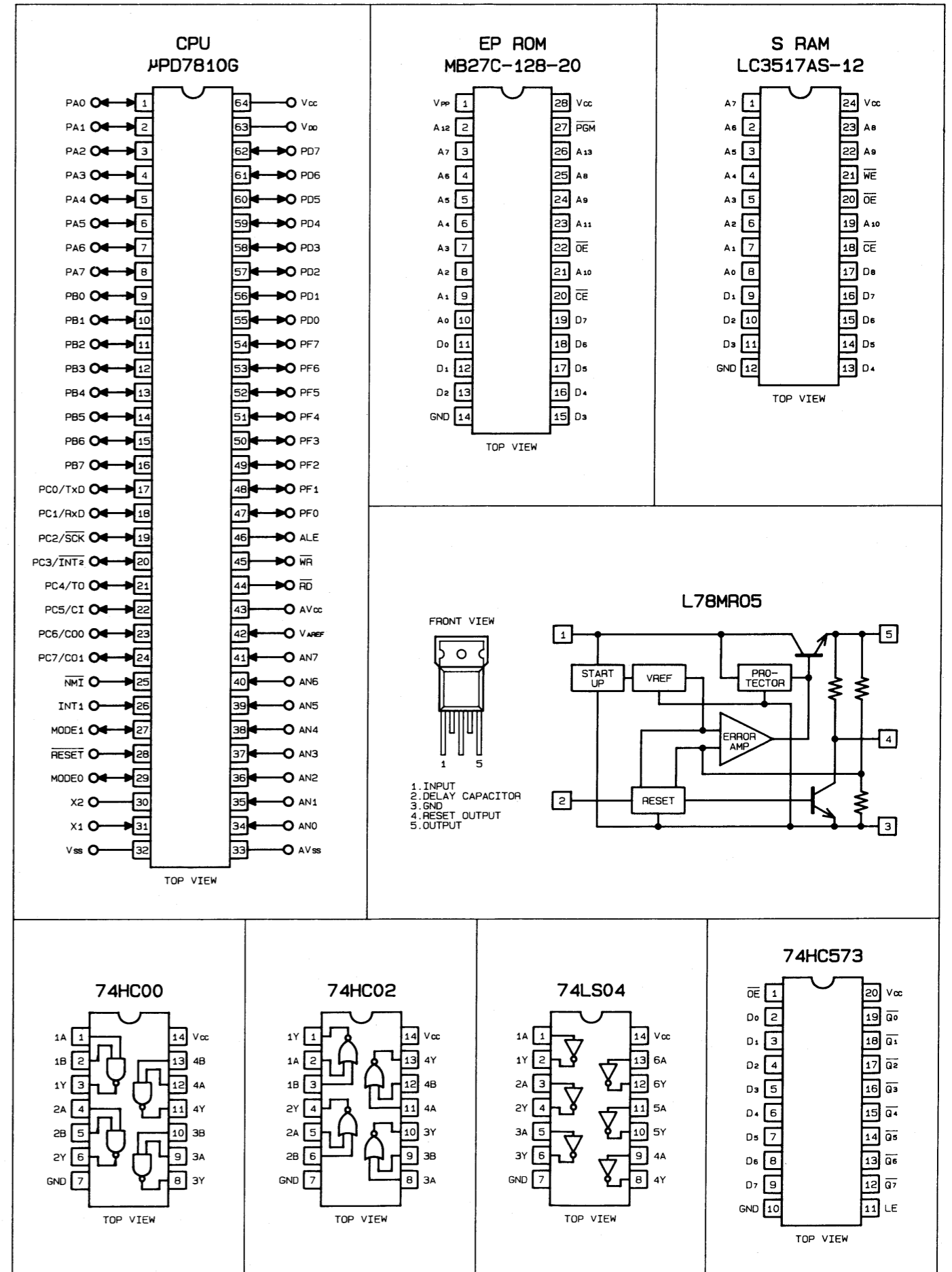
## LCD TEST

Press and hold ENTER and TONE EDIT FUNCTION buttons and then switch the power on. Pressing < will cause all LCD segments to light and stay on. Pressing > will cause all LCD segments to go off.

## LCD テスト

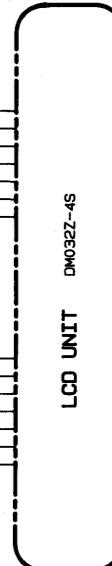
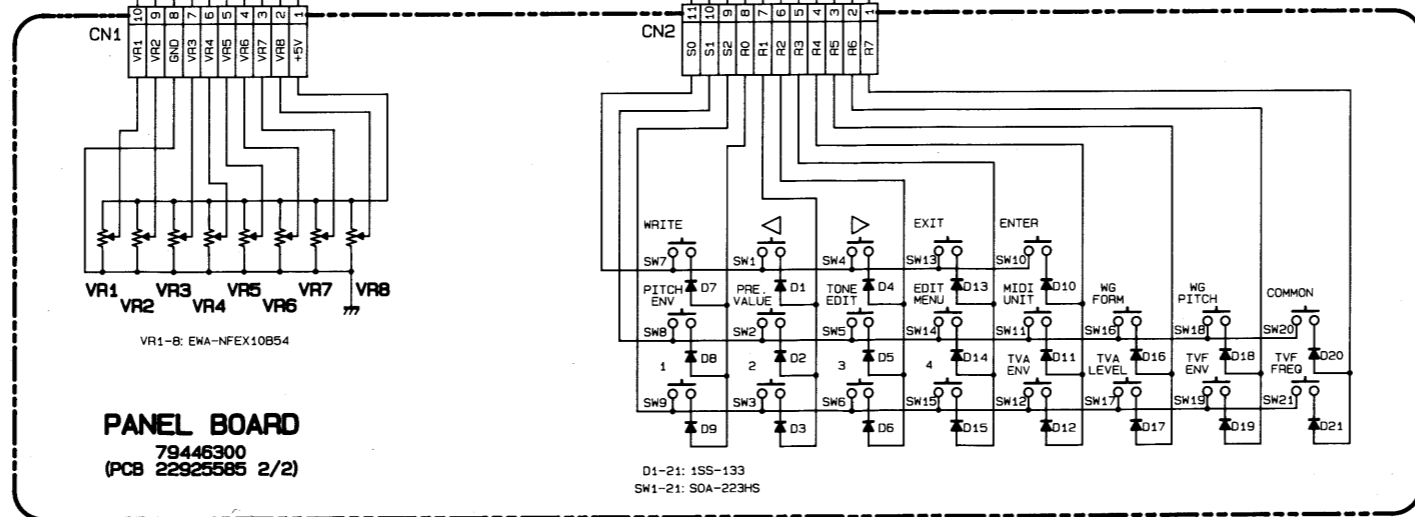
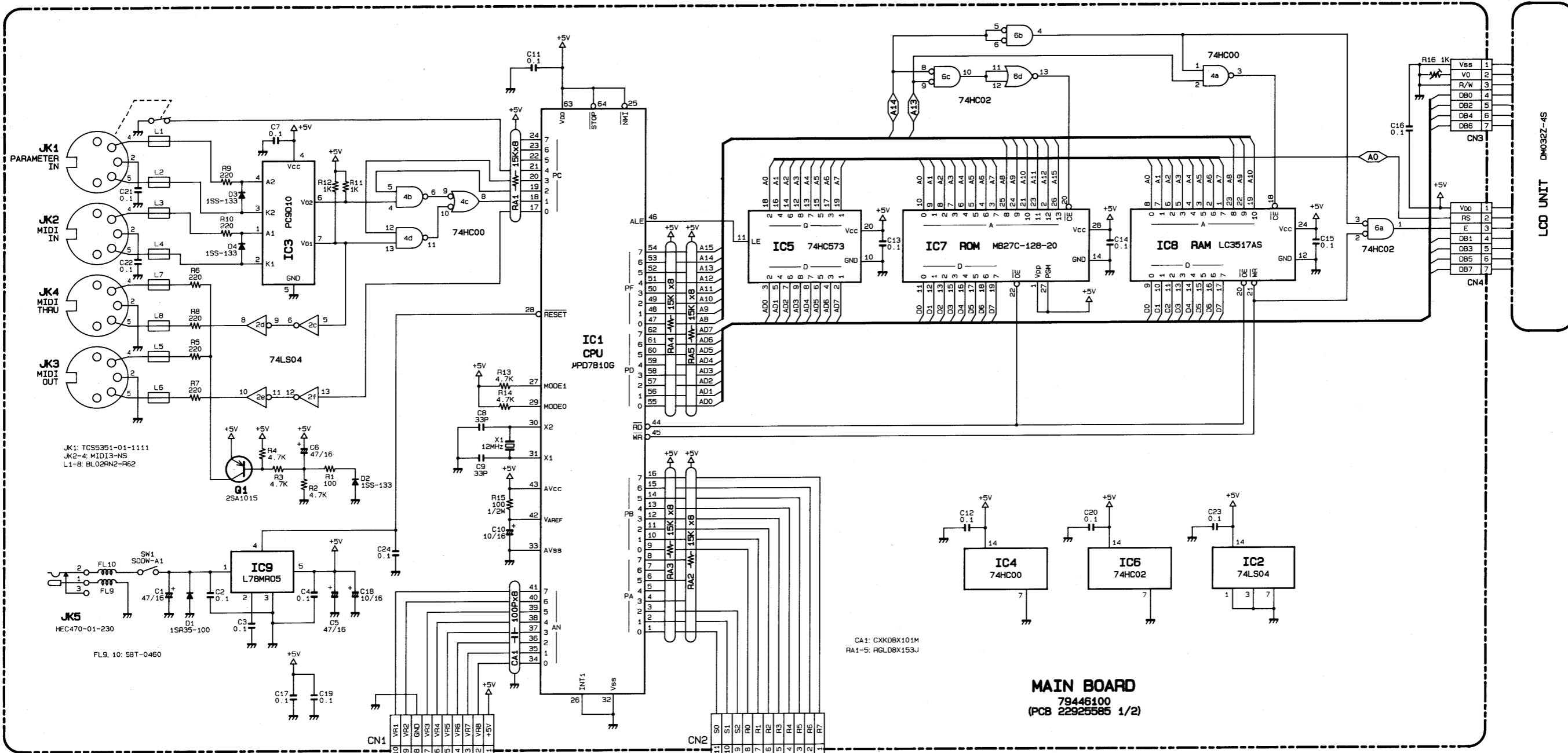
ENTER と TONE EDIT FUNCTION を押しながら電源を ON する。< を押すと、LCD の全セグメントが点灯する。> を押すと、LCD の全セグメントが消灯する。

# IC DATA



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

A B C D E F G H I J K L M N O P Q R S T U

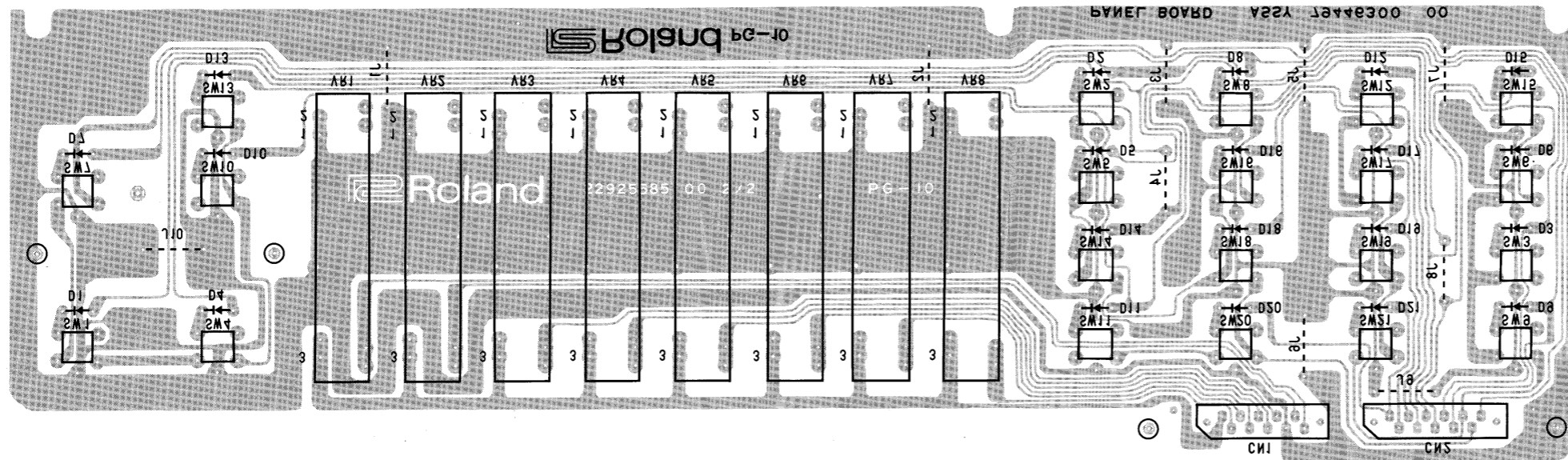


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U

### PANEL BOARD

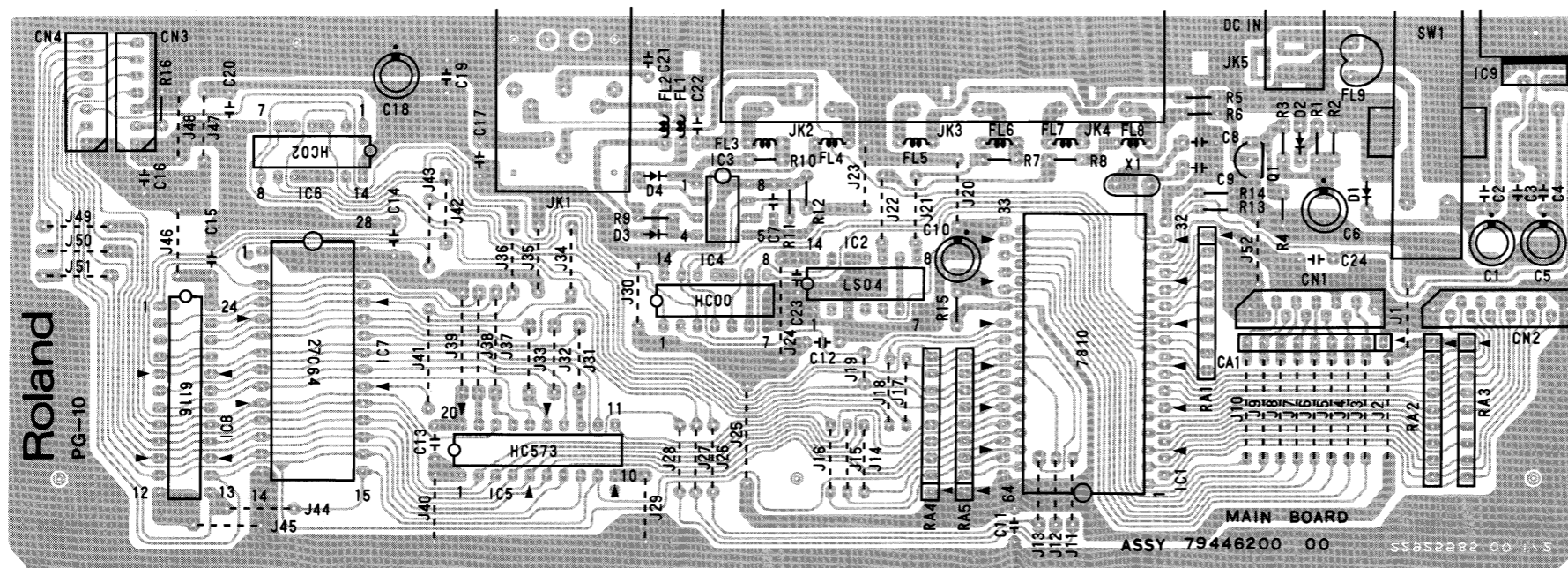
79446300  
(pcb 22925585)



View from foil side

### MAIN BOARD

79446100  
(pcb 22925585)



View from component side

Function...	Transmitted	Recognized	Remarks
Basic Channel : Default Changed	×	×	
Mode : Default Messages Altered	×	×	
Note Number : True Voice	* *****	×	
Velocity : Note ON Note OFF	* *	×	
After Touch : Key's Ch's	* *	×	
Pitch Bender	*	×	
Control Change	*	×	
Prog Change : True #	* *****	×	
System Exclusive	○	○	Tone Parameter
System Common : Song Pos Song Sel Tune	* * *	×	
System Real Time : Clock Commands	* *	×	
Aux Message : Local ON/OFF All Notes OFF Active Sense Reset	* * ○ ×	×	
Notes	* This unit transmits all received MIDI messages except Active Sence and Reset.		
	This unit uses Unit Number for Device ID of System Exclusive message.		

Mode 1 : OMNI ON, POLY  
Mode 3 : OMNI OFF, POLY

Mode 2 : OMNI ON, MONO  
Mode 4 : OMNI OFF, MONO

○ : Yes  
× : No

1. TRANSMITTED DATA

■ Bypassed Message

PG-10 retransmits all MIDI IN messages except :

- Active sensing (FEH)
- Reset (FFH)

■ Note event

Note off

Status	Second	Third
9nH	kkH	00H

kk=Note No. 00H-7FH (0-127)  
n =MIDI ch. 0H - FH (1-16)

When PG-10 is directed (from panel operation) to send Parameter Requestor Write command, it temporarily changes input source from MIDI IN to PARAMETER IN. This would cause PG-10 to miss coming MIDI messages. Among missed MIDI IN messages, Note off will have crucial effect because the corresponding voice will remain on. To overcome this disadvantage PG-10 sends Note off on all channels, upon switching to PARAMETER IN to turn off all notes. Also sends Note off on all channels upon encountering interruption of Active sensing message or message of any type that is expected to come should MIDI connection from the transmitting device is intact, ( Provided that PG-10 has received Active sensing message, FEH.)

■ Mode message

All notes off

Status	Second	Third
BnH	7BH	00H

n =MIDI channel 0H-FH (1-16)

After sending Note off message upon changing input sources or upon detecting failure in the MIDI passage (see Note off above), PG-10 sends All notes off.

■ Exclusive

Status  
F0H : Sysytem Exclsive  
F7H : EOX (End of Exclusive)

Fiddling button or control on the PG-10 will cause transmission of related MIDI exclusive message from PG-10. See Section 3 Exclusive message.

■ Active Sensing

Status  
FEH : Active Sensing

Optional transmission of this message enables the receiving unit to check MIDI connection from PG-10 MIDI OUT to its MIDI IN. PG-10 will stop transmitting of Active sensing for about 500 ms if PG-10 itself fails to receive the active sensing sequence.

2. RECOGNIZED RECEIVE DATA

■ Exclusive

Status  
F0H : System Exclusive  
F7H : EOX (End of Exclusive)

PG-10 will take recognizable contents in the received exclusive message. See Section 3 Exclusive Communication for details.

■ Active Sensing

Status  
FEH : Active Sensing

Having received this message, PG-10 will expect to receive information of any status or data every 300ms (max). If a 300ms passes with no information received, PG-10 assumes that there is a failure somewhere on the MIDI upperstream. And will transmit Note off on all channels to turn off the notes and will return to normal operation (will not check interval of incoming MIDI information).

3. EXCLUSIVE COMMUNICATION

The model ID number of PG-10 is 16H. Each Device-ID# of PG-10 is Unit# specified by MIDI UNIT No. (17-32). Note that each Unit# 17-32 corresponds to each actual Device-ID 16-31, respectively. Use of Unit# makes a part of any MIDI channel accessible with no channel barrier.

■ ONE-WAY COMMUNICATION

Request Data RQ1 11H

PG-10 transmits Parameter Request when Menu screen is to be changed to Edit screen; then changes input source from MIDI IN to PARAMETER IN. This message can be transmitted only when PARAMETER IN (switched-socket) is being engaged with MIDI cable.

Byte	Description	
F0H	Exclusive status	
41H	Manufactures ID (Roland)	
DEV	Device ID	
16H	Model ID	
11H	Command ID	
aaH	Address MSB	*3-1
aaH	Address	
aaH	Address LSB	
ssH	Size MSB	
ssH	Size	
ssH	Size LSB	
sum	Checksum	
F7H	End of System Exclusive	

A summation of the address, data and checksum must result in "0" at lower 7 bits.

Byte	Description	
Byte	Description	
F0H	Exclusive status	
41H	Manufacture ID (Roland)	
DEV	Device ID	
16H	Model ID	
12H	Command ID	
aaH	Address MSB	*3-1
aaH	Address	
aaH	Address LSB	
ddH	Data	*3-2
:		
sum	Checksum	
F7H	End of System Exclusive	*3-3

Notes :

- \*3-1 Addresses and size must cover the area in which data exist. See Section 4.
- \*3-2 Upon receiving this message, PG-10 changes input source from PARAMETER IN to MIDI IN.
- \*3-3

4. PARAMETER ADDRESS MAP

Address are shown in 7-bit hexadecimal.

Address	MSB	LSB
Binary	0aaa aaaa	0bbb bbbb
7-bit hex	AA	BB

The actual address of a parameter in a block is the sum start address of each block and one or more offset addresses.

An address in Tone Temporary Area marked by \*4-3 is a sum of the start address, offset address in Table \*4-3 and one of the offset addresses listed in Common Parameter table or Partial Parameter table.  
The data in the address marked by \*4-4 can be transmitted only when PG-10 is set in D-110 mode.

Parameter base address

Whole part ( Accessible on Unit # )

Start address	Description	
03 00 00	Timbre Temporary Area (Part1)	*4-1
03 00 10	Timbre Temporary Area (Part2)	
:	:	
03 00 60	Timbre Temporary Area (Part7)	
03 00 70	Timbre Temporary Area (Part8)	
03 01 70	Timbre Temporary Area (Rhythm Part)	
03 04 00	Patch Temporary Area	*4-2
04 00 00	Tone Temporary Area (Part1/UPPER)	*4-3
04 01 76	Tone Temporary Area (Part2/LOWER)	
:	:	
04 0B 44	Tone Temporary Area (Part7)	
04 0D 3A	Tone Temporary Area (Part8)	
10 00 00	System Area	*4-4
40 00 00	Write Request	*4-5

Notes :

\*4-1 Timbre temporary area

Offset address	Description	
00 00H	0000 00aa TONE GROUP	0-3 (a, b, m, r)
00 01H	00aa aaaa TONE NUMBER	0-63 (1-64)
00 02H	00aa aaaa KEY SHIFT	0-48 (-24+24)
00 03H	0aaa aaaa FINE TUNE	0-100 (-50+50)
00 04H	000a aaaa BENDER RANGE	0-24
00 05H	0000 00aa ASSIGN MODE	0-3 (POLY 1, POLY 2, POLY 3, POLY 4)
00 06H	0000 000a REVERB SWITCH	0-1 (OFF, ON)
00 06H	0000 0aaa OUTPUT ASSIGN	0-7 (MIX, MIX, 1-6)
00 07H	0000 0000 dummy	
00 08H	0aaa aaaa OUTPUT LEVEL	0-100
00 09H	0000 aaaa PANPOT	0-14 (L-R)
00 0AH	0aaa aaaa Key Range Low	
00 0BH	0aaa aaaa Key Range High	
00 0CH	0000 0000 dummy	
:	:	
00 0FH	0000 0000 dummy	

Total size = 00 00 10H

Offset address	Description	
00 00H	0000 00aa KEY MODE	0-2 (whole, dual, split)
00 01H	00aa aaaa SPLIT POINT	0-61 (C2-C#7)
00 02H	0000 00aa LOWER TONE GROUP	0-3 (a, b, m, r)
00 03H	00aa aaaa LOWER TONE NUMBER	0-63 (1-64)
00 04H	0000 00aa UPPER TONE GROUP	0-3 (a, b, m, r)
00 05H	00aa aaaa UPPER TONE NUMBER	0-63 (1-64)
00 06H	00aa aaaa LOWER KEY SHIFT	0-48 (-24+24)
00 07H	00aa aaaa UPPER KEY SHIFT	0-48 (-24+24)
00 08H	0aaa aaaa LOWER FINE TUNE	0-100 (-50+50)
00 09H	0aaa aaaa UPPER FINE TUNE	0-100 (-50+50)
00 0AH	000a aaaa LOWER BENDER RANGE	0-24
00 0BH	000a aaaa UPPER BENDER RANGE	0-24
00 0CH	0000 00aa LOWER ASSIGN MODE	0-3 (1-4)
00 0DH	0000 00aa UPPER ASSIGN MODE	0-3 (1-4)
00 0EH	0000 000a LOWER REVERB SWITCH	0-1 (OFF, ON)
00 0FH	0000 000a UPPER REVERB SWITCH	0-1 (OFF, ON)
00 10H	0000 aaaa REVERB MODE	0-8 (1-8, OFF)
00 11H	0000 0aaa REVERB TIME	0-7 (1-8)
00 12H	0000 0aaa REVERB LEVEL	0-7
00 13H	0aaa aaaa U/L BALANCE	0-100
00 14H	0aaa aaaa PATCH LEVEL	0-100
00 15H	0aaa aaaa PATCH NAME CHAR.1	32-127 (ASCII CODE)
:	:	
00 24H	0aaa aaaa PATCH NAME CHAR.16	
00 25H	0000 0000 dummy	

Total size = 00 00 26H

\*4-3 Tone Temporary area / Tone Memory

Offset address	Description	
00 00 00	Common parameter	*4-3-1
00 00 0E	Partial parameter (for Partial# 1)	*4-3-2
00 00 48	Partial parameter (for Partial# 2)	
00 01 02	Partial parameter (for Partial# 3)	
00 01 3C	Partial parameter (for Partial# 4)	

Total size = 00 01 76H

Offset address	Description	
00H	0aaa aaaa TONE NAME 1	32-127 (ASCII)
09H	0aaa aaaa TONE NAME 10	
0AH	0000 aaaa Structure of Partial# 1&2	0-12 (1-13)
0BH	0000 aaaa Structure of Partial# 3&4	0-12 (1-13)
0CH	0000 aaaa PARTIAL MUTE	0-15 (0000-1111)
0DH	0000 000a ENV MODE	0-1 (Normal, No sustain)
Total size = 00 00 0EH		
*4-3-2 Partial parameter		
Offset address	Description	
00 00H	0aaa aaaa WG PITCH COARSE	0-96 (C1, C#1, -C9)
00 01H	0aaa aaaa WG PITCH FINE	0-100 (-50+50)
00 02H	000a aaaa WG PITCH KEYFOLLOW	0-16 (-1, -1/2, -1/4, 0, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 5/4, 3/2, 2, s1, s2)
00 03H	0000 000a WG PITCH BENDER SW	0-1 (OFF, ON)
00 04H	0000 00aa WG WAVEFORM/PCM BANK	0-3 (SQU/1, SAW/1, SQU/2, SAW/2)
00 05H	0aaa aaaa WG PCM WAVE #	0-127 (1-128)
00 06H	0aaa aaaa WG PULSE WIDT	0-100
00 07H	0000 aaaa WG PW VELO SENS	0-14 (-7+7)
00 08H	0000 aaaa P-ENV DEPTH	0-10
00 09H	0000 00aa P-ENV VELO SENS	0-3
00 0AH	0000 0aaa P-ENV TIME KEYF	0-4
00 0BH	0aaa aaaa P-ENV TIME 1	0-100
00 0CH	0aaa aaaa P-ENV TIME 2	0-100
00 0DH	0aaa aaaa P-ENV TIME 3	0-100 *4-3-3
00 0EH	0aaa aaaa P-ENV TIME 4	0-100
00 0FH	0aaa aaaa P-ENV LEVEL 0	0-100 (-50+50)
00 10H	0aaa aaaa P-ENV LEVEL 1	0-100 (-50+50)
00 11H	0aaa aaaa P-ENV LEVEL 2	0-100 (-50+50)
00 12H	0aaa aaaa P-ENV SUSTAIN LEVEL 50	*4-3-3
00 13H	0aaa aaaa END LEVEL	0-100 (-50+50)
00 14H	0aaa aaaa P-LFO RATE	0-100
00 15H	0aaa aaaa P-LFO DEPTH	0-100
00 16H	0aaa aaaa P-LFO MOD SENS	0-100
00 17H	0aaa aaaa TVF CUTOFF FREQ	0-100
00 18H	000a aaaa TVF RESONANCE	0-30
00 19H	0000 aaaa TVF KEYFOLLOW	0-14 (-1, -1/2, -1/4, 0, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 5/4, 3/2, 2)

00 1AH	0aaa aaaa TVF BIAS POINT	0-127 (<1A-<7C >1A->7C)
00 1BH	0000 aaaa TVF BIAS LEVEL	0-14 (-7+7)
00 1CH	0aaa aaaa TVF ENV DEPTH	0-100

00 1DH	0aaa aaaa TVF ENV VELO SENS	0-100
00 1EH	0000 0aaa TVF ENV DEPTH KEYF	0-4
00 1FH	0000 0aaa TVF ENV TIME KEYF	0-4
00 20H	0aaa aaaa TVF ENV TIME 1	0-100
00 21H	0aaa aaaa TVF ENV TIME 2	0-100
00 22H	0aaa aaaa TVF ENV TIME 3	0-100
00 23H	0aaa aaaa dummy (for MT-32)	
00 24H	0aaa aaaa TVF ENV TIME 4	0-100
00 25H	0aaa aaaa TVF ENV LEVEL 1	0-100
00 26H	0aaa aaaa TVF ENV LEVEL 2	0-100
00 27H	0aaa aaaa TVF ENV LEVEL 3	0-100 *4-3-4
00 28H	0aaa aaaa TVF ENV SUSTAIN LEVEL	0-100 *4-3-4
00 29H	0aaa aaaa TVA LEVEL	0-100
00 2AH	0aaa aaaa TVA VELO SENS	0-100 (-50+50)
00 2BH	0aaa aaaa TVA BIAS POINT 1	0-127 (<1A-<7C >1A->7C)
00 2CH	0000 aaaa TVA BIAS LEVEL 1	0-12 (-12-0)
00 2DH	0aaa aaaa TVA BIAS POINT 2	0-127 (<1A-<7C >1A->7C)
00 2EH	0000 aaaa TVA BIAS LEVEL 2	0-12 (-12-0)
00 2FH	0000 0aaa TVA ENV TIME KEYF	0-4
00 30H	0000 0aaa TVA ENV TIME V-FOLLOW	0-4
00 31H	0aaa aaaa TVA ENV TIME 1	0-100
00 32H	0aaa aaaa TVA ENV TIME 2	0-100
00 33H	0aaa aaaa TVA ENV TIME 3	0-100
00 34H	0aaa aaaa dummy (for MT-32)	
00 35H	0aaa aaaa TVA ENV TIME 4	0-100
00 36H	0aaa aaaa TVA ENV LEVEL 1	0-100
00 37H	0aaa aaaa TVA ENV LEVEL 2	0-100
00 38H	0aaa aaaa TVA ENV LEVEL 3	0-100 *4-3-4
00 39H	0aaa aaaa TVA ENV SUSTAIN LEVEL	0-100 *4-3-4

Total size = 00 00 3AH

\*4-3-3 TIME 3 is usually transmitted together with SUSTAIN LEVEL=50. Single transmission of SUSTAIN LEVEL is illegal.

\*4-3-4 Transmission of SUSTAIN LEVEL, in turn, is followed by transmission of LEVEL 3 of the same value. Single transmission of LEVEL 3 is illegal.

\*4-4 System Area

Offset address	Description	
00 00H	0aaa aaaa dummy	
00 01H	0000 aaaa Reverb Mode	0-8 (1-8, OFF)
00 02H	0000 0aaa Reverb Time	0-7 (1-8)
00 03H	0000 0aaa Reverb Level	0-7
00 04H	00aa aaaa Partial Reserve (Part 1)	0-32
00 05H	00aa aaaa Partial Reserve (Part 2)	0-32
00 06H	00aa aaaa Partial Reserve (Part 3)	0-32
00 07H	00aa aaaa Partial Reserve (Part 4)	0-32
00 08H	00aa aaaa Partial Reserve (Part 5)	0-32
00 09H	00aa aaaa Partial Reserve (Part 6)	0-32
00 0AH	00aa aaaa Partial Reserve (Part 7)	0-32
00 0BH	00aa aaaa Partial Reserve (Part 8)	0-32
00 0CH	00aa aaaa Partial Reserve (Part R)	0-32 *4-4-1
00 0DH	000a aaaa MIDI Channel (Part 1)	0-16 (1-16, OFF)
00 0EH	000a aaaa MIDI Channel (Part 2)	0-16 (1-16, OFF)
00 0FH	000a aaaa MIDI Channel (Part 3)	0-16 (1-16, OFF)
00 10H	000a aaaa MIDI Channel (Part 4)	0-16 (1-16, OFF)
00 11H	000a aaaa MIDI Channel (Part 5)	0-16 (1-16, OFF)
00 12H	000a aaaa MIDI Channel (Part 6)	0-16 (1-16, OFF)

00 13H	000a aaaa	MIDI Channel (Part 7)	0-16 (1-16, OFF)
00 14H	000a aaaa	MIDI Channel (Part 8)	0-16 (1-16, OFF)
00 15H	000a aaaa	MIDI Channel (Part R)	0-16 (1-16, OFF)
00 16H	dummy		
00 17H	0aaa aaaa	PATCH NAME 1	32-127 (ASCII)
:	:	:	:
00 20H	0aaa aaaa	PATCH NAME 10	

Total size = 00 00 21H

\*4-4-1 Partial reserves must be sent for 9 parts; the total number of reserves must be less than 32.

\*4-5 Write Request \*4-5-1

Offset address	Description		
00 00H	00aa aaaa	Tone Write (part 1 /upper)	0-63 (01-64)
00 01H	0000 000a		0, 1 (Internal, Card)
00 02H	00aa aaaa	Tone Write	
00 03H	0000 000a	(part 2/lower)	
:	:	:	:
00 0EH	00aa aaaa	Tone Write	
00 0FH	0000 000a	(part 8)	
01 00H	0aaa aaaa	Timbre Write	0-127 (A11-B88)
01 01H	0000 000a		0, 1 (Internal, Card)
01 02H	0aaa aaaa	Timbre Write	
01 03H	0000 000a	(part 2)	
:	:	:	:
01 0EH	0aaa aaaa	Timbre Write	
01 0FH	0000 000a	(part 8)	
02 00H	00aa aaaa	Patch Write	0-63 *4-5-2 (11-88)
02 01H	0000 000a		0, 1 (Internal, Card)
03 00H	0aaa aaaa	Patch Write	0-127 *4-5-3 (A11-B88)
03 01H	0000 000a		0, 1 (Internal, Card)
10 00H	0000 00aa	Result	0-3 *4-5-4 0=Function Completed 1=Card Not Ready 2=Write Protected 3=Incorrect Mod

\*4-5-1 (With PARAMETER IN connected to MIDI cable) Once enters into Write screen, PG-10 changes input from MIDI IN to PARAMETER IN.

\*4-5-2 Sends when PG-10 is D-110 mode.

\*4-5-3 Sends when PG-10 is D-10/20 mode.

\*4-5-4 (With PARAMETER IN connected to MIDI cable) Upon receiving this message, PG-10 returns input source to MIDI IN.  
(With PARAMETER IN disconnected) PG-10 cannot receive this message even it has sent Write Request and will remain receiving information from MIDI IN.

