

1. TRANSMITTED DATA

1-1 UNIVERSAL SYSTEM EXCLUSIVE MESSAGE

DEVICE INQUIRY REPLY

Byte [hex]	Description
F0	Exclusive Status
7E	Non Realtime Message
00	Device ID (MIDI Channel)
06	Inquiry Message
02	Identity reply
42	KORG ID (Manufacturers ID)
5A	VOX Cambridge50 ID (Family ID (LSB))
01	(Family ID (MSB))
00	(Member ID (LSB))
00	(Member ID (MSB))
vv	00~ (Minor Ver. (LSB))
00	(Minor Ver. (MSB))
vv	01~ (Major Ver. (LSB))
00	(Major Ver. (MSB))
F7	End of Exclusive

This message is transmitted whenever an INQUIRY MESSAGE REQUEST is received.

1-2 KORG SYSTEM EXCLUSIVE MESSAGE

Byte [hex]	Description
F0	Exclusive Status
42	KORG ID
30	Format ID
00	VOX Cambridge50 ID
01	
5A	
ff	Function Code
(dd)	Data
F7	End of Exclusive

See 3.KORG SYSTEM EXCLUSIVE MESSAGE FORMAT for more information.

2. RECOGNIZED RECEIVE DATA

2-1 UNIVERSAL SYSTEM EXCLUSIVE MESSAGE

DEVICE INQUIRY MESSAGE REQUEST

Byte [hex]	Description
F0	Exclusive Status
7E	Non Realtime Message
nn	Device ID
06	Inquiry Message
01	Inquiry Request
F7	End of Exclusive

nn = 00 :MIDI Channel  
 = 7F :Any Channel

2-2 KORG SYSTEM EXCLUSIVE MESSAGE

Byte [hex]	Description
F0	Exclusive Status
42	KORG ID

30	Format ID
00	VOX Cambridge50 ID
01	
5A	
ff	Function Code
(dd)	Data
F7	End of Exclusive

See 3.KORG SYSTEM EXCLUSIVE MESSAGE FORMAT for more information.

### 3.KORG SYSTEM EXCLUSIVE MESSAGE FORMAT

Function Code List (R:Receive, T:Transmit)

Func [hex]	Description	R	T (*1)	T (*2)
12	MODE REQUEST	o		
10	CURRENT PROGRAM DATA DUMP REQUEST	o		
1C	PROGRAM DATA DUMP REQUEST	o		
0E	GLOBAL DATA DUMP REQUEST	o		
11	PROGRAM WRITE REQUEST	o		
42	MODE DATA		r	
40	CURRENT PROGRAM DATA DUMP	o	r	
4C	PROGRAM DATA DUMP	o	r	
51	GLOBAL DATA DUMP		r	
4E	MODE CHANGE	o		P
41	PARAMETER CHANGE	o		C
26	DATA FORMAT ERROR		E	
23	DATA LOAD COMPLETED		E	
24	DATA LOAD ERROR		E	
21	WRITE COMPLETED		E	W
22	WRITE ERROR		E	

\*1 : Transmitted when  
r : Request message is received.  
E : Exclusive message is received.

\*2 : Transmitted when  
P : Program is changed by Switch.  
C : Parameter is changed by Switch or Knob.  
W : DATA WRITE by Switch is completed.

#### (1) MODE REQUEST R

Byte	Description
F0,42,30,00,01,5A	Exclusive Header
12	Function Code
F7	End of Exclusive

Receives this message, and transmits Func=42 message.

#### (2) CURRENT PROGRAM DATA DUMP REQUEST R

Byte	Description
F0,42,30,00,01,5A	Exclusive Header
10	Function Code
F7	End of Exclusive

Receives this message, and transmits Func=40 or Func=24 message.

#### (3) PROGRAM DATA DUMP REQUEST R

Byte	Description
F0,42,30,00,01,5A	Exclusive Header
1C	Function Code

0000 000m	User(0)/Preset(1)
0000 pppp	Program No. (User:0-7/Preset:0-A)
F7	End of Exclusive

Receives this message, and transmits Func=4C or Func=24 message.

(4) GLOBAL DATA DUMP REQUEST R

Byte	Description
F0,42,30,00,01,5A	Exclusive Header
0E	Function Code
F7	End of Exclusive

Receives this message, and transmits Func=51 or Func=24 message.

(5) PROGRAM WRITE REQUEST R

Byte	Description
F0,42,30,00,01,5A	Exclusive Header
11	Function Code
00	(Reserved)
0000 0ppp	User Program No. (User:0-7)
F7	End of Exclusive

Receives this message, write the data and transmits Func=21 or Func=22 message.

(6) MODE DATA T

Byte	Description
F0,42,30,00,01,5A	Exclusive Header
42	Function Code
0000 00mm	User(0)/Preset(1)/Manual(2)
0000 pppp	Program No. (User:0-7/Preset:0-A)
F7	End of Exclusive

Receives Func=12 message, and transmits this message.

(7) CURRENT PROGRAM DATA DUMP R , T

Byte	Description
F0,42,30,00,01,5A	Exclusive Header
40	Function Code
0ddd dddd	Data <span style="float: right;">(NOTE 1,3)</span>
:	:
F7	End of Exclusive

Receives this message, saves the data to Current Buffer and transmits Func=23 or Func=24 message.  
Receives Func=10 message, and transmits this message.

(8) PROGRAM DATA DUMP R , T

Byte	Description
F0,42,30,00,01,5A	Exclusive Header
4C	Function Code
0000 000m	User(0)/Preset(1)
0000 pppp	Program No. (User:0-7/Preset:0-A)
0ddd dddd	Data <span style="float: right;">(NOTE 1,3)</span>
:	:
F7	End of Exclusive

Receives this message, saves the data to Internal Memory and transmits Func=23 or Func=24 message.  
Receives Func=1C message, and transmits this message.

(9) GLOBAL DATA DUMP T

Byte	Description
F0,42,30,00,01,5A	Exclusive Header
51	Function Code
0ddd dddd	Data <span style="float: right;">(NOTE 2,3)</span>

:	:
F7	End of Exclusive

Receives Func=0E message, and transmits this message.

(10) MODE CHANGE R , T

Byte	Description
F0,42,30,00,01,5A	Exclusive Header
4E	Function Code
0000 00mm	User(0)/Preset(1)/Manual(2)
0000 pppp	Program No. (User:0-7/Preset:0-A)
F7	End of Exclusive

Receives this message, changes the Mode and transmits Func=23 or Func=24. When the Mode or Program is changed by Switch, transmits this message.

(11) PARAMETER CHANGE R , T

Byte	Description
F0,42,30,00,01,5A	Exclusive Header
41	Function Code
0ppp ppp	Parameter ID <span style="float: right;">(TABLE 1,2)</span>
0sss sss	Parameter SUB ID <span style="float: right;">(TABLE 1,2)</span>
0vvv vvv	Value (LSB bit 6~0)
0vvv vvv	Value (MSB bit13~7)
F7	End of Exclusive

Receives this message, changes a Parameter and transmits Func=23 or Func=24 message. When the Parameter is changed by Switch or Knob, transmits this message.

(12) DATA FORMAT ERROR T

Byte	Description
F0,42,30,00,01,5A	Exclusive Header
26	Function Code
F7	End of Exclusive

Transmits this message when there is an error in the received MIDI message.

(13) DATA LOAD COMPLETED (ACK) T

Byte	Description
F0,42,30,00,01,5A	Exclusive Header
23	Function Code
F7	End of Exclusive

Transmits this message when DATA LOAD, PROCESSING have been completed.

(14) DATA LOAD ERROR (NAK) T

Byte	Description
F0,42,30,00,01,5A	Exclusive Header
24	Function Code
F7	End of Exclusive

Transmits this message when DATA LOAD, PROCESSING have not been completed.

(15) WRITE COMPLETED T

Byte	Description
F0,42,30,00,01,5A	Exclusive Header
21	Function Code
00	(Reserved)
0000 0ppp	User Program No.
F7	End of Exclusive

Transmits this message when DATA WRITE has been completed.

## (16) WRITE ERROR

T

Byte	Description
F0,42,30,00,01,5A	Exclusive Header
22	Function Code
00	(Reserved)
0000 0ppp	User Program No.
F7	End of Exclusive

Transmits this message when DATA WRITE has not been completed.

## NOTE 1: PROGRAM DATA DUMP FORMAT

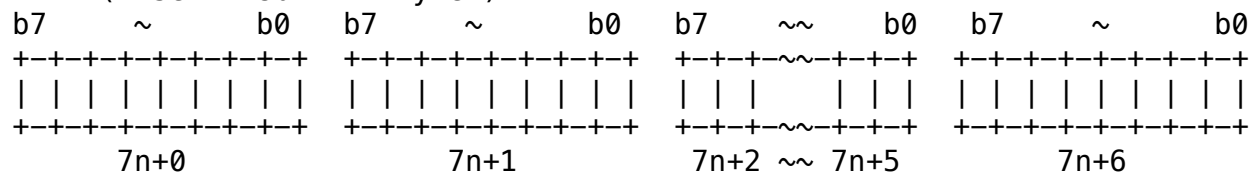
30 bytes = 7\*4+2 → 8\*4+(1+2) ⇒ 35 bytes  
(TABLE 1)

## NOTE 2: GLOBAL DATA DUMP FORMAT

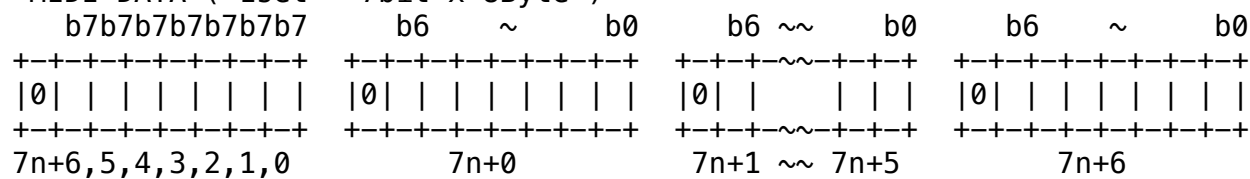
16 bytes = 7\*2+2 → 8\*2+(1+2) ⇒ 19 bytes  
(TABLE 2)

## NOTE 3: DUMP DATA CONVERSION

DATA ( 1set = 8bit x 7Byte )



MIDI DATA ( 1set = 7bit x 8Byte )



[ TABLE 1 ] PROGRAM PARAMETERS

No. : Address in the PROGRAM DATA DUMP.

ID : Parameter ID, SUB ID for PARAMETER CHANGE.

No. [hex]	PARAMETER	DATA [hex]	VALUE	ID [hex]
00	PROGRAM NAME (1st)	20~7E	ASCII code ' ' ~ '~'	00,00
0F	PROGRAM NAME (16th)			00,0F
10	NR SENS	00~64	0.0~10.0	01,00
11	VOLUME	00~64	0.0~10.0	02,00
AMP PARAMETERS				
12	Model	00~0A	DELUXE CL ~ LINE	03,00
13	GAIN	00~64	0.0~10.0	03,01
14	TREBLE	00~64	0.0~10.0	03,02
15	MIDDLE	00~64	0.0~10.0	03,03
16	BASS	00~64	0.0~10.0	03,04
MODULATION PARAMETERS				
17	Type	00,01~04	OFF, CHORUS ~ TWIN TREM	04,00
18~19	Parameters		(TABLE 1-1)	04,01~
DELAY/REVERB PARAMETERS				
1A	Type	00,01~04	OFF, A.DELAY ~ HALL	05,00
1B~1D	Parameters		(TABLE 1-2)	05,01~

[ TABLE 1-1 ] MODULATION Parameters

Offset [hex]	PARAMETER	DATA [hex]	VALUE	ID [hex]
OFF	Type [hex] = 00			
00~01	(reserved)			
CHORUS	Type [hex] = 01			
00~01	SPEED	12C~1B58	0.3~7.0 [hz] (*3)	04,01
FLANGER	Type [hex] = 02			
00~01	SPEED	64~1388	0.1~5.0 [hz] (*3)	04,01
ORG PHASE	Type [hex] = 03			
00~01	SPEED	96~2328	0.15~9.0 [hz] (*3)	04,01
TWIN TREM	Type [hex] = 04			
00~01	SPEED	9C4~2710	2.5~10.0 [hz] (*3)	04,01

[ TABLE 1-2 ] DELAY/REVERB Parameters

Offset [hex]	PARAMETER	DATA [hex]	VALUE	ID [hex]
OFF	Type [hex] = 00			
00~02	(reserved)			
A.DELAY	Type [hex] = 01			
00	MIX	00~64	0.0~10.0	05,01
01~02	TIME	28~456	40~1110 [ms] (*3)	05,02
TAPE ECHO	Type [hex] = 02			
00	MIX	00~64	0.0~10.0	05,01
01~02	TIME	28~456	40~1110 [ms] (*3)	05,02
SPRING	Type [hex] = 03			
00	MIX	00~64	0.0~10.0	05,01
01~02	TIME	28~456	40~1110 (*3)	05,02
HALL	Type [hex] = 04			
00	MIX	00~64	0.0~10.0	05,01
01~02	TIME	28~456	40~1110 (*3)	05,02

\*3 : Byte Order = little endian

[ TABLE 2 ] GLOBAL PARAMETERS

No. : Address in the GLOBAL DATA DUMP.  
ID : Parameter ID, SUB ID for PARAMETER CHANGE.

No. [hex]	PARAMETER	DATA [hex]	VALUE	ID [hex]
00~02	(reserved)			
03	USB Audio Routing	00~03	MODE1~4	43,00
04	Cabinet Simulator	00,01	Off,On	43,01
05~0F	(reserved)			