

**Digital Mixer D-2008SP**  
**External Control Protocol – Serial (RS-232C), TCP/IP**  
Ver.4.01 July.16 /2010

■ **Summary**

The External Control protocol described in this document is designed for use of controlling the D-2008SP from a personal computer or remote controller.

This spec sheet applies to the D-2008SP firmware of version 4.0.0 or later.

Settings that can be controlled are as follows:

- Channel fader gain
- ✧ Channel fader Fine gain
- Channel ON/OFF
- Line(Stereo) Select
- Bus assignment
- Input Matrix Crosspoint Gain
- Output assignment
- Output Matrix Crosspoint Gain
- ✧ Fader Group
- ✧ Fader Group Fine Trim
- Channel Mute ON/OFF
- Preset memory recall
- Fader Layer recall
- External Control Switch LED Indication
- Auto Status Notification Start/Stop
- Gate Status Notification Start/Stop

If necessary, the D-2008SP's activation can be checked or setting values read by using the following commands:

- Status request (reading of the D-2008SP's setting value)

Status Information

- D-2008SP connection establishment status (output from the D-2008SP at the time of connection establishment)
- Gate Status (output from the D-2008SP at the time of gate status changed)
- External Control Switch Press Status (output from the D-2008SP at the time of D-2012C's External Control Switch press status changed)

[Note]

- ✧ Mark Command works only when set Fine Gain Command using.  
External Control Switch LED Indication command functions only for the switch which set External Control Switch setting.  
Preset memory recall, Fader Layer recall, Console Function Key Indication command functions only for D-2008SP (ID1).

When connecting the remote controller to the D-2008SP by way of this protocol, set the D-2008SP's Using port as follows:

(Refer; External Control Port Settings of the D-2000 series setting software instructions manual.)

**Using Port**

- Serial port: (In case of using Serial port)
- Bit rate: 9,600/19,200/38,400/115,200 (Select according to the remote controller to be connected.)  
or
- TCP/IP port: (In case of using TCP/IP port)
- TCP Port No.: (Set according to the remote controller to be connected.)

■ **Serial Port Settings**

- 9,600/19,200/38,400/115,200 bps, 8 bits, non-parity, stop bit: 1, no flow control
- Connector: D-sub 9 pins, straight cable
- Signal line: No. 2=TX; No. 3=RX; No. 5=Ground

■ **TCP/IP Connection**

No.	Parameter	Description (rules)
1	Connection Path	1 path
2	Data Length	Variable-length, The maximum length is 1024 bytes
3	Code Classification	Binary
4	Delivery Confirm	No handshakes at application layer
5	Resend Control	None
6	Priority Control	None

D-2008SP is a TCP server.

TCP Port is always connected.

For the purpose of connection keeping, D-2008SP performs the following behavior.

Transmitting some kind of data at least once in the last 10 seconds.

When there is the status that for send, D-2008SP transmits the contents. When there is not it, D-2008SP transmits 0xFF only as for 1 byte.

When D-2008SP received nothing from a remote controller more than 1 minute, D-2008SP disconnect the TCP/IP connection.

■ **Command Construction**

- |         |
|---------|
| Command |
|---------|

Data length (N)
-----------------

Data 1
--------

Data 2
--------

 ..... 

Data N
--------
- Where 

Command
---------

 is in the range 80H to FFH. And where 

Data length
-------------

 and 

Data
------

 are in the range 00H to 7FH.
- The second byte data indicates the number of byte data that follow the second byte data.
- If received data contains more byte data than the indicated number, those exceeding the number are abandoned.
- When a next command is received, the previous data is abandoned if shorter than the indicated number.

## ■ Control Command and Setting Value

### ● Channel Fader Gain (Position)

Set the input, bus and output channel fader gains by position.

For the relationship of position to gain (dB), refer to the Position vs. Gain Table for Fader.

The D-2008SP transmits changed value data after receiving this command.

**91H, 03H, <Channel Attribute>, <Channel Number>, <Position>**

<Channel Attribute>

00H: Audio In channel

01H: Audio Out channel

02H: CobraNet In channel

03H: CobraNet Out channel

04H: Audio Bus channel

05H: Ext. In channel

06H: CobraNet Bus channel

<Channel Number>

When Channel Attribute=00H: 00H - 21H (Audio In channel 1 – 34)

When Channel Attribute=01H: 00H - 1FH (Audio Out channel 1 – 32)

When Channel Attribute=02H: 00H - 0FH (CobraNet In channel 1 – 16)

When Channel Attribute=03H: 00H - 0FH (CobraNet Out channel 1 – 16)

When Channel Attribute=04H: 00H - 17H (Audio Bus channel 1 – 24)

When Channel Attribute=05H: 00H - 03H (Ext. In channel 1 – 4)

When Channel Attribute=06H: 00H - 0FH (CobraNet Bus channel 1 – 16)

<Position>

00H - 3FH (-INF - +10dB, see the Position vs. Gain Table)

Example of setting Audio In channel 1 fader gain to 0 dB:

91H, 03H, 00H, 00H, 2AH

### ● Channel Fader Gain (Step)

Set the input, bus and output channel gain positions by the number of steps.

Positions can be varied from the current status by the designated number of steps.

One position varies per step.

The D-2008SP informs position values changed by step Up or Down.

**91H, 03H, <Channel Attribute>, <Channel Number>, <Step>**

<Channel Attribute>

00H: Audio In channel

01H: Audio Out channel

02H: CobraNet In channel

03H: CobraNet Out channel

04H: Audio Bus channel

05H: Ext. In channel

06H: CobraNet Bus channel

<Channel Number>

When Channel Attribute=00H: 00H - 21H (Audio In channel 1 – 34)

When Channel Attribute=01H: 00H - 1FH (Audio Out channel 1 – 32)

When Channel Attribute=02H: 00H - 0FH (CobraNet In channel 1 – 16)

When Channel Attribute=03H: 00H - 0FH (CobraNet Out channel 1 – 16)

When Channel Attribute=04H: 00H - 17H (Audio Bus channel 1 – 24)

When Channel Attribute=05H: 00H - 03H (Ext. In channel 1 – 4)

When Channel Attribute=06H: 00H - 0FH (CobraNet Bus channel 1 – 16)

<Step>

UP: 41H - 5FH (1 step up - 31-step up) ; Example showing 1step Up: 41H

Down: 61H - 7FH (1 step down – 31–step down) ; Example showing 1step Down: 61H)

Example showing 3-step Up of Audio In channel 1 fader gain

91H, 03H, 00H, 00H, 43H

#### ◇ Channel Fader Fine Gain (Position)

Set the input , bus and output channel fader fine gains by position.

For the relationship of position to fine gain (dB), refer to the Position vs. Fine Gain Table for Fader.

The D-2008SP transmits changed value data after receiving this command.

**93H, 04H, <Channel Attribute>, <Channel Number>, <Position(U)>, <Position(L)>**

<Channel Attribute>

00H: Audio In channel

01H: Audio Out channel

02H: CobraNet In channel

03H: CobraNet Out channel

04H: Audio Bus channel

05H: Ext. In channel

06H: CobraNet Bus channel

<Channel Number>

When Channel Attribute=00H: 00H - 21H (Audio In channel 1 – 34)

When Channel Attribute=01H: 00H - 1FH (Audio Out channel 1 – 32)

When Channel Attribute=02H: 00H - 0FH (CobraNet In channel 1 – 16)

When Channel Attribute=03H: 00H - 0FH (CobraNet Out channel 1 – 16)

When Channel Attribute=04H: 00H - 17H (Audio Bus channel 1 – 24)

When Channel Attribute=05H: 00H - 03H (Ext. In channel 1 – 4)

When Channel Attribute=06H: 00H - 0FH (CobraNet Bus channel 1 – 16)

<Position(U)>

00H - 06H (Upper 3 bits)

<Position(L)>

00H - 7FH (Lower 7 bits)

Gain range : -INF - +10dB, (0.1dB unit, Position 0 - 800)

Example of setting Audio In channel 1 fader gain to 0 dB:

93H, 04H, 00H, 00H, 05H, 3CH

◇ **Channel Fader Fine Gain (Step)**

Set the input, bus and output channel fine gain positions by the number of steps.

Positions can be varied from the current status by the designated number of steps.

One position varies per step. Refer to the Value vs. Fine Gain Table for Fader.

The D-2008SP informs position values changed by step Up or Down.

**93H, 04H, <Channel Attribute>, <Channel Number>, <Step(U)>, <Step(L)>**

<Channel Attribute>

00H: Audio In channel

01H: Audio Out channel

02H: CobraNet In channel

03H: CobraNet Out channel

04H: Audio Bus channel

05H: Ext. In channel

06H: CobraNet Bus channel

<Channel Number>

When Channel Attribute=00H: 00H - 21H (Audio In channel 1 - 34)

When Channel Attribute=01H: 00H - 1FH (Audio Out channel 1 - 32)

When Channel Attribute=02H: 00H - 0FH (CobraNet In channel 1 - 16)

When Channel Attribute=03H: 00H - 0FH (CobraNet Out channel 1 - 16)

When Channel Attribute=04H: 00H - 17H (Audio Bus channel 1 - 24)

When Channel Attribute=05H: 00H - 03H (Ext. In channel 1 - 4)

When Channel Attribute=06H: 00H - 0FH (CobraNet Bus channel 1 - 16)

<Step(U)>

UP: 40H - 42H (step upper 2 bits)

Down: 60H - 62H (step upper 2 bits)

<Step(L)>

00H - 7FH (step lower 7 bits)

Step range:

UP: 0.1dB – 30.0dB (0.1dB unit : 1 - 300)

Down: -0.1dB - -30.0dB (0.1dB unit : 1 - 300)

Example showing -10dB step down of Audio In channel 1 fader gain:

93H, 04H, 00H, 00H, 60H, 64H

● **Channel ON/OFF**

Set the input, bus and output channels to ON or OFF.

The D-2008SP transmits changed value data after receiving this command.

**92H, 03H, <Channel Attribute>, <Channel Number>, <ON/OFF>**

<Channel Attribute>

00H: Audio In channel

01H: Audio Out channel

02H: CobraNet In channel

03H: CobraNet Out channel

04H: Audio Bus channel

05H: Ext. In channel

06H: CobraNet Bus channel

<Channel Number>

When Channel Attribute=00H: 00H - 21H (Audio In channel 1 – 34)

When Channel Attribute=01H: 00H - 1FH (Audio Out channel 1 – 32)

When Channel Attribute=02H: 00H - 0FH (CobraNet In channel 1 – 16)

When Channel Attribute=03H: 00H - 0FH (CobraNet Out channel 1 – 16)

When Channel Attribute=04H: 00H - 17H (Audio Bus channel 1 – 24)

When Channel Attribute=05H: 00H - 03H (Ext. In channel 1 – 4)

When Channel Attribute=06H: 00H - 0FH (CobraNet Bus channel 1 – 16)

<ON/OFF>

00H: Channel OFF

01H: Channel ON

Example of setting Audio In channel 1 to ON:

92H, 03H, 00H, 00H, 01H

● **Line (stereo) select**

Set the line (stereo) select status for the D-936R or D-937SP.

The D-2008SP transmits changed value data after receiving this command.

**88H, 03H, <Slot Number>, <Line Number>, <ON/OFF>**

<Slot Attribute>

00H-07H: Input Slot Numbers 1 – 8

<Line Number>

00H-03H: Line Numbers 1 – 4

<ON/OFF>

00H: OFF

01H: ON

Example of setting Input Slot 1's Line 3 to ON

88H, 03H, 00H, 02H, 01H

● **Bus assignment**

Set the bus assignment (Input matrix crosspoint) to ON or OFF.

The D-2008SP transmits changed value data after receiving this command.

**94H, 05H, <Source Channel Attribute>, <Source Channel Number>, <Bus Channel Attribute>, <Bus Channel Number>, <ON/OFF>**

<Source Channel Attribute>

00H: Audio In channel

02H: CobraNet In channel

<Source Channel Number>

When Source Channel Attribute=00H: 00H - 21H (Audio In channel 1 - 34)

When Source Channel Attribute=02H: 00H - 0FH (CobraNet In channel 1 - 16)

<Bus Channel Attribute>

04H: Audio Bus channel

<Bus Channel Number>

When Bus Channel Attribute=04H: 00H - 17H (Audio Bus channel 1 - 24)

<ON/OFF>

00H: <Source channel> to <Bus channel> assign OFF

01H: <Source channel> to <Bus channel> assign ON

Example of setting the bus assignment from Audio In channel 1 to Audio bus channel 1 to ON:

94H, 05H, 00H, 00H, 04H, 00H, 01H

● **Input Matrix Crosspoint Gain**

Set the crosspoint gains by position.

The D-2008SP transmits changed value data after receiving this command.

**95H, 05H, <Source Channel Attribute>, <Source Channel Number>, <Bus Channel Attribute>, <Bus Channel Number>, <Value>**

<Source Channel Attribute>

00H: Audio In channel

02H: CobraNet In channel

<Source Channel Number>

When Source Channel Attribute=00H: 00H - 21H (Audio In channel 1 - 34)



When Source Channel Attribute=02H: 00H - 0FH (CobraNet In channel 1 - 16)

<Bus Channel Attribute>

04H: Audio Bus channel

<Bus Channel Number>

When Bus Channel Attribute=04H: 00H - 17H (Audio Bus channel 1 - 24)

<Value>

00~46H : For the relationship of position to gain (dB), refer to Value vs. Gain Table for crosspoint gain.

60~6FH : Position Down (1~16 Step Down)

70~7FH : Position Up (1~16 Step Up)

Example of setting the crosspoint gain from Audio In channel 1 to Audio Bus channel 1 to 0dB:

95H, 05H, 00H, 00H, 04H, 00H, 46H

Example showing 3-step Up of Audio In channel 1 to Audio Bus channel 1 crosspoint gain

95H, 05H, 00H, 00H, 04H, 00H, 72H

#### ● Output assignment

Set the output assignment (Output matrix crosspoint) to ON or OFF.

The D-2008SP transmits changed value data after receiving this command.

**96H, 05H, <Bus Channel Attribute>, <Bus Channel Number>, <Destination Channel Attribute>, <Destination Channel Number>, <ON/OFF>**

<Bus Channel Attribute>

04H: Audio Bus channel

05H: Ext. In channel

06H: CobraNet Bus channel

<Bus Channel Number>

When Bus Channel Attribute=04H: 00H - 17H (Audio Bus channel 1 - 24)

When Bus Channel Attribute=05H: 00H - 03H (Ext. In channel 1 - 4)

When Bus Channel Attribute=06H: 00H - 0FH (CobraNet Bus channel 1 - 16)

< Destination Channel Attribute>

01H: Audio Out channel

03H: CobraNet Out channel

< Destination Channel Number>

When Destination Channel Attribute=01H: 00H - 1FH (Audio Out channel 1 - 32)

When Destination Channel Attribute=03H: 00H - 0FH (CobraNet Out channel 1 - 16)

<ON/OFF>

00H: < Bus channel> to <Destination channel> assign OFF

01H: < Bus channel> to <Destination channel> assign ON

Example of setting the output assignment from Audio Bus channel 1 to Audio Out channel 1 to ON:

96H, 05H, 04H, 00H, 01H, 00H, 01H

● **Output Matrix Crosspoint Gain**

Set the crosspoint gains by position.

The D-2008SP transmits changed value data after receiving this command.

**97H, 05H, <Bus Channel Attribute>, <Bus Channel Number>, <Destination Channel Attribute>, <Destination Channel Number>, <Value>**

<Bus Channel Attribute>

04H: Audio Bus channel

05H: Ext. In channel

06H: CobraNet Bus channel

<Bus Channel Number>

When Bus Channel Attribute=04H: 00H - 17H (Audio Bus channel 1 - 24)

When Bus Channel Attribute=05H: 00H - 03H (Ext. In channel 1 - 4)

When Bus Channel Attribute=06H: 00H - 0FH (CobraNet Bus channel 1 - 16)

< Destination Channel Attribute>

01H: Audio Out channel

03H: CobraNet Out channel

< Destination Channel Number>

When Destination Channel Attribute=01H: 00H - 1FH (Audio Out channel 1 - 32)

When Destination Channel Attribute=03H: 00H - 0FH (CobraNet Out channel 1 - 16)

<Value>

00~46H : For the relationship of position to gain (dB), refer to Value vs. Gain Table for crosspoint gain.

60~6FH : Position Down (1-16 Step Down)

70~7FH : Position Up (1-16 Step Up)

Example of setting the crosspoint gain from Audio Bus channel 1 to Audio Out channel 1 to 0dB:

97H, 05H, 04H, 00H, 01H, 00H, 46H

Example showing 3-step Up of Audio Bus channel 1 to Audio Out channel 1 crosspoint gain

97H, 05H, 04H, 00H, 01H, 00H, 72H

◇ **Fader Group**

Set the Fader Group of the input, bus and output channels.

When a group number is already set, it is necessary to set other numbers after changing it to 0 once.

In the case of a stereo channel, the R channel side does not accept a command.

The D-2008SP transmits changed value data after receiving this command.

**9AH, 03H, <Channel Attribute>, <Channel Number>, <Group Number>**

<Channel Attribute>

00H: Audio In channel

01H: Audio Out channel

02H: CobraNet In channel  
03H: CobraNet Out channel  
04H: Audio Bus channel  
05H: Ext. In channel  
06H: CobraNet Bus channel

<Channel Number>

When Channel Attribute=00H: 00H - 21H (Audio In channel 1 - 34)  
When Channel Attribute=01H: 00H - 1FH (Audio Out channel 1 - 32)  
When Channel Attribute=02H: 00H - 0FH (CobraNet In channel 1 - 16)  
When Channel Attribute=03H: 00H - 0FH (CobraNet Out channel 1 - 16)  
When Channel Attribute=04H: 00H - 17H (Audio Bus channel 1 - 24)  
When Channel Attribute=05H: 00H - 03H (Ext. In channel 1 - 4)  
When Channel Attribute=06H: 00H - 0FH (CobraNet Bus channel 1 - 16)

<Group Number>

0: Group OFF  
1-127: Group ON

Example of setting Audio In channel 1 to Group 1:

9AH, 03H, 00H, 00H, 01H

◇ **Fader Group Fine Trim**

Set the Fader Group Fine Trim of the input, bus and output channels.

For the relationship of position to fine trim (dB), refer to the Position vs. Fine Group Trim Table for Fader.

Note: It's different form the Position vs. Fine Gain Table for Fader.

As for the trim setting, a fader group number is invalid in the case of 0.

In the case of a stereo channel, the R channel side does not accept a command.

The D-2008SP transmits changed value data after receiving this command.

**9BH, 04H, <Channel Attribute>, <Channel Number>, <Position(U)>, <Position(L)>**

<Channel Attribute>

00H: Audio In channel  
01H: Audio Out channel  
02H: CobraNet In channel  
03H: CobraNet Out channel  
04H: Audio Bus channel  
05H: Ext. In channel  
06H: CobraNet Bus channel

<Channel Number>

When Channel Attribute=00H: 00H - 21H (Audio In channel 1 - 34)  
When Channel Attribute=01H: 00H - 1FH (Audio Out channel 1 - 32)

When Channel Attribute=02H: 00H - 0FH (CobraNet In channel 1 - 16)

When Channel Attribute=03H: 00H - 0FH (CobraNet Out channel 1 - 16)

When Channel Attribute=04H: 00H - 17H (Audio Bus channel 1 - 24)

When Channel Attribute=05H: 00H - 03H (Ext. In channel 1 - 4)

When Channel Attribute=06H: 00H - 0FH (CobraNet Bus channel 1 - 16)

<Position(U)>

00H - 07H (Upper 3 bits)

<Position(L)>

00H - 7FH (Lower 7 bits)

Trim range : -INF - +10dB, (0.1dB unit, Position 0 - 900)

Example of setting Audio In channel 1 fader group trim to 0 dB:

9BH, 04H, 00H, 00H, 06H, 20H

● **Channel Mute ON/OFF**

Set the output channels to ON or OFF.

The D-2008SP transmits changed value data after receiving this command.

**98H, 03H, <Channel Attribute>, <Channel Number>, <ON/OFF>**

<Channel Attribute>

01H: Audio Out channel

03H: CobraNet Out channel

<Channel Number>

When Channel Attribute=01H: 00H - 1FH (Audio Out channel 1 - 32)

When Channel Attribute=03H: 00H - 0FH (CobraNet Out channel 1 - 16)

<ON/OFF>

00H: Channel OFF

01H: Channel ON

Example of setting Audio Output channel 1 to Mute ON:

98H, 03H, 01H, 00H, 01H

● **Preset Memory Recall**

Recall desired preset memories.

The D-2008SP transmits changed preset memory number after receiving this command.

**F1H, 02H, 00H, <Preset Memory Number>**

<Preset Memory Number>

00H - 1FH: Preset Memory Numbers 1 - 32

Example of recalling Preset Memory 1:

F1H, 02H, 00H, 00H

- **Fader Layer Recall**

Recall desired fader layer.

Layers that have not been assigned to the console function keys are able to be recalled.

The D-2008SP transmits changed fader layer number after receiving this command.

**C0H, 02H, <Console Number>, <Layer Number>**

<Console Number>

00H - 03H: Console ID 1 - 4

<Layer Number>

00H - 03H: Layer Number 1 - 4

- **External Control Switch LED Indication**

Set the External Control Switch's LED indication to ON or OFF.

The D-2008SP transmits changed LED Indication status after receiving this command.

**C1H, 03H, <Console Number>, <Key Number>, <ON/OFF>**

<Console Number>

00H - 03H: Console ID 1 - 4

<Key Number>

00H - 07H: Function Key 1 - 8

<ON/OFF>

00H: LED OFF (Unlit)

01H: LED ON (Lit)

- **Auto Status Notification Start/Stop**

Set the Auto Status Notification ON or OFF without Gate Status.

**F2H, 02H, 00H, <ON/OFF>**

<ON/OFF>

00H: OFF (Auto Status Notification Stop)

01H: ON (Auto Status Notification Start)

- **Gate Status Notification Start/Stop**

Set the Gate Status Notification ON or OFF.

**F2H, 02H, 01H, <ON/OFF>**

<ON/OFF>

00H: OFF (Gate Status Notification Stop)

01H: ON (Gate Status Notification Start)

■ **Status Request Command**

● **Status Request(Channel fader gain position)**

This command requests the D-2008SP to send its current channel fader gain position setting data.

The D-2008SP informs the current gain position.

**F0H, 03H, 11H, <Channel Attribute>, <Channel Number>**

<Channel Attribute>

00H: Audio In channel

01H: Audio Out channel

02H: CobraNet In channel

03H: CobraNet Out channel

04H: Audio Bus channel

05H: Ext. In channel

06H: CobraNet Bus channel

<Channel Number>

When Channel Attribute=00H: 00H - 21H (Audio In channel 1 - 34)

When Channel Attribute=01H: 00H - 1FH (Audio Out channel 1 - 32)

When Channel Attribute=02H: 00H - 0FH (CobraNet In channel 1 - 16)

When Channel Attribute=03H: 00H - 0FH (CobraNet Out channel 1 - 16)

When Channel Attribute=04H: 00H - 17H (Audio Bus channel 1 - 24)

When Channel Attribute=05H: 00H - 03H (Ext. In channel 1 - 4)

When Channel Attribute=06H: 00H - 0FH (CobraNet Bus channel 1 - 16)

Example of requesting Audio In channel 1's fader gain position value data:

F0H, 03H, 11H, 00H, 00H

● **Status Request (Channel ON/OFF)**

This command requests the D-2008SP to send its current channel ON/OFF setting status data.

The D-2008SP informs the current ON/OFF setting status.

**F0H, 03H, 12H, <Channel Attribute>, <Channel Number>**

<Channel Attribute>

00H: Audio In channel

01H: Audio Out channel

02H: CobraNet In channel

03H: CobraNet Out channel

04H: Audio Bus channel

05H: Ext. In channel

06H: CobraNet Bus channel

<Channel Number>

When Channel Attribute=00H: 00H - 21H (Audio In channel 1 - 34)

When Channel Attribute=01H: 00H - 1FH (Audio Out channel 1 - 32)

When Channel Attribute=02H: 00H - 0FH (CobraNet In channel 1 - 16)

When Channel Attribute=03H: 00H - 0FH (CobraNet Out channel 1 - 16)

When Channel Attribute=04H: 00H - 17H (Audio Bus channel 1 - 24)

When Channel Attribute=05H: 00H - 03H (Ext. In channel 1 - 4)

When Channel Attribute=06H: 00H - 0FH (CobraNet Bus channel 1 - 16)

Example of requesting Audio In channel 1's ON/OFF setting status data:

F0H, 03H, 12H, 00H, 00H

- **Status request (Line Select)**

This command requests to send the current line select ON/OFF setting status data on the D-2008SP side.

The D-2008SP transmits the current line select ON/OFF setting status data.

**F0H, 03H, 08H, <Slot Number>, <Line Number>**

<Slot Number>

00H - 07H: Input slot numbers 1 - 8

<Line number>

00H - 03H: Line numbers 1 - 4 (All line numbers for each slot)

Example of requesting the ON/OFF setting status data for Input 4 of the module in Slot 6

F0H, 03H, 08H, 05H, 03H

- **Status Request (Bus assignment)**

This command requests the D-2008SP to send its current bus assignment setting data.

The D-2008SP informs the current bus assignment setting status.

**F0H, 05H, 14H, <Source Channel Attribute>, <Source Channel Number>, <Bus Channel Attribute>, <Bus Channel Number>**

Example of requesting Audio In channel 1 to Audio Bus channel 1 bus assignment setting data:

F0H, 05H, 14H, 00H, 00H, 04H, 00H

- **Status Request (Input Crosspoint Gain)**

This command requests the D-2008SP to send its current crosspoint gain setting data.

The D-2008SP informs the current crosspoint gain setting status.

**F0H, 05H, 15H, <Source Channel Attribute>, <Source Channel Number>, <Bus Channel Attribute>, <Bus Channel Number>**

Example of requesting Audio In channel 1 to Audio Bus channel 1 crosspoint gain setting data:

F0H, 05H, 15H, 00H, 00H, 04H, 00H

- **Status Request (Output assignment)**

This command requests the D-2008SP to send its current output assignment setting data.

The D-2008SP informs the current output assignment setting status.

**F0H, 05H, 16H, <Bus Channel Attribute>, <Bus Channel Number>, < Destination Channel Attribute>, < Destination Channel Number>**

Example of requesting Audio Bus channel 1 to Audio Out channel 1 output assignment setting data:

F0H, 05H, 16H, 04H, 00H, 01H, 00H

● **Status Request (Output Crosspoint Gain)**

This command requests the D-2008SP to send its current crosspoint gain setting data.

The D-2008SP informs the current crosspoint gain setting status.

**F0H, 05H, 17H, <Bus Channel Attribute>, <Bus Channel Number>, < Destination Channel Attribute>, < Destination Channel Number>**

Example of requesting Audio Bus channel 1 to Audio Out channel 1 crosspoint gain setting data:

F0H, 05H, 17H, 04H, 00H, 01H, 00H

◇ **Status Request (Fader Group)**

This command requests the D-2008SP to send its fader group setting status data.

The D-2008SP informs the current fader group setting status.

**F0H, 03H, 1AH, <Channel Attribute>, <Channel Number>**

<Channel Attribute>

00H: Audio In channel

01H: Audio Out channel

02H: CobraNet In channel

03H: CobraNet Out channel

04H: Audio Bus channel

05H: Ext. In channel

06H: CobraNet Bus channel

<Channel Number>

When Channel Attribute=00H: 00H - 21H (Audio In channel 1 - 34)

When Channel Attribute=01H: 00H - 1FH (Audio Out channel 1 - 32)

When Channel Attribute=02H: 00H - 0FH (CobraNet In channel 1 - 16)

When Channel Attribute=03H: 00H - 0FH (CobraNet Out channel 1 - 16)

When Channel Attribute=04H: 00H - 17H (Audio Bus channel 1 - 24)

When Channel Attribute=05H: 00H - 03H (Ext. In channel 1 - 4)

When Channel Attribute=06H: 00H - 0FH (CobraNet Bus channel 1 - 16)

Example of requesting Audio In channel 1's Fader Group setting status data:

F0H, 03H, 1AH, 00H, 00H

◇ **Status Request (Fader Group Fine Trim)**



This command requests the D-2008SP to send its fader group fine trim setting status data.

The D-2008SP informs the current fader group fine trim setting status.

**F0H, 03H, 1BH, <Channel Attribute>, <Channel Number>**

<Channel Attribute>

00H: Audio In channel

01H: Audio Out channel

02H: CobraNet In channel

03H: CobraNet Out channel

04H: Audio Bus channel

05H: Ext. In channel

06H: CobraNet Bus channel

<Channel Number>

When Channel Attribute=00H: 00H - 21H (Audio In channel 1 - 34)

When Channel Attribute=01H: 00H - 1FH (Audio Out channel 1 - 32)

When Channel Attribute=02H: 00H - 0FH (CobraNet In channel 1 - 16)

When Channel Attribute=03H: 00H - 0FH (CobraNet Out channel 1 - 16)

When Channel Attribute=04H: 00H - 17H (Audio Bus channel 1 - 24)

When Channel Attribute=05H: 00H - 03H (Ext. In channel 1 - 4)

When Channel Attribute=06H: 00H - 0FH (CobraNet Bus channel 1 - 16)

Example of requesting Audio In channel 1's Fader Group Fine Trim setting status data:

F0H, 03H, 1BH, 00H, 00H

● **Status Request (Gate Status)**

This command requests the D-2008SP to send its current gate OPEN/CLOSE status data.

The D-2008SP informs the current gate OPEN/CLOSE status data.

**F0H, 03H, 66H, <Channel Attribute>, <Channel Number>**

<Channel Attribute>

00H: Audio In channel

<Channel Number>

When Channel Attribute=00H: 00H - 21H (Audio In channel 1 - 34)

Example of requesting Audio in channel 1's gate OPEN/CLOSE status data:

F0H, 03H, 66H, 00H, 00H

● **Status Request (Channel Mute ON/OFF)**

This command requests the D-2008SP to send its current channel Mute ON/OFF setting status data.

The D-2008SP informs the current Mute ON/OFF setting status.

**F0H, 03H, 18H, <Channel Attribute>, <Channel Number>**

<Channel Attribute>

01H: Audio Out channel

03H: CobraNet Out channel

<Channel Number>

When Channel Attribute=01H: 00H - 1FH (Audio Out channel 1 - 32)

When Channel Attribute=03H: 00H - 0FH (CobraNet Out channel 1 - 16)

Example of requesting Audio out channel 1's Mute ON/OFF setting status data:

F0H, 03H, 18H, 01H, 00H

- **Status Request (Current preset numbers)**

This command requests to send the D-2008SP's currently recalled preset number data.

The D-2008SP transmits the current preset number data.

**F0H, 02H, 71H, 00H**

- **Status request (Fader Layer Number)**

This command requests to send the D-2008SP's current Fader Layer Number status data.

The D-2008SP transmits the current Fader Layer Number status data.

**F0H, 02H, 40H, <Console Number>**

<Console Number>

00H - 03H: Console ID 1 - 4

- **Status request (External Control Switch LED Indication)**

This command requests to send the D-2008SP's current External Control Switch LED Indication status data.

The D-2008SP transmits the current External Control Switch LED Indication status data.

**F0H, 03H, 41H, <Console Number>, <Key Number>**

<Console Number>

00H - 03H: Console ID 1 - 4

<Key Number>

00H - 07H: Function Key Number 1 - 8

■ **Status Information**

● **D-2008SP connection establishment status**

Status data is transmitted from the D-2008SP when the TCP connection is established.

**DFH, 01H, 01H**

● **Gate Status**

The D-2008SP transmits the current status data when Gate Status changed in Gate Status Notification started.

**E6H, 03H, 00H, <Channel Number>, <OPEN/CLOSE>**

<Channel Number>

00H - 21H (Audio In channel 1 - 34)

<OPEN/CLOSE>

00H: OPEN

01H: CLOSE

Example of the CLOSE status data of Audio Input 1

E6H, 03H, 00H, 00H, 01H

● **External Control Switch Press Status**

The D-2008SP transmits the current status data when Key Press Status changed in Auto Status Notification started.

It is necessary for Console Function Key to set External Control Switch setting.

**E6H, 04H, 01H, <Console Number>, <Key Number>, <ON/OFF>**

<Console Number>

00H - 03H: Console ID 1 - 4

<Key Number>

00H - 07H: Function Key 1 - 8

<ON/OFF>

00H: OFF

01H: ON

■ **Command List**

Function	Command Code
Channel fader gain (position)	91H, 03H, <Channel Attribute>, <Channel Number>, <Position>
Channel fader gain (step)	91H, 03H, <Channel Attribute>, <Channel Number>, <Step>
Channel fader fine gain (position)	93H, 04H, <Channel Attribute>, <Channel Number>, <Position(U)>, <Position(L)>
Channel fader fine gain (step)	93H, 04H, <Channel Attribute>, <Channel Number>, <Step(U)>, <Step(L)>
Channel ON/OFF	92H, 03H, <Channel Attribute>, <Channel Number>, <ON/OFF>
Line(Stereo) Select	88H, 03H, <Slot Number>, <Line Number>, <ON/OFF>
Bus assignment	94H, 05H, <Source Channel Attribute>, <Source Channel Number>, <Bus Channel Attribute>, <Bus Channel Number>, <ON/OFF>
Input Crosspoint Gain	95H, 05H, <Source Channel Attribute>, <Source Channel Number>, <Bus Channel Attribute>, <Bus Channel Number>, <Value>
Output assignment	96H, 05H, <Bus Channel Attribute>, <Bus Channel Number>, <Destination Channel Attribute>, <Destination Channel Number>, <ON/OFF>
Output Crosspoint Gain	97H, 05H, <Bus Channel Attribute>, <Bus Channel Number>, <Destination Channel Attribute>, <Destination Channel Number>, <Value>
Fader Group	9AH, 03H, <Channel Attribute>, <Channel Number>, <Group Number>
Fader Group Fine Trim	9BH, 04H, <Channel Attribute>, <Channel Number>, <Position(U)>, <Position(L)>
Channel Mute ON/OFF	98H, 03H, <Channel Attribute>, <Channel Number>, <ON/OFF>
Preset memory recall	F1H, 02H, 00H, <Preset Number>
Fader Layer Recall	C0H, 02H, <Console Number>, <Layer Number>
External Control Switch LED Indicator	C1H, 03H, <Console Number>, <Key Number>, <ON/OFF>
Auto Status Notification Start/Stop	F2H, 02H, 00H, <ON/OFF>
Gate Status Notification Start/Stop	F2H, 02H, 01H, <ON/OFF>
Status (channel fader gain)	F0H, 03H, 11H, <Channel Attribute>, <Channel Number>
Status (channel ON/OFF)	F0H, 03H, 12H, <Channel Attribute>, <Channel Number>
Status (Line Select)	F0H, 03H, 08H, <Slot Number>, <Line Number>
Status (Bus assignment)	F0H, 05H, 14H, <Source Channel Attribute>, <Source Channel Number>, < Bus Channel Attribute>, < Bus Channel Number>

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Status (Input Crosspoint Gain)	F0H, 05H, 15H, <Source Channel Attribute>, <Source Channel Number>, <Bus Channel Attribute>, <Bus Channel Number>
Status (Output assignment)	F0H, 05H, 16H, < Bus Channel Attribute>, < Bus Channel Number>, <Destination Channel Attribute>, <Destination Channel Number>
Status (Output Crosspoint Gain)	F0H, 05H, 17H, < Bus Channel Attribute>, < Bus Channel Number>, < Destination Channel Attribute>, < Destination Channel Number>
Status (Fader Group)	F0H, 03H, 1AH, <Channel Attribute>, <Channel Number>
Status (Fader Group Fine Trim)	F0H, 03H, 1BH, <Channel Attribute>, <Channel Number>
Status (Gate OPEN/CLOSE)	F0H, 03H, 66H, <Channel Attribute>, <Channel Number>
Status (Channel Mute ON/OFF)	F0H, 03H, 18H, <Channel Attribute>, <Channel Number>
Status (Preset)	F0H, 02H, 71H, 00H
Status (Fader Layer Number)	F0H, 02H, 40H, <Console Number>
Status (External Control Switch LED Indication)	F0H, 03H, 41H, <Console Number>, <Key Number>
D-2008SP Connection establishment status	DFH, 01H, 01H
Gate Status	E6H, 03H, 00H, <Channel Number >, <OPEN/CLOSE>
External Control Switch Press Status	E6H, 04H, 01H, <Console Number >, <Key Number>, <ON/OFF>

**■ Communication Examples**

<b>Command</b>	<b>Controller</b>	<b>D-2008SP Response</b>
Recall preset 1	F1H,02H,00H,00H	F1H,02H,00H,00H
Audio In ch1 Fader gain=0dB	91H,03H,00H,00H,2AH	91H,03H,00H,00H,2AH
Audio Out ch1 Fader gain=0dB	91H,03H,01H,00H,2AH	91H,03H,01H,00H,2AH
Audio In ch1 Fader gain=-INFdB	91H,03H,00H,00H,00H	91H,03H,00H,00H,00H
Audio In ch1 Fader gain 3step up	91H,03H,00H,00H,43H	91H,03H,00H,00H,2DH
Audio In ch1 Fader gain 3step down	91H,03H,00H,00H,63H	91H,03H,00H,00H,2AH
Audio In ch1 ON	92H,03H,00H,00H,01H	92H,03H,00H,00H,01H
Audio In ch1 OFF	92H,03H,00H,00H,00H	92H,03H,00H,00H,00H
Select Slot1 Line3 ON (Mix Mode)	88H,03H,00H,02H,01H	88H,03H,00H,02H,01H
Select Slot5 Line2 ON (Select Mode)	88H,03H,04H,01H,01H	88H,03H,04H,01H,01H
Bus: Audio In ch1 to Audio Bus ch1 ON	94H,05H,00H,00H,04H,00H,01H	94H,05H,00H,00H,04H,00H,01H
Bus: Audio In ch1 to Audio Busch1 0dB	95H,05H,00H,00H,04H,00H,46H	95H,05H,00H,00H,04H,00H,46H
Bus: Audio In ch1 to Audio Bus ch1 1step up	95H,05H,00H,00H,04H,00H,70H	95H,05H,00H,00H,04H,00H,01H
Bus: Audio Bus ch1 to Audio Out ch1 ON	96H,05H,04H,00H,01H,00H,01H	96H,05H,04H,00H,01H,00H,01H
Bus: Audio Bus ch1 to Audio Out ch1 0dB	97H,05H,04H,00H,01H,00H,46H	97H,05H,04H,00H,01H,00H,46H
Bus: Audio Bus ch1 to Audio Out ch1 1step up	97H,05H,04H,00H,01H,00H,70H	95H,05H,04H,00H,01H,00H,01H
Request Audio In ch1 Fader gain setting	F0H,03H,11H,00H,00H	91H,03H,00H,00H,2AH
Request Audio In ch1 Channel On/Off	F0H,03H,12H,00H,00H	92H,03H,00H,00H,01H
Request Slot1 Line3 Select	F0H,03H,08H,00H,02H	88H,03H,00H,02H,01H
Request Preset Number	F0H,02H,71H,00H	F1H,02H,00H,01H
Request bus assign setting of Audio In ch1 to Audio Bus ch1	F0H,05H,14H,00H,00H,04H,00H	94H,05H,00H,00H,04H,00H,01H
Request input crosspoint gain setting of Audio In ch1 to Audio Bus ch1	F0H,05H,15H,00H,00H,01H,00H	95H,05H,00H,00H,01H,00H,46H

■ Position vs Gain Table for Fader

Position	Gain(dB)	Position	Gain(dB)	Position	Gain(dB)	Position	Gain(dB)				
00H	0	-INF	10H	16	-19.0	20H	32	- 4.5	30H	48	2.5
01H	1	-60.0	11H	17	-18.0	21H	33	- 4.0	31H	49	3.0
02H	2	-54.0	12H	18	-17.0	22H	34	- 3.5	32H	50	3.5
03H	3	-48.0	13H	19	-16.0	23H	35	- 3.0	33H	51	4.0
04H	4	-42.0	14H	20	-15.0	24H	36	- 2.5	34H	52	4.5
05H	5	-36.0	15H	21	-14.0	25H	37	- 2.0	35H	53	5.0
06H	6	-33.0	16H	22	-13.0	26H	38	- 1.5	36H	54	5.5
07H	7	-30.0	17H	23	-12.0	27H	39	- 1.0	37H	55	6.0
08H	8	-27.0	18H	24	-11.0	28H	40	- 0.5	38H	56	6.5
09H	9	-26.0	19H	25	-10.0	29H	41	0.0	39H	57	7.0
0AH	10	-25.0	1AH	26	- 9.0	2AH	42	0.0	3AH	58	7.5
0BH	11	-24.0	1BH	27	- 8.0	2BH	43	0.0	3BH	59	8.0
0CH	12	-23.0	1CH	28	- 7.0	2CH	44	0.5	3CH	60	8.5
0DH	13	-22.0	1DH	29	- 6.0	2DH	45	1.0	3DH	61	9.0
0EH	14	-21.0	1EH	30	- 5.5	2EH	46	1.5	3EH	62	9.5
0FH	15	-20.0	1FH	31	- 5.0	2FH	47	2.0	3FH	63	10.0

■ Value vs Gain Table for Crosspoint gain

Value	Gain(dB)	Value	Gain(dB)	Value	Gain(dB)	Value	Gain(dB)				
00H	0	-INF	10H	16	-54	20H	32	-38	30H	48	-22
01H	1	-69	11H	17	-53	21H	33	-37	31H	49	-21
02H	2	-68	12H	18	-52	22H	34	-36	32H	50	-20
03H	3	-67	13H	19	-51	23H	35	-35	33H	51	-19
04H	4	-66	14H	20	-50	24H	36	-34	34H	52	-18
05H	5	-65	15H	21	-49	25H	37	-33	35H	53	-17
06H	6	-64	16H	22	-48	26H	38	-32	36H	54	-16
07H	7	-63	17H	23	-47	27H	39	-31	37H	55	-15
08H	8	-62	18H	24	-46	28H	40	-30	38H	56	-14
09H	9	-61	19H	25	-45	29H	41	-29	39H	57	-13
0AH	10	-60	1AH	26	-44	2AH	42	-28	3AH	58	-12
0BH	11	-59	1BH	27	-43	2BH	43	-27	3BH	59	-11
0CH	12	-58	1CH	28	-42	2CH	44	-26	3CH	60	-10
0DH	13	-57	1DH	29	-41	2DH	45	-25	3DH	61	-9
0EH	14	-56	1EH	30	-40	2EH	46	-24	3EH	62	-8
0FH	15	-55	1FH	31	-39	2FH	47	-23	3FH	63	-7
Value	Gain(dB)	Value		Value	Step Down	Value	Step Up				
40H	64	-6	50H	80	reserved	60H	96	1step	70H	112	1step
41H	65	-5	51H	81	reserved	61H	97	2step	71H	113	2step
42H	66	-4	52H	82	reserved	62H	98	3step	72H	114	3step
43H	67	-3	53H	83	reserved	63H	99	4step	73H	115	4step
44H	68	-2	54H	84	reserved	64H	100	5step	74H	116	5step
45H	69	-1	55H	85	reserved	65H	101	6step	75H	117	6step
46H	70	0	56H	86	reserved	66H	102	7step	76H	118	7step
47H	71	reserved	57H	87	reserved	67H	103	8step	77H	119	8step
48H	72	reserved	58H	88	reserved	68H	104	9step	78H	120	9step
49H	73	reserved	59H	89	reserved	69H	105	10step	79H	121	10step
4AH	74	reserved	5AH	90	reserved	6AH	106	11step	7AH	122	11step
4BH	75	reserved	5BH	91	reserved	6BH	107	12step	7BH	123	12step
4CH	76	reserved	5CH	92	reserved	6CH	108	13step	7CH	124	13step
4DH	77	reserved	5DH	93	reserved	6DH	109	14step	7DH	125	14step
4EH	78	reserved	5EH	94	reserved	6EH	110	15step	7EH	126	15step
4FH	79	reserved	5FH	95	reserved	6FH	111	16step	7FH	127	16step

■ Position vs Fine Gain Table for Fader

Position			Gain(dB)	Position			Gain(dB)	Position			Gain(dB)	Position			Gain(dB)
U	L			U	L			U	L			U	L		
0	00H	00H	-∞dB	50	00H	32H	-65.0dB	100	00H	64H	-60.0dB	150	01H	16H	-55.0dB
1	00H	01H	-69.9dB	51	00H	33H	-64.9dB	101	00H	65H	-59.9dB	151	01H	17H	-54.9dB
2	00H	02H	-69.8dB	52	00H	34H	-64.8dB	102	00H	66H	-59.8dB	152	01H	18H	-54.8dB
3	00H	03H	-69.7dB	53	00H	35H	-64.7dB	103	00H	67H	-59.7dB	153	01H	19H	-54.7dB
4	00H	04H	-69.6dB	54	00H	36H	-64.6dB	104	00H	68H	-59.6dB	154	01H	1AH	-54.6dB
5	00H	05H	-69.5dB	55	00H	37H	-64.5dB	105	00H	69H	-59.5dB	155	01H	1BH	-54.5dB
6	00H	06H	-69.4dB	56	00H	38H	-64.4dB	106	00H	6AH	-59.4dB	156	01H	1CH	-54.4dB
7	00H	07H	-69.3dB	57	00H	39H	-64.3dB	107	00H	6BH	-59.3dB	157	01H	1DH	-54.3dB
8	00H	08H	-69.2dB	58	00H	3AH	-64.2dB	108	00H	6CH	-59.2dB	158	01H	1EH	-54.2dB
9	00H	09H	-69.1dB	59	00H	3BH	-64.1dB	109	00H	6DH	-59.1dB	159	01H	1FH	-54.1dB
10	00H	0AH	-69.0dB	60	00H	3CH	-64.0dB	110	00H	6EH	-59.0dB	160	01H	20H	-54.0dB
11	00H	0BH	-68.9dB	61	00H	3DH	-63.9dB	111	00H	6FH	-58.9dB	161	01H	21H	-53.9dB
12	00H	0CH	-68.8dB	62	00H	3EH	-63.8dB	112	00H	70H	-58.8dB	162	01H	22H	-53.8dB
13	00H	0DH	-68.7dB	63	00H	3FH	-63.7dB	113	00H	71H	-58.7dB	163	01H	23H	-53.7dB
14	00H	0EH	-68.6dB	64	00H	40H	-63.6dB	114	00H	72H	-58.6dB	164	01H	24H	-53.6dB
15	00H	0FH	-68.5dB	65	00H	41H	-63.5dB	115	00H	73H	-58.5dB	165	01H	25H	-53.5dB
16	00H	10H	-68.4dB	66	00H	42H	-63.4dB	116	00H	74H	-58.4dB	166	01H	26H	-53.4dB
17	00H	11H	-68.3dB	67	00H	43H	-63.3dB	117	00H	75H	-58.3dB	167	01H	27H	-53.3dB
18	00H	12H	-68.2dB	68	00H	44H	-63.2dB	118	00H	76H	-58.2dB	168	01H	28H	-53.2dB
19	00H	13H	-68.1dB	69	00H	45H	-63.1dB	119	00H	77H	-58.1dB	169	01H	29H	-53.1dB
20	00H	14H	-68.0dB	70	00H	46H	-63.0dB	120	00H	78H	-58.0dB	170	01H	2AH	-53.0dB
21	00H	15H	-67.9dB	71	00H	47H	-62.9dB	121	00H	79H	-57.9dB	171	01H	2BH	-52.9dB
22	00H	16H	-67.8dB	72	00H	48H	-62.8dB	122	00H	7AH	-57.8dB	172	01H	2CH	-52.8dB
23	00H	17H	-67.7dB	73	00H	49H	-62.7dB	123	00H	7BH	-57.7dB	173	01H	2DH	-52.7dB
24	00H	18H	-67.6dB	74	00H	4AH	-62.6dB	124	00H	7CH	-57.6dB	174	01H	2EH	-52.6dB
25	00H	19H	-67.5dB	75	00H	4BH	-62.5dB	125	00H	7DH	-57.5dB	175	01H	2FH	-52.5dB
26	00H	1AH	-67.4dB	76	00H	4CH	-62.4dB	126	00H	7EH	-57.4dB	176	01H	30H	-52.4dB
27	00H	1BH	-67.3dB	77	00H	4DH	-62.3dB	127	00H	7FH	-57.3dB	177	01H	31H	-52.3dB
28	00H	1CH	-67.2dB	78	00H	4EH	-62.2dB	128	01H	00H	-57.2dB	178	01H	32H	-52.2dB
29	00H	1DH	-67.1dB	79	00H	4FH	-62.1dB	129	01H	01H	-57.1dB	179	01H	33H	-52.1dB
30	00H	1EH	-67.0dB	80	00H	50H	-62.0dB	130	01H	02H	-57.0dB	180	01H	34H	-52.0dB
31	00H	1FH	-66.9dB	81	00H	51H	-61.9dB	131	01H	03H	-56.9dB	181	01H	35H	-51.9dB
32	00H	20H	-66.8dB	82	00H	52H	-61.8dB	132	01H	04H	-56.8dB	182	01H	36H	-51.8dB
33	00H	21H	-66.7dB	83	00H	53H	-61.7dB	133	01H	05H	-56.7dB	183	01H	37H	-51.7dB
34	00H	22H	-66.6dB	84	00H	54H	-61.6dB	134	01H	06H	-56.6dB	184	01H	38H	-51.6dB
35	00H	23H	-66.5dB	85	00H	55H	-61.5dB	135	01H	07H	-56.5dB	185	01H	39H	-51.5dB
36	00H	24H	-66.4dB	86	00H	56H	-61.4dB	136	01H	08H	-56.4dB	186	01H	3AH	-51.4dB
37	00H	25H	-66.3dB	87	00H	57H	-61.3dB	137	01H	09H	-56.3dB	187	01H	3BH	-51.3dB
38	00H	26H	-66.2dB	88	00H	58H	-61.2dB	138	01H	0AH	-56.2dB	188	01H	3CH	-51.2dB
39	00H	27H	-66.1dB	89	00H	59H	-61.1dB	139	01H	0BH	-56.1dB	189	01H	3DH	-51.1dB
40	00H	28H	-66.0dB	90	00H	5AH	-61.0dB	140	01H	0CH	-56.0dB	190	01H	3EH	-51.0dB
41	00H	29H	-65.9dB	91	00H	5BH	-60.9dB	141	01H	0DH	-55.9dB	191	01H	3FH	-50.9dB
42	00H	2AH	-65.8dB	92	00H	5CH	-60.8dB	142	01H	0EH	-55.8dB	192	01H	40H	-50.8dB
43	00H	2BH	-65.7dB	93	00H	5DH	-60.7dB	143	01H	0FH	-55.7dB	193	01H	41H	-50.7dB
44	00H	2CH	-65.6dB	94	00H	5EH	-60.6dB	144	01H	10H	-55.6dB	194	01H	42H	-50.6dB
45	00H	2DH	-65.5dB	95	00H	5FH	-60.5dB	145	01H	11H	-55.5dB	195	01H	43H	-50.5dB
46	00H	2EH	-65.4dB	96	00H	60H	-60.4dB	146	01H	12H	-55.4dB	196	01H	44H	-50.4dB
47	00H	2FH	-65.3dB	97	00H	61H	-60.3dB	147	01H	13H	-55.3dB	197	01H	45H	-50.3dB
48	00H	30H	-65.2dB	98	00H	62H	-60.2dB	148	01H	14H	-55.2dB	198	01H	46H	-50.2dB
49	00H	31H	-65.1dB	99	00H	63H	-60.1dB	149	01H	15H	-55.1dB	199	01H	47H	-50.1dB



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Position			Gain(dB)	Position			Gain(dB)	Position			Gain(dB)	Position			Gain(dB)
U	L			U	L			U	L			U	L		
200	01H	48H	-50.0dB	250	01H	7AH	-45.0dB	300	02H	2CH	-40.0dB	350	02H	5EH	-35.0dB
201	01H	49H	-49.9dB	251	01H	7BH	-44.9dB	301	02H	2DH	-39.9dB	351	02H	5FH	-34.9dB
202	01H	4AH	-49.8dB	252	01H	7CH	-44.8dB	302	02H	2EH	-39.8dB	352	02H	60H	-34.8dB
203	01H	4BH	-49.7dB	253	01H	7DH	-44.7dB	303	02H	2FH	-39.7dB	353	02H	61H	-34.7dB
204	01H	4CH	-49.6dB	254	01H	7EH	-44.6dB	304	02H	30H	-39.6dB	354	02H	62H	-34.6dB
205	01H	4DH	-49.5dB	255	01H	7FH	-44.5dB	305	02H	31H	-39.5dB	355	02H	63H	-34.5dB
206	01H	4EH	-49.4dB	256	02H	00H	-44.4dB	306	02H	32H	-39.4dB	356	02H	64H	-34.4dB
207	01H	4FH	-49.3dB	257	02H	01H	-44.3dB	307	02H	33H	-39.3dB	357	02H	65H	-34.3dB
208	01H	50H	-49.2dB	258	02H	02H	-44.2dB	308	02H	34H	-39.2dB	358	02H	66H	-34.2dB
209	01H	51H	-49.1dB	259	02H	03H	-44.1dB	309	02H	35H	-39.1dB	359	02H	67H	-34.1dB
210	01H	52H	-49.0dB	260	02H	04H	-44.0dB	310	02H	36H	-39.0dB	360	02H	68H	-34.0dB
211	01H	53H	-48.9dB	261	02H	05H	-43.9dB	311	02H	37H	-38.9dB	361	02H	69H	-33.9dB
212	01H	54H	-48.8dB	262	02H	06H	-43.8dB	312	02H	38H	-38.8dB	362	02H	6AH	-33.8dB
213	01H	55H	-48.7dB	263	02H	07H	-43.7dB	313	02H	39H	-38.7dB	363	02H	6BH	-33.7dB
214	01H	56H	-48.6dB	264	02H	08H	-43.6dB	314	02H	3AH	-38.6dB	364	02H	6CH	-33.6dB
215	01H	57H	-48.5dB	265	02H	09H	-43.5dB	315	02H	3BH	-38.5dB	365	02H	6DH	-33.5dB
216	01H	58H	-48.4dB	266	02H	0AH	-43.4dB	316	02H	3CH	-38.4dB	366	02H	6EH	-33.4dB
217	01H	59H	-48.3dB	267	02H	0BH	-43.3dB	317	02H	3DH	-38.3dB	367	02H	6FH	-33.3dB
218	01H	5AH	-48.2dB	268	02H	0CH	-43.2dB	318	02H	3EH	-38.2dB	368	02H	70H	-33.2dB
219	01H	5BH	-48.1dB	269	02H	0DH	-43.1dB	319	02H	3FH	-38.1dB	369	02H	71H	-33.1dB
220	01H	5CH	-48.0dB	270	02H	0EH	-43.0dB	320	02H	40H	-38.0dB	370	02H	72H	-33.0dB
221	01H	5DH	-47.9dB	271	02H	0FH	-42.9dB	321	02H	41H	-37.9dB	371	02H	73H	-32.9dB
222	01H	5EH	-47.8dB	272	02H	10H	-42.8dB	322	02H	42H	-37.8dB	372	02H	74H	-32.8dB
223	01H	5FH	-47.7dB	273	02H	11H	-42.7dB	323	02H	43H	-37.7dB	373	02H	75H	-32.7dB
224	01H	60H	-47.6dB	274	02H	12H	-42.6dB	324	02H	44H	-37.6dB	374	02H	76H	-32.6dB
225	01H	61H	-47.5dB	275	02H	13H	-42.5dB	325	02H	45H	-37.5dB	375	02H	77H	-32.5dB
226	01H	62H	-47.4dB	276	02H	14H	-42.4dB	326	02H	46H	-37.4dB	376	02H	78H	-32.4dB
227	01H	63H	-47.3dB	277	02H	15H	-42.3dB	327	02H	47H	-37.3dB	377	02H	79H	-32.3dB
228	01H	64H	-47.2dB	278	02H	16H	-42.2dB	328	02H	48H	-37.2dB	378	02H	7AH	-32.2dB
229	01H	65H	-47.1dB	279	02H	17H	-42.1dB	329	02H	49H	-37.1dB	379	02H	7BH	-32.1dB
230	01H	66H	-47.0dB	280	02H	18H	-42.0dB	330	02H	4AH	-37.0dB	380	02H	7CH	-32.0dB
231	01H	67H	-46.9dB	281	02H	19H	-41.9dB	331	02H	4BH	-36.9dB	381	02H	7DH	-31.9dB
232	01H	68H	-46.8dB	282	02H	1AH	-41.8dB	332	02H	4CH	-36.8dB	382	02H	7EH	-31.8dB
233	01H	69H	-46.7dB	283	02H	1BH	-41.7dB	333	02H	4DH	-36.7dB	383	02H	7FH	-31.7dB
234	01H	6AH	-46.6dB	284	02H	1CH	-41.6dB	334	02H	4EH	-36.6dB	384	03H	00H	-31.6dB
235	01H	6BH	-46.5dB	285	02H	1DH	-41.5dB	335	02H	4FH	-36.5dB	385	03H	01H	-31.5dB
236	01H	6CH	-46.4dB	286	02H	1EH	-41.4dB	336	02H	50H	-36.4dB	386	03H	02H	-31.4dB
237	01H	6DH	-46.3dB	287	02H	1FH	-41.3dB	337	02H	51H	-36.3dB	387	03H	03H	-31.3dB
238	01H	6EH	-46.2dB	288	02H	20H	-41.2dB	338	02H	52H	-36.2dB	388	03H	04H	-31.2dB
239	01H	6FH	-46.1dB	289	02H	21H	-41.1dB	339	02H	53H	-36.1dB	389	03H	05H	-31.1dB
240	01H	70H	-46.0dB	290	02H	22H	-41.0dB	340	02H	54H	-36.0dB	390	03H	06H	-31.0dB
241	01H	71H	-45.9dB	291	02H	23H	-40.9dB	341	02H	55H	-35.9dB	391	03H	07H	-30.9dB
242	01H	72H	-45.8dB	292	02H	24H	-40.8dB	342	02H	56H	-35.8dB	392	03H	08H	-30.8dB
243	01H	73H	-45.7dB	293	02H	25H	-40.7dB	343	02H	57H	-35.7dB	393	03H	09H	-30.7dB
244	01H	74H	-45.6dB	294	02H	26H	-40.6dB	344	02H	58H	-35.6dB	394	03H	0AH	-30.6dB
245	01H	75H	-45.5dB	295	02H	27H	-40.5dB	345	02H	59H	-35.5dB	395	03H	0BH	-30.5dB
246	01H	76H	-45.4dB	296	02H	28H	-40.4dB	346	02H	5AH	-35.4dB	396	03H	0CH	-30.4dB
247	01H	77H	-45.3dB	297	02H	29H	-40.3dB	347	02H	5BH	-35.3dB	397	03H	0DH	-30.3dB
248	01H	78H	-45.2dB	298	02H	2AH	-40.2dB	348	02H	5CH	-35.2dB	398	03H	0EH	-30.2dB
249	01H	79H	-45.1dB	299	02H	2BH	-40.1dB	349	02H	5DH	-35.1dB	399	03H	0FH	-30.1dB

**Digital mixer D-2000 Series**

Position			Gain(dB)	Position			Gain(dB)	Position			Gain(dB)	Position			Gain(dB)
U	L			U	L			U	L			U	L		
400	03H	10H	-30.0dB	450	03H	42H	-25.0dB	500	03H	74H	-20.0dB	550	04H	26H	-15.0dB
401	03H	11H	-29.9dB	451	03H	43H	-24.9dB	501	03H	75H	-19.9dB	551	04H	27H	-14.9dB
402	03H	12H	-29.8dB	452	03H	44H	-24.8dB	502	03H	76H	-19.8dB	552	04H	28H	-14.8dB
403	03H	13H	-29.7dB	453	03H	45H	-24.7dB	503	03H	77H	-19.7dB	553	04H	29H	-14.7dB
404	03H	14H	-29.6dB	454	03H	46H	-24.6dB	504	03H	78H	-19.6dB	554	04H	2AH	-14.6dB
405	03H	15H	-29.5dB	455	03H	47H	-24.5dB	505	03H	79H	-19.5dB	555	04H	2BH	-14.5dB
406	03H	16H	-29.4dB	456	03H	48H	-24.4dB	506	03H	7AH	-19.4dB	556	04H	2CH	-14.4dB
407	03H	17H	-29.3dB	457	03H	49H	-24.3dB	507	03H	7BH	-19.3dB	557	04H	2DH	-14.3dB
408	03H	18H	-29.2dB	458	03H	4AH	-24.2dB	508	03H	7CH	-19.2dB	558	04H	2EH	-14.2dB
409	03H	19H	-29.1dB	459	03H	4BH	-24.1dB	509	03H	7DH	-19.1dB	559	04H	2FH	-14.1dB
410	03H	1AH	-29.0dB	460	03H	4CH	-24.0dB	510	03H	7EH	-19.0dB	560	04H	30H	-14.0dB
411	03H	1BH	-28.9dB	461	03H	4DH	-23.9dB	511	03H	7FH	-18.9dB	561	04H	31H	-13.9dB
412	03H	1CH	-28.8dB	462	03H	4EH	-23.8dB	512	04H	00H	-18.8dB	562	04H	32H	-13.8dB
413	03H	1DH	-28.7dB	463	03H	4FH	-23.7dB	513	04H	01H	-18.7dB	563	04H	33H	-13.7dB
414	03H	1EH	-28.6dB	464	03H	50H	-23.6dB	514	04H	02H	-18.6dB	564	04H	34H	-13.6dB
415	03H	1FH	-28.5dB	465	03H	51H	-23.5dB	515	04H	03H	-18.5dB	565	04H	35H	-13.5dB
416	03H	20H	-28.4dB	466	03H	52H	-23.4dB	516	04H	04H	-18.4dB	566	04H	36H	-13.4dB
417	03H	21H	-28.3dB	467	03H	53H	-23.3dB	517	04H	05H	-18.3dB	567	04H	37H	-13.3dB
418	03H	22H	-28.2dB	468	03H	54H	-23.2dB	518	04H	06H	-18.2dB	568	04H	38H	-13.2dB
419	03H	23H	-28.1dB	469	03H	55H	-23.1dB	519	04H	07H	-18.1dB	569	04H	39H	-13.1dB
420	03H	24H	-28.0dB	470	03H	56H	-23.0dB	520	04H	08H	-18.0dB	570	04H	3AH	-13.0dB
421	03H	25H	-27.9dB	471	03H	57H	-22.9dB	521	04H	09H	-17.9dB	571	04H	3BH	-12.9dB
422	03H	26H	-27.8dB	472	03H	58H	-22.8dB	522	04H	0AH	-17.8dB	572	04H	3CH	-12.8dB
423	03H	27H	-27.7dB	473	03H	59H	-22.7dB	523	04H	0BH	-17.7dB	573	04H	3DH	-12.7dB
424	03H	28H	-27.6dB	474	03H	5AH	-22.6dB	524	04H	0CH	-17.6dB	574	04H	3EH	-12.6dB
425	03H	29H	-27.5dB	475	03H	5BH	-22.5dB	525	04H	0DH	-17.5dB	575	04H	3FH	-12.5dB
426	03H	2AH	-27.4dB	476	03H	5CH	-22.4dB	526	04H	0EH	-17.4dB	576	04H	40H	-12.4dB
427	03H	2BH	-27.3dB	477	03H	5DH	-22.3dB	527	04H	0FH	-17.3dB	577	04H	41H	-12.3dB
428	03H	2CH	-27.2dB	478	03H	5EH	-22.2dB	528	04H	10H	-17.2dB	578	04H	42H	-12.2dB
429	03H	2DH	-27.1dB	479	03H	5FH	-22.1dB	529	04H	11H	-17.1dB	579	04H	43H	-12.1dB
430	03H	2EH	-27.0dB	480	03H	60H	-22.0dB	530	04H	12H	-17.0dB	580	04H	44H	-12.0dB
431	03H	2FH	-26.9dB	481	03H	61H	-21.9dB	531	04H	13H	-16.9dB	581	04H	45H	-11.9dB
432	03H	30H	-26.8dB	482	03H	62H	-21.8dB	532	04H	14H	-16.8dB	582	04H	46H	-11.8dB
433	03H	31H	-26.7dB	483	03H	63H	-21.7dB	533	04H	15H	-16.7dB	583	04H	47H	-11.7dB
434	03H	32H	-26.6dB	484	03H	64H	-21.6dB	534	04H	16H	-16.6dB	584	04H	48H	-11.6dB
435	03H	33H	-26.5dB	485	03H	65H	-21.5dB	535	04H	17H	-16.5dB	585	04H	49H	-11.5dB
436	03H	34H	-26.4dB	486	03H	66H	-21.4dB	536	04H	18H	-16.4dB	586	04H	4AH	-11.4dB
437	03H	35H	-26.3dB	487	03H	67H	-21.3dB	537	04H	19H	-16.3dB	587	04H	4BH	-11.3dB
438	03H	36H	-26.2dB	488	03H	68H	-21.2dB	538	04H	1AH	-16.2dB	588	04H	4CH	-11.2dB
439	03H	37H	-26.1dB	489	03H	69H	-21.1dB	539	04H	1BH	-16.1dB	589	04H	4DH	-11.1dB
440	03H	38H	-26.0dB	490	03H	6AH	-21.0dB	540	04H	1CH	-16.0dB	590	04H	4EH	-11.0dB
441	03H	39H	-25.9dB	491	03H	6BH	-20.9dB	541	04H	1DH	-15.9dB	591	04H	4FH	-10.9dB
442	03H	3AH	-25.8dB	492	03H	6CH	-20.8dB	542	04H	1EH	-15.8dB	592	04H	50H	-10.8dB
443	03H	3BH	-25.7dB	493	03H	6DH	-20.7dB	543	04H	1FH	-15.7dB	593	04H	51H	-10.7dB
444	03H	3CH	-25.6dB	494	03H	6EH	-20.6dB	544	04H	20H	-15.6dB	594	04H	52H	-10.6dB
445	03H	3DH	-25.5dB	495	03H	6FH	-20.5dB	545	04H	21H	-15.5dB	595	04H	53H	-10.5dB
446	03H	3EH	-25.4dB	496	03H	70H	-20.4dB	546	04H	22H	-15.4dB	596	04H	54H	-10.4dB
447	03H	3FH	-25.3dB	497	03H	71H	-20.3dB	547	04H	23H	-15.3dB	597	04H	55H	-10.3dB
448	03H	40H	-25.2dB	498	03H	72H	-20.2dB	548	04H	24H	-15.2dB	598	04H	56H	-10.2dB
449	03H	41H	-25.1dB	499	03H	73H	-20.1dB	549	04H	25H	-15.1dB	599	04H	57H	-10.1dB

**Digital mixer D-2000 Series**

Position			Gain(dB)	Position			Gain(dB)	Position			Gain(dB)	Position			Gain(dB)
U	L			U	L			U	L			U	L		
600	04H	58H	-10.0dB	650	05H	0AH	-5.0dB	700	05H	3CH	0.0dB	750	05H	6EH	5.0dB
601	04H	59H	-9.9dB	651	05H	0BH	-4.9dB	701	05H	3DH	0.1dB	751	05H	6FH	5.1dB
602	04H	5AH	-9.8dB	652	05H	0CH	-4.8dB	702	05H	3EH	0.2dB	752	05H	70H	5.2dB
603	04H	5BH	-9.7dB	653	05H	0DH	-4.7dB	703	05H	3FH	0.3dB	753	05H	71H	5.3dB
604	04H	5CH	-9.6dB	654	05H	0EH	-4.6dB	704	05H	40H	0.4dB	754	05H	72H	5.4dB
605	04H	5DH	-9.5dB	655	05H	0FH	-4.5dB	705	05H	41H	0.5dB	755	05H	73H	5.5dB
606	04H	5EH	-9.4dB	656	05H	10H	-4.4dB	706	05H	42H	0.6dB	756	05H	74H	5.6dB
607	04H	5FH	-9.3dB	657	05H	11H	-4.3dB	707	05H	43H	0.7dB	757	05H	75H	5.7dB
608	04H	60H	-9.2dB	658	05H	12H	-4.2dB	708	05H	44H	0.8dB	758	05H	76H	5.8dB
609	04H	61H	-9.1dB	659	05H	13H	-4.1dB	709	05H	45H	0.9dB	759	05H	77H	5.9dB
610	04H	62H	-9.0dB	660	05H	14H	-4.0dB	710	05H	46H	1.0dB	760	05H	78H	6.0dB
611	04H	63H	-8.9dB	661	05H	15H	-3.9dB	711	05H	47H	1.1dB	761	05H	79H	6.1dB
612	04H	64H	-8.8dB	662	05H	16H	-3.8dB	712	05H	48H	1.2dB	762	05H	7AH	6.2dB
613	04H	65H	-8.7dB	663	05H	17H	-3.7dB	713	05H	49H	1.3dB	763	05H	7BH	6.3dB
614	04H	66H	-8.6dB	664	05H	18H	-3.6dB	714	05H	4AH	1.4dB	764	05H	7CH	6.4dB
615	04H	67H	-8.5dB	665	05H	19H	-3.5dB	715	05H	4BH	1.5dB	765	05H	7DH	6.5dB
616	04H	68H	-8.4dB	666	05H	1AH	-3.4dB	716	05H	4CH	1.6dB	766	05H	7EH	6.6dB
617	04H	69H	-8.3dB	667	05H	1BH	-3.3dB	717	05H	4DH	1.7dB	767	05H	7FH	6.7dB
618	04H	6AH	-8.2dB	668	05H	1CH	-3.2dB	718	05H	4EH	1.8dB	768	06H	00H	6.8dB
619	04H	6BH	-8.1dB	669	05H	1DH	-3.1dB	719	05H	4FH	1.9dB	769	06H	01H	6.9dB
620	04H	6CH	-8.0dB	670	05H	1EH	-3.0dB	720	05H	50H	2.0dB	770	06H	02H	7.0dB
621	04H	6DH	-7.9dB	671	05H	1FH	-2.9dB	721	05H	51H	2.1dB	771	06H	03H	7.1dB
622	04H	6EH	-7.8dB	672	05H	20H	-2.8dB	722	05H	52H	2.2dB	772	06H	04H	7.2dB
623	04H	6FH	-7.7dB	673	05H	21H	-2.7dB	723	05H	53H	2.3dB	773	06H	05H	7.3dB
624	04H	70H	-7.6dB	674	05H	22H	-2.6dB	724	05H	54H	2.4dB	774	06H	06H	7.4dB
625	04H	71H	-7.5dB	675	05H	23H	-2.5dB	725	05H	55H	2.5dB	775	06H	07H	7.5dB
626	04H	72H	-7.4dB	676	05H	24H	-2.4dB	726	05H	56H	2.6dB	776	06H	08H	7.6dB
627	04H	73H	-7.3dB	677	05H	25H	-2.3dB	727	05H	57H	2.7dB	777	06H	09H	7.7dB
628	04H	74H	-7.2dB	678	05H	26H	-2.2dB	728	05H	58H	2.8dB	778	06H	0AH	7.8dB
629	04H	75H	-7.1dB	679	05H	27H	-2.1dB	729	05H	59H	2.9dB	779	06H	0BH	7.9dB
630	04H	76H	-7.0dB	680	05H	28H	-2.0dB	730	05H	5AH	3.0dB	780	06H	0CH	8.0dB
631	04H	77H	-6.9dB	681	05H	29H	-1.9dB	731	05H	5BH	3.1dB	781	06H	0DH	8.1dB
632	04H	78H	-6.8dB	682	05H	2AH	-1.8dB	732	05H	5CH	3.2dB	782	06H	0EH	8.2dB
633	04H	79H	-6.7dB	683	05H	2BH	-1.7dB	733	05H	5DH	3.3dB	783	06H	0FH	8.3dB
634	04H	7AH	-6.6dB	684	05H	2CH	-1.6dB	734	05H	5EH	3.4dB	784	06H	10H	8.4dB
635	04H	7BH	-6.5dB	685	05H	2DH	-1.5dB	735	05H	5FH	3.5dB	785	06H	11H	8.5dB
636	04H	7CH	-6.4dB	686	05H	2EH	-1.4dB	736	05H	60H	3.6dB	786	06H	12H	8.6dB
637	04H	7DH	-6.3dB	687	05H	2FH	-1.3dB	737	05H	61H	3.7dB	787	06H	13H	8.7dB
638	04H	7EH	-6.2dB	688	05H	30H	-1.2dB	738	05H	62H	3.8dB	788	06H	14H	8.8dB
639	04H	7FH	-6.1dB	689	05H	31H	-1.1dB	739	05H	63H	3.9dB	789	06H	15H	8.9dB
640	05H	00H	-6.0dB	690	05H	32H	-1.0dB	740	05H	64H	4.0dB	790	06H	16H	9.0dB
641	05H	01H	-5.9dB	691	05H	33H	-0.9dB	741	05H	65H	4.1dB	791	06H	17H	9.1dB
642	05H	02H	-5.8dB	692	05H	34H	-0.8dB	742	05H	66H	4.2dB	792	06H	18H	9.2dB
643	05H	03H	-5.7dB	693	05H	35H	-0.7dB	743	05H	67H	4.3dB	793	06H	19H	9.3dB
644	05H	04H	-5.6dB	694	05H	36H	-0.6dB	744	05H	68H	4.4dB	794	06H	1AH	9.4dB
645	05H	05H	-5.5dB	695	05H	37H	-0.5dB	745	05H	69H	4.5dB	795	06H	1BH	9.5dB
646	05H	06H	-5.4dB	696	05H	38H	-0.4dB	746	05H	6AH	4.6dB	796	06H	1CH	9.6dB
647	05H	07H	-5.3dB	697	05H	39H	-0.3dB	747	05H	6BH	4.7dB	797	06H	1DH	9.7dB
648	05H	08H	-5.2dB	698	05H	3AH	-0.2dB	748	05H	6CH	4.8dB	798	06H	1EH	9.8dB
649	05H	09H	-5.1dB	699	05H	3BH	-0.1dB	749	05H	6DH	4.9dB	799	06H	1FH	9.9dB
												800	06H	20H	10.0dB

■ Value vs Fine Gain Table for Fader (UP)

Step	Gain (dB)		Step	Gain (dB)		Step	Gain (dB)		Step	Gain (dB)					
	U	L		U	L		U	L		U	L				
1	40H	01H	0. 1dB	51	40H	33H	5. 1dB	101	40H	65H	10. 1dB	151	41H	17H	15. 1dB
2	40H	02H	0. 2dB	52	40H	34H	5. 2dB	102	40H	66H	10. 2dB	152	41H	18H	15. 2dB
3	40H	03H	0. 3dB	53	40H	35H	5. 3dB	103	40H	67H	10. 3dB	153	41H	19H	15. 3dB
4	40H	04H	0. 4dB	54	40H	36H	5. 4dB	104	40H	68H	10. 4dB	154	41H	1AH	15. 4dB
5	40H	05H	0. 5dB	55	40H	37H	5. 5dB	105	40H	69H	10. 5dB	155	41H	1BH	15. 5dB
6	40H	06H	0. 6dB	56	40H	38H	5. 6dB	106	40H	6AH	10. 6dB	156	41H	1CH	15. 6dB
7	40H	07H	0. 7dB	57	40H	39H	5. 7dB	107	40H	6BH	10. 7dB	157	41H	1DH	15. 7dB
8	40H	08H	0. 8dB	58	40H	3AH	5. 8dB	108	40H	6CH	10. 8dB	158	41H	1EH	15. 8dB
9	40H	09H	0. 9dB	59	40H	3BH	5. 9dB	109	40H	6DH	10. 9dB	159	41H	1FH	15. 9dB
10	40H	0AH	1. 0dB	60	40H	3CH	6. 0dB	110	40H	6EH	11. 0dB	160	41H	20H	16. 0dB
11	40H	0BH	1. 1dB	61	40H	3DH	6. 1dB	111	40H	6FH	11. 1dB	161	41H	21H	16. 1dB
12	40H	0CH	1. 2dB	62	40H	3EH	6. 2dB	112	40H	70H	11. 2dB	162	41H	22H	16. 2dB
13	40H	0DH	1. 3dB	63	40H	3FH	6. 3dB	113	40H	71H	11. 3dB	163	41H	23H	16. 3dB
14	40H	0EH	1. 4dB	64	40H	40H	6. 4dB	114	40H	72H	11. 4dB	164	41H	24H	16. 4dB
15	40H	0FH	1. 5dB	65	40H	41H	6. 5dB	115	40H	73H	11. 5dB	165	41H	25H	16. 5dB
16	40H	10H	1. 6dB	66	40H	42H	6. 6dB	116	40H	74H	11. 6dB	166	41H	26H	16. 6dB
17	40H	11H	1. 7dB	67	40H	43H	6. 7dB	117	40H	75H	11. 7dB	167	41H	27H	16. 7dB
18	40H	12H	1. 8dB	68	40H	44H	6. 8dB	118	40H	76H	11. 8dB	168	41H	28H	16. 8dB
19	40H	13H	1. 9dB	69	40H	45H	6. 9dB	119	40H	77H	11. 9dB	169	41H	29H	16. 9dB
20	40H	14H	2. 0dB	70	40H	46H	7. 0dB	120	40H	78H	12. 0dB	170	41H	2AH	17. 0dB
21	40H	15H	2. 1dB	71	40H	47H	7. 1dB	121	40H	79H	12. 1dB	171	41H	2BH	17. 1dB
22	40H	16H	2. 2dB	72	40H	48H	7. 2dB	122	40H	7AH	12. 2dB	172	41H	2CH	17. 2dB
23	40H	17H	2. 3dB	73	40H	49H	7. 3dB	123	40H	7BH	12. 3dB	173	41H	2DH	17. 3dB
24	40H	18H	2. 4dB	74	40H	4AH	7. 4dB	124	40H	7CH	12. 4dB	174	41H	2EH	17. 4dB
25	40H	19H	2. 5dB	75	40H	4BH	7. 5dB	125	40H	7DH	12. 5dB	175	41H	2FH	17. 5dB
26	40H	1AH	2. 6dB	76	40H	4CH	7. 6dB	126	40H	7EH	12. 6dB	176	41H	30H	17. 6dB
27	40H	1BH	2. 7dB	77	40H	4DH	7. 7dB	127	40H	7FH	12. 7dB	177	41H	31H	17. 7dB
28	40H	1CH	2. 8dB	78	40H	4EH	7. 8dB	128	41H	00H	12. 8dB	178	41H	32H	17. 8dB
29	40H	1DH	2. 9dB	79	40H	4FH	7. 9dB	129	41H	01H	12. 9dB	179	41H	33H	17. 9dB
30	40H	1EH	3. 0dB	80	40H	50H	8. 0dB	130	41H	02H	13. 0dB	180	41H	34H	18. 0dB
31	40H	1FH	3. 1dB	81	40H	51H	8. 1dB	131	41H	03H	13. 1dB	181	41H	35H	18. 1dB
32	40H	20H	3. 2dB	82	40H	52H	8. 2dB	132	41H	04H	13. 2dB	182	41H	36H	18. 2dB
33	40H	21H	3. 3dB	83	40H	53H	8. 3dB	133	41H	05H	13. 3dB	183	41H	37H	18. 3dB
34	40H	22H	3. 4dB	84	40H	54H	8. 4dB	134	41H	06H	13. 4dB	184	41H	38H	18. 4dB
35	40H	23H	3. 5dB	85	40H	55H	8. 5dB	135	41H	07H	13. 5dB	185	41H	39H	18. 5dB
36	40H	24H	3. 6dB	86	40H	56H	8. 6dB	136	41H	08H	13. 6dB	186	41H	3AH	18. 6dB
37	40H	25H	3. 7dB	87	40H	57H	8. 7dB	137	41H	09H	13. 7dB	187	41H	3BH	18. 7dB
38	40H	26H	3. 8dB	88	40H	58H	8. 8dB	138	41H	0AH	13. 8dB	188	41H	3CH	18. 8dB
39	40H	27H	3. 9dB	89	40H	59H	8. 9dB	139	41H	0BH	13. 9dB	189	41H	3DH	18. 9dB
40	40H	28H	4. 0dB	90	40H	5AH	9. 0dB	140	41H	0CH	14. 0dB	190	41H	3EH	19. 0dB
41	40H	29H	4. 1dB	91	40H	5BH	9. 1dB	141	41H	0DH	14. 1dB	191	41H	3FH	19. 1dB
42	40H	2AH	4. 2dB	92	40H	5CH	9. 2dB	142	41H	0EH	14. 2dB	192	41H	40H	19. 2dB
43	40H	2BH	4. 3dB	93	40H	5DH	9. 3dB	143	41H	0FH	14. 3dB	193	41H	41H	19. 3dB
44	40H	2CH	4. 4dB	94	40H	5EH	9. 4dB	144	41H	10H	14. 4dB	194	41H	42H	19. 4dB
45	40H	2DH	4. 5dB	95	40H	5FH	9. 5dB	145	41H	11H	14. 5dB	195	41H	43H	19. 5dB
46	40H	2EH	4. 6dB	96	40H	60H	9. 6dB	146	41H	12H	14. 6dB	196	41H	44H	19. 6dB
47	40H	2FH	4. 7dB	97	40H	61H	9. 7dB	147	41H	13H	14. 7dB	197	41H	45H	19. 7dB
48	40H	30H	4. 8dB	98	40H	62H	9. 8dB	148	41H	14H	14. 8dB	198	41H	46H	19. 8dB
49	40H	31H	4. 9dB	99	40H	63H	9. 9dB	149	41H	15H	14. 9dB	199	41H	47H	19. 9dB
50	40H	32H	5. 0dB	100	40H	64H	10. 0dB	150	41H	16H	15. 0dB	200	41H	48H	20. 0dB

**Digital mixer D-2000 Series**

	Step		Gain (dB)		Step		Gain (dB)
	U	L			U	L	
201	41H	49H	20. 1dB	251	41H	7BH	25. 1dB
202	41H	4AH	20. 2dB	252	41H	7CH	25. 2dB
203	41H	4BH	20. 3dB	253	41H	7DH	25. 3dB
204	41H	4CH	20. 4dB	254	41H	7EH	25. 4dB
205	41H	4DH	20. 5dB	255	41H	7FH	25. 5dB
206	41H	4EH	20. 6dB	256	42H	00H	25. 6dB
207	41H	4FH	20. 7dB	257	42H	01H	25. 7dB
208	41H	50H	20. 8dB	258	42H	02H	25. 8dB
209	41H	51H	20. 9dB	259	42H	03H	25. 9dB
210	41H	52H	21. 0dB	260	42H	04H	26. 0dB
211	41H	53H	21. 1dB	261	42H	05H	26. 1dB
212	41H	54H	21. 2dB	262	42H	06H	26. 2dB
213	41H	55H	21. 3dB	263	42H	07H	26. 3dB
214	41H	56H	21. 4dB	264	42H	08H	26. 4dB
215	41H	57H	21. 5dB	265	42H	09H	26. 5dB
216	41H	58H	21. 6dB	266	42H	0AH	26. 6dB
217	41H	59H	21. 7dB	267	42H	0BH	26. 7dB
218	41H	5AH	21. 8dB	268	42H	0CH	26. 8dB
219	41H	5BH	21. 9dB	269	42H	0DH	26. 9dB
220	41H	5CH	22. 0dB	270	42H	0EH	27. 0dB
221	41H	5DH	22. 1dB	271	42H	0FH	27. 1dB
222	41H	5EH	22. 2dB	272	42H	10H	27. 2dB
223	41H	5FH	22. 3dB	273	42H	11H	27. 3dB
224	41H	60H	22. 4dB	274	42H	12H	27. 4dB
225	41H	61H	22. 5dB	275	42H	13H	27. 5dB
226	41H	62H	22. 6dB	276	42H	14H	27. 6dB
227	41H	63H	22. 7dB	277	42H	15H	27. 7dB
228	41H	64H	22. 8dB	278	42H	16H	27. 8dB
229	41H	65H	22. 9dB	279	42H	17H	27. 9dB
230	41H	66H	23. 0dB	280	42H	18H	28. 0dB
231	41H	67H	23. 1dB	281	42H	19H	28. 1dB
232	41H	68H	23. 2dB	282	42H	1AH	28. 2dB
233	41H	69H	23. 3dB	283	42H	1BH	28. 3dB
234	41H	6AH	23. 4dB	284	42H	1CH	28. 4dB
235	41H	6BH	23. 5dB	285	42H	1DH	28. 5dB
236	41H	6CH	23. 6dB	286	42H	1EH	28. 6dB
237	41H	6DH	23. 7dB	287	42H	1FH	28. 7dB
238	41H	6EH	23. 8dB	288	42H	20H	28. 8dB
239	41H	6FH	23. 9dB	289	42H	21H	28. 9dB
240	41H	70H	24. 0dB	290	42H	22H	29. 0dB
241	41H	71H	24. 1dB	291	42H	23H	29. 1dB
242	41H	72H	24. 2dB	292	42H	24H	29. 2dB
243	41H	73H	24. 3dB	293	42H	25H	29. 3dB
244	41H	74H	24. 4dB	294	42H	26H	29. 4dB
245	41H	75H	24. 5dB	295	42H	27H	29. 5dB
246	41H	76H	24. 6dB	296	42H	28H	29. 6dB
247	41H	77H	24. 7dB	297	42H	29H	29. 7dB
248	41H	78H	24. 8dB	298	42H	2AH	29. 8dB
249	41H	79H	24. 9dB	299	42H	2BH	29. 9dB
250	41H	7AH	25. 0dB	300	42H	2CH	30. 0dB

■ Value vs Fine Gain Table for Fader (DOWN)

Step			Gain (dB)	Step			Gain (dB)	Step			Gain (dB)	Step			Gain (dB)
U	L			U	L			U	L			U	L		
1	60H	01H	-0.1dB	51	60H	33H	-5.1dB	101	60H	65H	-10.1dB	151	61H	17H	-15.1dB
2	60H	02H	-0.2dB	52	60H	34H	-5.2dB	102	60H	66H	-10.2dB	152	61H	18H	-15.2dB
3	60H	03H	-0.3dB	53	60H	35H	-5.3dB	103	60H	67H	-10.3dB	153	61H	19H	-15.3dB
4	60H	04H	-0.4dB	54	60H	36H	-5.4dB	104	60H	68H	-10.4dB	154	61H	1AH	-15.4dB
5	60H	05H	-0.5dB	55	60H	37H	-5.5dB	105	60H	69H	-10.5dB	155	61H	1BH	-15.5dB
6	60H	06H	-0.6dB	56	60H	38H	-5.6dB	106	60H	6AH	-10.6dB	156	61H	1CH	-15.6dB
7	60H	07H	-0.7dB	57	60H	39H	-5.7dB	107	60H	6BH	-10.7dB	157	61H	1DH	-15.7dB
8	60H	08H	-0.8dB	58	60H	3AH	-5.8dB	108	60H	6CH	-10.8dB	158	61H	1EH	-15.8dB
9	60H	09H	-0.9dB	59	60H	3BH	-5.9dB	109	60H	6DH	-10.9dB	159	61H	1FH	-15.9dB
10	60H	0AH	-1.0dB	60	60H	3CH	-6.0dB	110	60H	6EH	-11.0dB	160	61H	20H	-16.0dB
11	60H	0BH	-1.1dB	61	60H	3DH	-6.1dB	111	60H	6FH	-11.1dB	161	61H	21H	-16.1dB
12	60H	0CH	-1.2dB	62	60H	3EH	-6.2dB	112	60H	70H	-11.2dB	162	61H	22H	-16.2dB
13	60H	0DH	-1.3dB	63	60H	3FH	-6.3dB	113	60H	71H	-11.3dB	163	61H	23H	-16.3dB
14	60H	0EH	-1.4dB	64	60H	40H	-6.4dB	114	60H	72H	-11.4dB	164	61H	24H	-16.4dB
15	60H	0FH	-1.5dB	65	60H	41H	-6.5dB	115	60H	73H	-11.5dB	165	61H	25H	-16.5dB
16	60H	10H	-1.6dB	66	60H	42H	-6.6dB	116	60H	74H	-11.6dB	166	61H	26H	-16.6dB
17	60H	11H	-1.7dB	67	60H	43H	-6.7dB	117	60H	75H	-11.7dB	167	61H	27H	-16.7dB
18	60H	12H	-1.8dB	68	60H	44H	-6.8dB	118	60H	76H	-11.8dB	168	61H	28H	-16.8dB
19	60H	13H	-1.9dB	69	60H	45H	-6.9dB	119	60H	77H	-11.9dB	169	61H	29H	-16.9dB
20	60H	14H	-2.0dB	70	60H	46H	-7.0dB	120	60H	78H	-12.0dB	170	61H	2AH	-17.0dB
21	60H	15H	-2.1dB	71	60H	47H	-7.1dB	121	60H	79H	-12.1dB	171	61H	2BH	-17.1dB
22	60H	16H	-2.2dB	72	60H	48H	-7.2dB	122	60H	7AH	-12.2dB	172	61H	2CH	-17.2dB
23	60H	17H	-2.3dB	73	60H	49H	-7.3dB	123	60H	7BH	-12.3dB	173	61H	2DH	-17.3dB
24	60H	18H	-2.4dB	74	60H	4AH	-7.4dB	124	60H	7CH	-12.4dB	174	61H	2EH	-17.4dB
25	60H	19H	-2.5dB	75	60H	4BH	-7.5dB	125	60H	7DH	-12.5dB	175	61H	2FH	-17.5dB
26	60H	1AH	-2.6dB	76	60H	4CH	-7.6dB	126	60H	7EH	-12.6dB	176	61H	30H	-17.6dB
27	60H	1BH	-2.7dB	77	60H	4DH	-7.7dB	127	60H	7FH	-12.7dB	177	61H	31H	-17.7dB
28	60H	1CH	-2.8dB	78	60H	4EH	-7.8dB	128	61H	00H	-12.8dB	178	61H	32H	-17.8dB
29	60H	1DH	-2.9dB	79	60H	4FH	-7.9dB	129	61H	01H	-12.9dB	179	61H	33H	-17.9dB
30	60H	1EH	-3.0dB	80	60H	50H	-8.0dB	130	61H	02H	-13.0dB	180	61H	34H	-18.0dB
31	60H	1FH	-3.1dB	81	60H	51H	-8.1dB	131	61H	03H	-13.1dB	181	61H	35H	-18.1dB
32	60H	20H	-3.2dB	82	60H	52H	-8.2dB	132	61H	04H	-13.2dB	182	61H	36H	-18.2dB
33	60H	21H	-3.3dB	83	60H	53H	-8.3dB	133	61H	05H	-13.3dB	183	61H	37H	-18.3dB
34	60H	22H	-3.4dB	84	60H	54H	-8.4dB	134	61H	06H	-13.4dB	184	61H	38H	-18.4dB
35	60H	23H	-3.5dB	85	60H	55H	-8.5dB	135	61H	07H	-13.5dB	185	61H	39H	-18.5dB
36	60H	24H	-3.6dB	86	60H	56H	-8.6dB	136	61H	08H	-13.6dB	186	61H	3AH	-18.6dB
37	60H	25H	-3.7dB	87	60H	57H	-8.7dB	137	61H	09H	-13.7dB	187	61H	3BH	-18.7dB
38	60H	26H	-3.8dB	88	60H	58H	-8.8dB	138	61H	0AH	-13.8dB	188	61H	3CH	-18.8dB
39	60H	27H	-3.9dB	89	60H	59H	-8.9dB	139	61H	0BH	-13.9dB	189	61H	3DH	-18.9dB
40	60H	28H	-4.0dB	90	60H	5AH	-9.0dB	140	61H	0CH	-14.0dB	190	61H	3EH	-19.0dB
41	60H	29H	-4.1dB	91	60H	5BH	-9.1dB	141	61H	0DH	-14.1dB	191	61H	3FH	-19.1dB
42	60H	2AH	-4.2dB	92	60H	5CH	-9.2dB	142	61H	0EH	-14.2dB	192	61H	40H	-19.2dB
43	60H	2BH	-4.3dB	93	60H	5DH	-9.3dB	143	61H	0FH	-14.3dB	193	61H	41H	-19.3dB
44	60H	2CH	-4.4dB	94	60H	5EH	-9.4dB	144	61H	10H	-14.4dB	194	61H	42H	-19.4dB
45	60H	2DH	-4.5dB	95	60H	5FH	-9.5dB	145	61H	11H	-14.5dB	195	61H	43H	-19.5dB
46	60H	2EH	-4.6dB	96	60H	60H	-9.6dB	146	61H	12H	-14.6dB	196	61H	44H	-19.6dB
47	60H	2FH	-4.7dB	97	60H	61H	-9.7dB	147	61H	13H	-14.7dB	197	61H	45H	-19.7dB
48	60H	30H	-4.8dB	98	60H	62H	-9.8dB	148	61H	14H	-14.8dB	198	61H	46H	-19.8dB
49	60H	31H	-4.9dB	99	60H	63H	-9.9dB	149	61H	15H	-14.9dB	199	61H	47H	-19.9dB
50	60H	32H	-5.0dB	100	60H	64H	-10.0dB	150	61H	16H	-15.0dB	200	61H	48H	-20.0dB

**Digital mixer D-2000 Series**

Step			Gain (dB)	Step			Gain (dB)
U	L			U	L		
201	61H	49H	-20.1dB	251	61H	7BH	-25.1dB
202	61H	4AH	-20.2dB	252	61H	7CH	-25.2dB
203	61H	4BH	-20.3dB	253	61H	7DH	-25.3dB
204	61H	4CH	-20.4dB	254	61H	7EH	-25.4dB
205	61H	4DH	-20.5dB	255	61H	7FH	-25.5dB
206	61H	4EH	-20.6dB	256	62H	00H	-25.6dB
207	61H	4FH	-20.7dB	257	62H	01H	-25.7dB
208	61H	50H	-20.8dB	258	62H	02H	-25.8dB
209	61H	51H	-20.9dB	259	62H	03H	-25.9dB
210	61H	52H	-21.0dB	260	62H	04H	-26.0dB
211	61H	53H	-21.1dB	261	62H	05H	-26.1dB
212	61H	54H	-21.2dB	262	62H	06H	-26.2dB
213	61H	55H	-21.3dB	263	62H	07H	-26.3dB
214	61H	56H	-21.4dB	264	62H	08H	-26.4dB
215	61H	57H	-21.5dB	265	62H	09H	-26.5dB
216	61H	58H	-21.6dB	266	62H	0AH	-26.6dB
217	61H	59H	-21.7dB	267	62H	0BH	-26.7dB
218	61H	5AH	-21.8dB	268	62H	0CH	-26.8dB
219	61H	5BH	-21.9dB	269	62H	0DH	-26.9dB
220	61H	5CH	-22.0dB	270	62H	0EH	-27.0dB
221	61H	5DH	-22.1dB	271	62H	0FH	-27.1dB
222	61H	5EH	-22.2dB	272	62H	10H	-27.2dB
223	61H	5FH	-22.3dB	273	62H	11H	-27.3dB
224	61H	60H	-22.4dB	274	62H	12H	-27.4dB
225	61H	61H	-22.5dB	275	62H	13H	-27.5dB
226	61H	62H	-22.6dB	276	62H	14H	-27.6dB
227	61H	63H	-22.7dB	277	62H	15H	-27.7dB
228	61H	64H	-22.8dB	278	62H	16H	-27.8dB
229	61H	65H	-22.9dB	279	62H	17H	-27.9dB
230	61H	66H	-23.0dB	280	62H	18H	-28.0dB
231	61H	67H	-23.1dB	281	62H	19H	-28.1dB
232	61H	68H	-23.2dB	282	62H	1AH	-28.2dB
233	61H	69H	-23.3dB	283	62H	1BH	-28.3dB
234	61H	6AH	-23.4dB	284	62H	1CH	-28.4dB
235	61H	6BH	-23.5dB	285	62H	1DH	-28.5dB
236	61H	6CH	-23.6dB	286	62H	1EH	-28.6dB
237	61H	6DH	-23.7dB	287	62H	1FH	-28.7dB
238	61H	6EH	-23.8dB	288	62H	20H	-28.8dB
239	61H	6FH	-23.9dB	289	62H	21H	-28.9dB
240	61H	70H	-24.0dB	290	62H	22H	-29.0dB
241	61H	71H	-24.1dB	291	62H	23H	-29.1dB
242	61H	72H	-24.2dB	292	62H	24H	-29.2dB
243	61H	73H	-24.3dB	293	62H	25H	-29.3dB
244	61H	74H	-24.4dB	294	62H	26H	-29.4dB
245	61H	75H	-24.5dB	295	62H	27H	-29.5dB
246	61H	76H	-24.6dB	296	62H	28H	-29.6dB
247	61H	77H	-24.7dB	297	62H	29H	-29.7dB
248	61H	78H	-24.8dB	298	62H	2AH	-29.8dB
249	61H	79H	-24.9dB	299	62H	2BH	-29.9dB
250	61H	7AH	-25.0dB	300	62H	2CH	-30.0dB

■ Position vs Fine Group Trim Table for Fader

Position			Gain(dB)	Position			Gain(dB)	Position			Gain(dB)	Position			Gain(dB)
U	L			U	L			U	L			U	L		
0	00H	00H	-∞dB	50	00H	32H	-75.0dB	100	00H	64H	-70.0dB	150	01H	16H	-65.0dB
1	00H	01H	-79.9dB	51	00H	33H	-74.9dB	101	00H	65H	-69.9dB	151	01H	17H	-64.9dB
2	00H	02H	-79.8dB	52	00H	34H	-74.8dB	102	00H	66H	-69.8dB	152	01H	18H	-64.8dB
3	00H	03H	-79.7dB	53	00H	35H	-74.7dB	103	00H	67H	-69.7dB	153	01H	19H	-64.7dB
4	00H	04H	-79.6dB	54	00H	36H	-74.6dB	104	00H	68H	-69.6dB	154	01H	1AH	-64.6dB
5	00H	05H	-79.5dB	55	00H	37H	-74.5dB	105	00H	69H	-69.5dB	155	01H	1BH	-64.5dB
6	00H	06H	-79.4dB	56	00H	38H	-74.4dB	106	00H	6AH	-69.4dB	156	01H	1CH	-64.4dB
7	00H	07H	-79.3dB	57	00H	39H	-74.3dB	107	00H	6BH	-69.3dB	157	01H	1DH	-64.3dB
8	00H	08H	-79.2dB	58	00H	3AH	-74.2dB	108	00H	6CH	-69.2dB	158	01H	1EH	-64.2dB
9	00H	09H	-79.1dB	59	00H	3BH	-74.1dB	109	00H	6DH	-69.1dB	159	01H	1FH	-64.1dB
10	00H	0AH	-79.0dB	60	00H	3CH	-74.0dB	110	00H	6EH	-69.0dB	160	01H	20H	-64.0dB
11	00H	0BH	-78.9dB	61	00H	3DH	-73.9dB	111	00H	6FH	-68.9dB	161	01H	21H	-63.9dB
12	00H	0CH	-78.8dB	62	00H	3EH	-73.8dB	112	00H	70H	-68.8dB	162	01H	22H	-63.8dB
13	00H	0DH	-78.7dB	63	00H	3FH	-73.7dB	113	00H	71H	-68.7dB	163	01H	23H	-63.7dB
14	00H	0EH	-78.6dB	64	00H	40H	-73.6dB	114	00H	72H	-68.6dB	164	01H	24H	-63.6dB
15	00H	0FH	-78.5dB	65	00H	41H	-73.5dB	115	00H	73H	-68.5dB	165	01H	25H	-63.5dB
16	00H	10H	-78.4dB	66	00H	42H	-73.4dB	116	00H	74H	-68.4dB	166	01H	26H	-63.4dB
17	00H	11H	-78.3dB	67	00H	43H	-73.3dB	117	00H	75H	-68.3dB	167	01H	27H	-63.3dB
18	00H	12H	-78.2dB	68	00H	44H	-73.2dB	118	00H	76H	-68.2dB	168	01H	28H	-63.2dB
19	00H	13H	-78.1dB	69	00H	45H	-73.1dB	119	00H	77H	-68.1dB	169	01H	29H	-63.1dB
20	00H	14H	-78.0dB	70	00H	46H	-73.0dB	120	00H	78H	-68.0dB	170	01H	2AH	-63.0dB
21	00H	15H	-77.9dB	71	00H	47H	-72.9dB	121	00H	79H	-67.9dB	171	01H	2BH	-62.9dB
22	00H	16H	-77.8dB	72	00H	48H	-72.8dB	122	00H	7AH	-67.8dB	172	01H	2CH	-62.8dB
23	00H	17H	-77.7dB	73	00H	49H	-72.7dB	123	00H	7BH	-67.7dB	173	01H	2DH	-62.7dB
24	00H	18H	-77.6dB	74	00H	4AH	-72.6dB	124	00H	7CH	-67.6dB	174	01H	2EH	-62.6dB
25	00H	19H	-77.5dB	75	00H	4BH	-72.5dB	125	00H	7DH	-67.5dB	175	01H	2FH	-62.5dB
26	00H	1AH	-77.4dB	76	00H	4CH	-72.4dB	126	00H	7EH	-67.4dB	176	01H	30H	-62.4dB
27	00H	1BH	-77.3dB	77	00H	4DH	-72.3dB	127	00H	7FH	-67.3dB	177	01H	31H	-62.3dB
28	00H	1CH	-77.2dB	78	00H	4EH	-72.2dB	128	01H	00H	-67.2dB	178	01H	32H	-62.2dB
29	00H	1DH	-77.1dB	79	00H	4FH	-72.1dB	129	01H	01H	-67.1dB	179	01H	33H	-62.1dB
30	00H	1EH	-77.0dB	80	00H	50H	-72.0dB	130	01H	02H	-67.0dB	180	01H	34H	-62.0dB
31	00H	1FH	-76.9dB	81	00H	51H	-71.9dB	131	01H	03H	-66.9dB	181	01H	35H	-61.9dB
32	00H	20H	-76.8dB	82	00H	52H	-71.8dB	132	01H	04H	-66.8dB	182	01H	36H	-61.8dB
33	00H	21H	-76.7dB	83	00H	53H	-71.7dB	133	01H	05H	-66.7dB	183	01H	37H	-61.7dB
34	00H	22H	-76.6dB	84	00H	54H	-71.6dB	134	01H	06H	-66.6dB	184	01H	38H	-61.6dB
35	00H	23H	-76.5dB	85	00H	55H	-71.5dB	135	01H	07H	-66.5dB	185	01H	39H	-61.5dB
36	00H	24H	-76.4dB	86	00H	56H	-71.4dB	136	01H	08H	-66.4dB	186	01H	3AH	-61.4dB
37	00H	25H	-76.3dB	87	00H	57H	-71.3dB	137	01H	09H	-66.3dB	187	01H	3BH	-61.3dB
38	00H	26H	-76.2dB	88	00H	58H	-71.2dB	138	01H	0AH	-66.2dB	188	01H	3CH	-61.2dB
39	00H	27H	-76.1dB	89	00H	59H	-71.1dB	139	01H	0BH	-66.1dB	189	01H	3DH	-61.1dB
40	00H	28H	-76.0dB	90	00H	5AH	-71.0dB	140	01H	0CH	-66.0dB	190	01H	3EH	-61.0dB
41	00H	29H	-75.9dB	91	00H	5BH	-70.9dB	141	01H	0DH	-65.9dB	191	01H	3FH	-60.9dB
42	00H	2AH	-75.8dB	92	00H	5CH	-70.8dB	142	01H	0EH	-65.8dB	192	01H	40H	-60.8dB
43	00H	2BH	-75.7dB	93	00H	5DH	-70.7dB	143	01H	0FH	-65.7dB	193	01H	41H	-60.7dB
44	00H	2CH	-75.6dB	94	00H	5EH	-70.6dB	144	01H	10H	-65.6dB	194	01H	42H	-60.6dB
45	00H	2DH	-75.5dB	95	00H	5FH	-70.5dB	145	01H	11H	-65.5dB	195	01H	43H	-60.5dB
46	00H	2EH	-75.4dB	96	00H	60H	-70.4dB	146	01H	12H	-65.4dB	196	01H	44H	-60.4dB
47	00H	2FH	-75.3dB	97	00H	61H	-70.3dB	147	01H	13H	-65.3dB	197	01H	45H	-60.3dB
48	00H	30H	-75.2dB	98	00H	62H	-70.2dB	148	01H	14H	-65.2dB	198	01H	46H	-60.2dB
49	00H	31H	-75.1dB	99	00H	63H	-70.1dB	149	01H	15H	-65.1dB	199	01H	47H	-60.1dB



**Digital mixer D-2000 Series**

Position			Gain(dB)	Position			Gain(dB)	Position			Gain(dB)	Position			Gain(dB)
U	L			U	L			U	L			U	L		
200	01H	48H	-60.0dB	250	01H	7AH	-55.0dB	300	02H	2CH	-50.0dB	350	02H	5EH	-45.0dB
201	01H	49H	-59.9dB	251	01H	7BH	-54.9dB	301	02H	2DH	-49.9dB	351	02H	5FH	-44.9dB
202	01H	4AH	-59.8dB	252	01H	7CH	-54.8dB	302	02H	2EH	-49.8dB	352	02H	60H	-44.8dB
203	01H	4BH	-59.7dB	253	01H	7DH	-54.7dB	303	02H	2FH	-49.7dB	353	02H	61H	-44.7dB
204	01H	4CH	-59.6dB	254	01H	7EH	-54.6dB	304	02H	30H	-49.6dB	354	02H	62H	-44.6dB
205	01H	4DH	-59.5dB	255	01H	7FH	-54.5dB	305	02H	31H	-49.5dB	355	02H	63H	-44.5dB
206	01H	4EH	-59.4dB	256	02H	00H	-54.4dB	306	02H	32H	-49.4dB	356	02H	64H	-44.4dB
207	01H	4FH	-59.3dB	257	02H	01H	-54.3dB	307	02H	33H	-49.3dB	357	02H	65H	-44.3dB
208	01H	50H	-59.2dB	258	02H	02H	-54.2dB	308	02H	34H	-49.2dB	358	02H	66H	-44.2dB
209	01H	51H	-59.1dB	259	02H	03H	-54.1dB	309	02H	35H	-49.1dB	359	02H	67H	-44.1dB
210	01H	52H	-59.0dB	260	02H	04H	-54.0dB	310	02H	36H	-49.0dB	360	02H	68H	-44.0dB
211	01H	53H	-58.9dB	261	02H	05H	-53.9dB	311	02H	37H	-48.9dB	361	02H	69H	-43.9dB
212	01H	54H	-58.8dB	262	02H	06H	-53.8dB	312	02H	38H	-48.8dB	362	02H	6AH	-43.8dB
213	01H	55H	-58.7dB	263	02H	07H	-53.7dB	313	02H	39H	-48.7dB	363	02H	6BH	-43.7dB
214	01H	56H	-58.6dB	264	02H	08H	-53.6dB	314	02H	3AH	-48.6dB	364	02H	6CH	-43.6dB
215	01H	57H	-58.5dB	265	02H	09H	-53.5dB	315	02H	3BH	-48.5dB	365	02H	6DH	-43.5dB
216	01H	58H	-58.4dB	266	02H	0AH	-53.4dB	316	02H	3CH	-48.4dB	366	02H	6EH	-43.4dB
217	01H	59H	-58.3dB	267	02H	0BH	-53.3dB	317	02H	3DH	-48.3dB	367	02H	6FH	-43.3dB
218	01H	5AH	-58.2dB	268	02H	0CH	-53.2dB	318	02H	3EH	-48.2dB	368	02H	70H	-43.2dB
219	01H	5BH	-58.1dB	269	02H	0DH	-53.1dB	319	02H	3FH	-48.1dB	369	02H	71H	-43.1dB
220	01H	5CH	-58.0dB	270	02H	0EH	-53.0dB	320	02H	40H	-48.0dB	370	02H	72H	-43.0dB
221	01H	5DH	-57.9dB	271	02H	0FH	-52.9dB	321	02H	41H	-47.9dB	371	02H	73H	-42.9dB
222	01H	5EH	-57.8dB	272	02H	10H	-52.8dB	322	02H	42H	-47.8dB	372	02H	74H	-42.8dB
223	01H	5FH	-57.7dB	273	02H	11H	-52.7dB	323	02H	43H	-47.7dB	373	02H	75H	-42.7dB
224	01H	60H	-57.6dB	274	02H	12H	-52.6dB	324	02H	44H	-47.6dB	374	02H	76H	-42.6dB
225	01H	61H	-57.5dB	275	02H	13H	-52.5dB	325	02H	45H	-47.5dB	375	02H	77H	-42.5dB
226	01H	62H	-57.4dB	276	02H	14H	-52.4dB	326	02H	46H	-47.4dB	376	02H	78H	-42.4dB
227	01H	63H	-57.3dB	277	02H	15H	-52.3dB	327	02H	47H	-47.3dB	377	02H	79H	-42.3dB
228	01H	64H	-57.2dB	278	02H	16H	-52.2dB	328	02H	48H	-47.2dB	378	02H	7AH	-42.2dB
229	01H	65H	-57.1dB	279	02H	17H	-52.1dB	329	02H	49H	-47.1dB	379	02H	7BH	-42.1dB
230	01H	66H	-57.0dB	280	02H	18H	-52.0dB	330	02H	4AH	-47.0dB	380	02H	7CH	-42.0dB
231	01H	67H	-56.9dB	281	02H	19H	-51.9dB	331	02H	4BH	-46.9dB	381	02H	7DH	-41.9dB
232	01H	68H	-56.8dB	282	02H	1AH	-51.8dB	332	02H	4CH	-46.8dB	382	02H	7EH	-41.8dB
233	01H	69H	-56.7dB	283	02H	1BH	-51.7dB	333	02H	4DH	-46.7dB	383	02H	7FH	-41.7dB
234	01H	6AH	-56.6dB	284	02H	1CH	-51.6dB	334	02H	4EH	-46.6dB	384	03H	00H	-41.6dB
235	01H	6BH	-56.5dB	285	02H	1DH	-51.5dB	335	02H	4FH	-46.5dB	385	03H	01H	-41.5dB
236	01H	6CH	-56.4dB	286	02H	1EH	-51.4dB	336	02H	50H	-46.4dB	386	03H	02H	-41.4dB
237	01H	6DH	-56.3dB	287	02H	1FH	-51.3dB	337	02H	51H	-46.3dB	387	03H	03H	-41.3dB
238	01H	6EH	-56.2dB	288	02H	20H	-51.2dB	338	02H	52H	-46.2dB	388	03H	04H	-41.2dB
239	01H	6FH	-56.1dB	289	02H	21H	-51.1dB	339	02H	53H	-46.1dB	389	03H	05H	-41.1dB
240	01H	70H	-56.0dB	290	02H	22H	-51.0dB	340	02H	54H	-46.0dB	390	03H	06H	-41.0dB
241	01H	71H	-55.9dB	291	02H	23H	-50.9dB	341	02H	55H	-45.9dB	391	03H	07H	-40.9dB
242	01H	72H	-55.8dB	292	02H	24H	-50.8dB	342	02H	56H	-45.8dB	392	03H	08H	-40.8dB
243	01H	73H	-55.7dB	293	02H	25H	-50.7dB	343	02H	57H	-45.7dB	393	03H	09H	-40.7dB
244	01H	74H	-55.6dB	294	02H	26H	-50.6dB	344	02H	58H	-45.6dB	394	03H	0AH	-40.6dB
245	01H	75H	-55.5dB	295	02H	27H	-50.5dB	345	02H	59H	-45.5dB	395	03H	0BH	-40.5dB
246	01H	76H	-55.4dB	296	02H	28H	-50.4dB	346	02H	5AH	-45.4dB	396	03H	0CH	-40.4dB
247	01H	77H	-55.3dB	297	02H	29H	-50.3dB	347	02H	5BH	-45.3dB	397	03H	0DH	-40.3dB
248	01H	78H	-55.2dB	298	02H	2AH	-50.2dB	348	02H	5CH	-45.2dB	398	03H	0EH	-40.2dB
249	01H	79H	-55.1dB	299	02H	2BH	-50.1dB	349	02H	5DH	-45.1dB	399	03H	0FH	-40.1dB

**Digital mixer D-2000 Series**

Position			Gain(dB)	Position			Gain(dB)	Position			Gain(dB)	Position			Gain(dB)
U	L			U	L			U	L			U	L		
400	03H	10H	-40.0dB	450	03H	42H	-35.0dB	500	03H	74H	-30.0dB	550	04H	26H	-25.0dB
401	03H	11H	-39.9dB	451	03H	43H	-34.9dB	501	03H	75H	-29.9dB	551	04H	27H	-24.9dB
402	03H	12H	-39.8dB	452	03H	44H	-34.8dB	502	03H	76H	-29.8dB	552	04H	28H	-24.8dB
403	03H	13H	-39.7dB	453	03H	45H	-34.7dB	503	03H	77H	-29.7dB	553	04H	29H	-24.7dB
404	03H	14H	-39.6dB	454	03H	46H	-34.6dB	504	03H	78H	-29.6dB	554	04H	2AH	-24.6dB
405	03H	15H	-39.5dB	455	03H	47H	-34.5dB	505	03H	79H	-29.5dB	555	04H	2BH	-24.5dB
406	03H	16H	-39.4dB	456	03H	48H	-34.4dB	506	03H	7AH	-29.4dB	556	04H	2CH	-24.4dB
407	03H	17H	-39.3dB	457	03H	49H	-34.3dB	507	03H	7BH	-29.3dB	557	04H	2DH	-24.3dB
408	03H	18H	-39.2dB	458	03H	4AH	-34.2dB	508	03H	7CH	-29.2dB	558	04H	2EH	-24.2dB
409	03H	19H	-39.1dB	459	03H	4BH	-34.1dB	509	03H	7DH	-29.1dB	559	04H	2FH	-24.1dB
410	03H	1AH	-39.0dB	460	03H	4CH	-34.0dB	510	03H	7EH	-29.0dB	560	04H	30H	-24.0dB
411	03H	1BH	-38.9dB	461	03H	4DH	-33.9dB	511	03H	7FH	-28.9dB	561	04H	31H	-23.9dB
412	03H	1CH	-38.8dB	462	03H	4EH	-33.8dB	512	04H	00H	-28.8dB	562	04H	32H	-23.8dB
413	03H	1DH	-38.7dB	463	03H	4FH	-33.7dB	513	04H	01H	-28.7dB	563	04H	33H	-23.7dB
414	03H	1EH	-38.6dB	464	03H	50H	-33.6dB	514	04H	02H	-28.6dB	564	04H	34H	-23.6dB
415	03H	1FH	-38.5dB	465	03H	51H	-33.5dB	515	04H	03H	-28.5dB	565	04H	35H	-23.5dB
416	03H	20H	-38.4dB	466	03H	52H	-33.4dB	516	04H	04H	-28.4dB	566	04H	36H	-23.4dB
417	03H	21H	-38.3dB	467	03H	53H	-33.3dB	517	04H	05H	-28.3dB	567	04H	37H	-23.3dB
418	03H	22H	-38.2dB	468	03H	54H	-33.2dB	518	04H	06H	-28.2dB	568	04H	38H	-23.2dB
419	03H	23H	-38.1dB	469	03H	55H	-33.1dB	519	04H	07H	-28.1dB	569	04H	39H	-23.1dB
420	03H	24H	-38.0dB	470	03H	56H	-33.0dB	520	04H	08H	-28.0dB	570	04H	3AH	-23.0dB
421	03H	25H	-37.9dB	471	03H	57H	-32.9dB	521	04H	09H	-27.9dB	571	04H	3BH	-22.9dB
422	03H	26H	-37.8dB	472	03H	58H	-32.8dB	522	04H	0AH	-27.8dB	572	04H	3CH	-22.8dB
423	03H	27H	-37.7dB	473	03H	59H	-32.7dB	523	04H	0BH	-27.7dB	573	04H	3DH	-22.7dB
424	03H	28H	-37.6dB	474	03H	5AH	-32.6dB	524	04H	0CH	-27.6dB	574	04H	3EH	-22.6dB
425	03H	29H	-37.5dB	475	03H	5BH	-32.5dB	525	04H	0DH	-27.5dB	575	04H	3FH	-22.5dB
426	03H	2AH	-37.4dB	476	03H	5CH	-32.4dB	526	04H	0EH	-27.4dB	576	04H	40H	-22.4dB
427	03H	2BH	-37.3dB	477	03H	5DH	-32.3dB	527	04H	0FH	-27.3dB	577	04H	41H	-22.3dB
428	03H	2CH	-37.2dB	478	03H	5EH	-32.2dB	528	04H	10H	-27.2dB	578	04H	42H	-22.2dB
429	03H	2DH	-37.1dB	479	03H	5FH	-32.1dB	529	04H	11H	-27.1dB	579	04H	43H	-22.1dB
430	03H	2EH	-37.0dB	480	03H	60H	-32.0dB	530	04H	12H	-27.0dB	580	04H	44H	-22.0dB
431	03H	2FH	-36.9dB	481	03H	61H	-31.9dB	531	04H	13H	-26.9dB	581	04H	45H	-21.9dB
432	03H	30H	-36.8dB	482	03H	62H	-31.8dB	532	04H	14H	-26.8dB	582	04H	46H	-21.8dB
433	03H	31H	-36.7dB	483	03H	63H	-31.7dB	533	04H	15H	-26.7dB	583	04H	47H	-21.7dB
434	03H	32H	-36.6dB	484	03H	64H	-31.6dB	534	04H	16H	-26.6dB	584	04H	48H	-21.6dB
435	03H	33H	-36.5dB	485	03H	65H	-31.5dB	535	04H	17H	-26.5dB	585	04H	49H	-21.5dB
436	03H	34H	-36.4dB	486	03H	66H	-31.4dB	536	04H	18H	-26.4dB	586	04H	4AH	-21.4dB
437	03H	35H	-36.3dB	487	03H	67H	-31.3dB	537	04H	19H	-26.3dB	587	04H	4BH	-21.3dB
438	03H	36H	-36.2dB	488	03H	68H	-31.2dB	538	04H	1AH	-26.2dB	588	04H	4CH	-21.2dB
439	03H	37H	-36.1dB	489	03H	69H	-31.1dB	539	04H	1BH	-26.1dB	589	04H	4DH	-21.1dB
440	03H	38H	-36.0dB	490	03H	6AH	-31.0dB	540	04H	1CH	-26.0dB	590	04H	4EH	-21.0dB
441	03H	39H	-35.9dB	491	03H	6BH	-30.9dB	541	04H	1DH	-25.9dB	591	04H	4FH	-20.9dB
442	03H	3AH	-35.8dB	492	03H	6CH	-30.8dB	542	04H	1EH	-25.8dB	592	04H	50H	-20.8dB
443	03H	3BH	-35.7dB	493	03H	6DH	-30.7dB	543	04H	1FH	-25.7dB	593	04H	51H	-20.7dB
444	03H	3CH	-35.6dB	494	03H	6EH	-30.6dB	544	04H	20H	-25.6dB	594	04H	52H	-20.6dB
445	03H	3DH	-35.5dB	495	03H	6FH	-30.5dB	545	04H	21H	-25.5dB	595	04H	53H	-20.5dB
446	03H	3EH	-35.4dB	496	03H	70H	-30.4dB	546	04H	22H	-25.4dB	596	04H	54H	-20.4dB
447	03H	3FH	-35.3dB	497	03H	71H	-30.3dB	547	04H	23H	-25.3dB	597	04H	55H	-20.3dB
448	03H	40H	-35.2dB	498	03H	72H	-30.2dB	548	04H	24H	-25.2dB	598	04H	56H	-20.2dB
449	03H	41H	-35.1dB	499	03H	73H	-30.1dB	549	04H	25H	-25.1dB	599	04H	57H	-20.1dB

**Digital mixer D-2000 Series**

Position			Gain(dB)	Position			Gain(dB)	Position			Gain(dB)	Position			Gain(dB)
U	L			U	L			U	L			U	L		
600	04H	58H	-20.0dB	650	05H	0AH	-15.0dB	700	05H	3CH	-10.0dB	750	05H	6EH	-5.0dB
601	04H	59H	-19.9dB	651	05H	0BH	-14.9dB	701	05H	3DH	-9.9dB	751	05H	6FH	-4.9dB
602	04H	5AH	-19.8dB	652	05H	0CH	-14.8dB	702	05H	3EH	-9.8dB	752	05H	70H	-4.8dB
603	04H	5BH	-19.7dB	653	05H	0DH	-14.7dB	703	05H	3FH	-9.7dB	753	05H	71H	-4.7dB
604	04H	5CH	-19.6dB	654	05H	0EH	-14.6dB	704	05H	40H	-9.6dB	754	05H	72H	-4.6dB
605	04H	5DH	-19.5dB	655	05H	0FH	-14.5dB	705	05H	41H	-9.5dB	755	05H	73H	-4.5dB
606	04H	5EH	-19.4dB	656	05H	10H	-14.4dB	706	05H	42H	-9.4dB	756	05H	74H	-4.4dB
607	04H	5FH	-19.3dB	657	05H	11H	-14.3dB	707	05H	43H	-9.3dB	757	05H	75H	-4.3dB
608	04H	60H	-19.2dB	658	05H	12H	-14.2dB	708	05H	44H	-9.2dB	758	05H	76H	-4.2dB
609	04H	61H	-19.1dB	659	05H	13H	-14.1dB	709	05H	45H	-9.1dB	759	05H	77H	-4.1dB
610	04H	62H	-19.0dB	660	05H	14H	-14.0dB	710	05H	46H	-9.0dB	760	05H	78H	-4.0dB
611	04H	63H	-18.9dB	661	05H	15H	-13.9dB	711	05H	47H	-8.9dB	761	05H	79H	-3.9dB
612	04H	64H	-18.8dB	662	05H	16H	-13.8dB	712	05H	48H	-8.8dB	762	05H	7AH	-3.8dB
613	04H	65H	-18.7dB	663	05H	17H	-13.7dB	713	05H	49H	-8.7dB	763	05H	7BH	-3.7dB
614	04H	66H	-18.6dB	664	05H	18H	-13.6dB	714	05H	4AH	-8.6dB	764	05H	7CH	-3.6dB
615	04H	67H	-18.5dB	665	05H	19H	-13.5dB	715	05H	4BH	-8.5dB	765	05H	7DH	-3.5dB
616	04H	68H	-18.4dB	666	05H	1AH	-13.4dB	716	05H	4CH	-8.4dB	766	05H	7EH	-3.4dB
617	04H	69H	-18.3dB	667	05H	1BH	-13.3dB	717	05H	4DH	-8.3dB	767	05H	7FH	-3.3dB
618	04H	6AH	-18.2dB	668	05H	1CH	-13.2dB	718	05H	4EH	-8.2dB	768	06H	00H	-3.2dB
619	04H	6BH	-18.1dB	669	05H	1DH	-13.1dB	719	05H	4FH	-8.1dB	769	06H	01H	-3.1dB
620	04H	6CH	-18.0dB	670	05H	1EH	-13.0dB	720	05H	50H	-8.0dB	770	06H	02H	-3.0dB
621	04H	6DH	-17.9dB	671	05H	1FH	-12.9dB	721	05H	51H	-7.9dB	771	06H	03H	-2.9dB
622	04H	6EH	-17.8dB	672	05H	20H	-12.8dB	722	05H	52H	-7.8dB	772	06H	04H	-2.8dB
623	04H	6FH	-17.7dB	673	05H	21H	-12.7dB	723	05H	53H	-7.7dB	773	06H	05H	-2.7dB
624	04H	70H	-17.6dB	674	05H	22H	-12.6dB	724	05H	54H	-7.6dB	774	06H	06H	-2.6dB
625	04H	71H	-17.5dB	675	05H	23H	-12.5dB	725	05H	55H	-7.5dB	775	06H	07H	-2.5dB
626	04H	72H	-17.4dB	676	05H	24H	-12.4dB	726	05H	56H	-7.4dB	776	06H	08H	-2.4dB
627	04H	73H	-17.3dB	677	05H	25H	-12.3dB	727	05H	57H	-7.3dB	777	06H	09H	-2.3dB
628	04H	74H	-17.2dB	678	05H	26H	-12.2dB	728	05H	58H	-7.2dB	778	06H	0AH	-2.2dB
629	04H	75H	-17.1dB	679	05H	27H	-12.1dB	729	05H	59H	-7.1dB	779	06H	0BH	-2.1dB
630	04H	76H	-17.0dB	680	05H	28H	-12.0dB	730	05H	5AH	-7.0dB	780	06H	0CH	-2.0dB
631	04H	77H	-16.9dB	681	05H	29H	-11.9dB	731	05H	5BH	-6.9dB	781	06H	0DH	-1.9dB
632	04H	78H	-16.8dB	682	05H	2AH	-11.8dB	732	05H	5CH	-6.8dB	782	06H	0EH	-1.8dB
633	04H	79H	-16.7dB	683	05H	2BH	-11.7dB	733	05H	5DH	-6.7dB	783	06H	0FH	-1.7dB
634	04H	7AH	-16.6dB	684	05H	2CH	-11.6dB	734	05H	5EH	-6.6dB	784	06H	10H	-1.6dB
635	04H	7BH	-16.5dB	685	05H	2DH	-11.5dB	735	05H	5FH	-6.5dB	785	06H	11H	-1.5dB
636	04H	7CH	-16.4dB	686	05H	2EH	-11.4dB	736	05H	60H	-6.4dB	786	06H	12H	-1.4dB
637	04H	7DH	-16.3dB	687	05H	2FH	-11.3dB	737	05H	61H	-6.3dB	787	06H	13H	-1.3dB
638	04H	7EH	-16.2dB	688	05H	30H	-11.2dB	738	05H	62H	-6.2dB	788	06H	14H	-1.2dB
639	04H	7FH	-16.1dB	689	05H	31H	-11.1dB	739	05H	63H	-6.1dB	789	06H	15H	-1.1dB
640	05H	00H	-16.0dB	690	05H	32H	-11.0dB	740	05H	64H	-6.0dB	790	06H	16H	-1.0dB
641	05H	01H	-15.9dB	691	05H	33H	-10.9dB	741	05H	65H	-5.9dB	791	06H	17H	-0.9dB
642	05H	02H	-15.8dB	692	05H	34H	-10.8dB	742	05H	66H	-5.8dB	792	06H	18H	-0.8dB
643	05H	03H	-15.7dB	693	05H	35H	-10.7dB	743	05H	67H	-5.7dB	793	06H	19H	-0.7dB
644	05H	04H	-15.6dB	694	05H	36H	-10.6dB	744	05H	68H	-5.6dB	794	06H	1AH	-0.6dB
645	05H	05H	-15.5dB	695	05H	37H	-10.5dB	745	05H	69H	-5.5dB	795	06H	1BH	-0.5dB
646	05H	06H	-15.4dB	696	05H	38H	-10.4dB	746	05H	6AH	-5.4dB	796	06H	1CH	-0.4dB
647	05H	07H	-15.3dB	697	05H	39H	-10.3dB	747	05H	6BH	-5.3dB	797	06H	1DH	-0.3dB
648	05H	08H	-15.2dB	698	05H	3AH	-10.2dB	748	05H	6CH	-5.2dB	798	06H	1EH	-0.2dB
649	05H	09H	-15.1dB	699	05H	3BH	-10.1dB	749	05H	6DH	-5.1dB	799	06H	1FH	-0.1dB

**Digital mixer D-2000 Series**

Position			Gain(dB)	Position			Gain(dB)
	U	L			U	L	
800	06H	20H	0. 0dB	850	06H	52H	5. 0dB
801	06H	21H	0. 1dB	851	06H	53H	5. 1dB
802	06H	22H	0. 2dB	852	06H	54H	5. 2dB
803	06H	23H	0. 3dB	853	06H	55H	5. 3dB
804	06H	24H	0. 4dB	854	06H	56H	5. 4dB
805	06H	25H	0. 5dB	855	06H	57H	5. 5dB
806	06H	26H	0. 6dB	856	06H	58H	5. 6dB
807	06H	27H	0. 7dB	857	06H	59H	5. 7dB
808	06H	28H	0. 8dB	858	06H	5AH	5. 8dB
809	06H	29H	0. 9dB	859	06H	5BH	5. 9dB
810	06H	2AH	1. 0dB	860	06H	5CH	6. 0dB
811	06H	2BH	1. 1dB	861	06H	5DH	6. 1dB
812	06H	2CH	1. 2dB	862	06H	5EH	6. 2dB
813	06H	2DH	1. 3dB	863	06H	5FH	6. 3dB
814	06H	2EH	1. 4dB	864	06H	60H	6. 4dB
815	06H	2FH	1. 5dB	865	06H	61H	6. 5dB
816	06H	30H	1. 6dB	866	06H	62H	6. 6dB
817	06H	31H	1. 7dB	867	06H	63H	6. 7dB
818	06H	32H	1. 8dB	868	06H	64H	6. 8dB
819	06H	33H	1. 9dB	869	06H	65H	6. 9dB
820	06H	34H	2. 0dB	870	06H	66H	7. 0dB
821	06H	35H	2. 1dB	871	06H	67H	7. 1dB
822	06H	36H	2. 2dB	872	06H	68H	7. 2dB
823	06H	37H	2. 3dB	873	06H	69H	7. 3dB
824	06H	38H	2. 4dB	874	06H	6AH	7. 4dB
825	06H	39H	2. 5dB	875	06H	6BH	7. 5dB
826	06H	3AH	2. 6dB	876	06H	6CH	7. 6dB
827	06H	3BH	2. 7dB	877	06H	6DH	7. 7dB
828	06H	3CH	2. 8dB	878	06H	6EH	7. 8dB
829	06H	3DH	2. 9dB	879	06H	6FH	7. 9dB
830	06H	3EH	3. 0dB	880	06H	70H	8. 0dB
831	06H	3FH	3. 1dB	881	06H	71H	8. 1dB
832	06H	40H	3. 2dB	882	06H	72H	8. 2dB
833	06H	41H	3. 3dB	883	06H	73H	8. 3dB
834	06H	42H	3. 4dB	884	06H	74H	8. 4dB
835	06H	43H	3. 5dB	885	06H	75H	8. 5dB
836	06H	44H	3. 6dB	886	06H	76H	8. 6dB
837	06H	45H	3. 7dB	887	06H	77H	8. 7dB
838	06H	46H	3. 8dB	888	06H	78H	8. 8dB
839	06H	47H	3. 9dB	889	06H	79H	8. 9dB
840	06H	48H	4. 0dB	890	06H	7AH	9. 0dB
841	06H	49H	4. 1dB	891	06H	7BH	9. 1dB
842	06H	4AH	4. 2dB	892	06H	7CH	9. 2dB
843	06H	4BH	4. 3dB	893	06H	7DH	9. 3dB
844	06H	4CH	4. 4dB	894	06H	7EH	9. 4dB
845	06H	4DH	4. 5dB	895	06H	7FH	9. 5dB
846	06H	4EH	4. 6dB	896	07H	00H	9. 6dB
847	06H	4FH	4. 7dB	897	07H	01H	9. 7dB
848	06H	50H	4. 8dB	898	07H	02H	9. 8dB
849	06H	51H	4. 9dB	899	07H	03H	9. 9dB
				900	07H	04H	10. 0dB

Revision history

Version	Amendment day	The contents of establishment / change
1.00	Jul.23/2009	First edition establishment
1.01	Aug.27/2009	Correction of writing errors
1.02	Nov.5/2009	Added Gate Status
2.00	Apr.15/2010	Added Fader Group, Fader Group Trim, Channel Mute On/Off, Fader Layer Change, Console Function Switch
2.01	Jun.5/2010	Added Channel Fader Fine Gain
4.00	Jun.11/2010	Changed this document's version according to D-2008SP's firmware version. Integrated documents of TCP/IP with Serial(RS-232C)
4.01	July.16/2010	Correction of writing errors