



향후 참조를 위해 이 설명서를 보관하십시오.

디지털 프로덕션 콘솔

DM 2000

사용 설명서

YAMAHA MUSIC KOREA LTD.

- AC
- 가 가
- 가
- 가
- AC , AC 가 가
- 가 3 (three-prong plug) , AC 가 가
- 가
- 가 ,가
- 가 가 ,
- DM2000 YGDAI 6
- , Yamaha DM2000 (Yamaha 3)
- - Yamaha가DM2000
- 가 (,),
- , , AC 가
- , AC
- 가
- - 가
- - 가 가

- AC
-
- 가
- 가
- (가) ,
- ,
- MB2000 , MB2000 가
- MB2000 DM2000 2 ,DM2000 MB2000
- ,AC ,
- 가 ,AC
- 가
- AC
- XLR 1: , 2: (+), 3: (-).
- TRS : , : , : .
- , , , 가
- 가
- "WARNING Low Battery!(!)" 가 ,가 가
- ,MIDI (Bulk Dump)
- TV
- D- , ,
- 가
- ,DM2000 가 , MY8-AT I/O 가
- 가

- CARD()
-
-
-
-
- (gold contacts)
-
-
- 가(:)
- 가
- 가 CARD()
-
-
- CARD()
-
- - ()

DM2000

가

DM2000

DM2000

ADAT MultiChannel Optical Digital Interface Alesis Corporation ADAT
 Alesis Alesis Corporation . Apogee Apogee Electronics, Inc.
 . Apple, Mac Power Macintosh Apple Corporation, Inc. Mac OS
 Apple Corporation, Inc. . HUI Mackie Designs, Inc. . Intel
 Pentium Intel Corporation . Nuendo Steinberg Media Technologies
 AG . Pro Tools Digidesign Avid Technology, Inc.
 . SmartMedia Toshiba, Corp. . Sony Sony Corporation, Inc.
 . Tascam Digital Interface Teac Corporation Tascam Teac
 Teac Corporation . Microsoft Windows Microsoft Corporation, Inc.
 . Waves Waves, Inc. . Yamaha Yamaha Corporation

DM2000 , Yamaha Corporation

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Yamaha

Yamaha
 <<http://www.yamaha.co.jp/product/proaudio/homeenglish/>> DM2000
 Yamaha

- DM2000 (Digital Production Console)
- CD-ROM
-
-
- MB2000 (Peak Meter Bridge)
- SP2000
- LA1800 (Light Gooseneck)
- YGDAI I/O

DM2000

DM2000
 , 35 " "

DM2000
 (Input Channel)", " (Bus Out)", " (Aux Send)", " (Matrix
 Send)", " (Stereo Out)"
 가

, 103 " "
 (Input Channel), (Bus Out), (Aux Send),
 (Matrix Send), (Stereo Out) " "

DM2000 (: ENTER, DISPLAY)
 "[ENTER]"
 "ENTER"

(Display) [DISPLAY] Left Tab Scroll(), Right
 Tab Scroll() F1
 , [DISPLAY]
 36 "Display"

DM2000

DM2000

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Yamaha DM2000
 DM2000 , 24-
 /96 kHz ,
) control .
 DAW(Digital Audio Workstation:

- (Linear) 24- , 64 A/D (converter)
- (Linear) 24- , 8 D/A (converter)
- 96 kHz 20 Hz - 40 kHz (0.5, - 1.5 dB)
- 108 dB (Dynamic Range)(AD (Input)~ (Stereo Out))
- 32- (58- (accumulator))
- 96 (Direct Out)
- 8 (Bus Out) (Stereo Out) (routing)
- 12 (Aux Send)
- 4 (Stereo Matrix Send)(22 × 8)
- (Stereo Out)
- 가
- 127 (User Memory)
-

I/O

- XLR 24 / (48 V)
- / 24
- 6 -YGDAI I/O 48 48 .
 I/O AES/EBU, ADAT, Tascam TDIF-1, mLAN
- 8 가 (Omni)
- 2 AES/EBU, 1 2-
- 2 AES/EBU, 1 2-
- 2 2-
- XLR
- (Control room output)
- (Studio Monitor output)
- 44.1/48 kHz (Digital Audio)
 (Sampling rate converter) AES/EBU, Coaxial I/O
- 44.1/48 kHz I/O(Double channel digital I/O)
- 4 DM2000(: 384 (Input Channel)) Cascade port

I/O

- 가 (Input Channel), (Insert In), (Effect Input) 가 (Direct Out), (Insert Out), (Bus Out), (Aux Send), (Matrix Send), (Stereo Out) 가
- 가 (Input & Output Patch) 가

EQ GEQ

- 4 (parametric) (EQ)
- (EQ) (40 , 160 (User Memory))
- 6 31
- 128 GEQ

(Pair)

- (Input Channel) (pairing)
- (Bus Out), (Aux Send), (Surround Pan) (pairing)
- 8 (Fader)
- 8 (Mute)
- 4 (Input Channel), 4 (Output Channel) (EQ)
- 4 (Input Channel), 4 (Output Channel) (Compressor)

(Effect)

- 8 (Effect processor)
- (Effect) (52 , 76 (User Memory))
- (Early reflection) (Reverb) 5.1
- 56K (Effect)
- MIDI (Learning) (Effect) (User defined)

(Dynamics)

- 96 (Input Channel) (Gate)
- (Gate) (4 , 124 (User Memory))
- (Input Channel) (Output Channel) (Compressor)(126)
- (36 , 92 (User Memory))

(Automix)

- 1/4 (Automation) (parameter)
- 16 (Automix)
- MIDI/ (recall) 99 Scene Memory (Snapshot style) (Automix)
- (Input & Output fader)
- (Scene)
- [AUTO()] , (parameter) / (Punch In/Out)
- (Fader) (return), (takeover), / (Absolute/Relative mode)
- (erase), (copy), / (move/merge), (trim), (duplicate), (delete), (Insert)

- 3 - 1 5.1
- (control)
-
-
-
- 32 (User Memory) (Surround monitor)

(Remote Control)

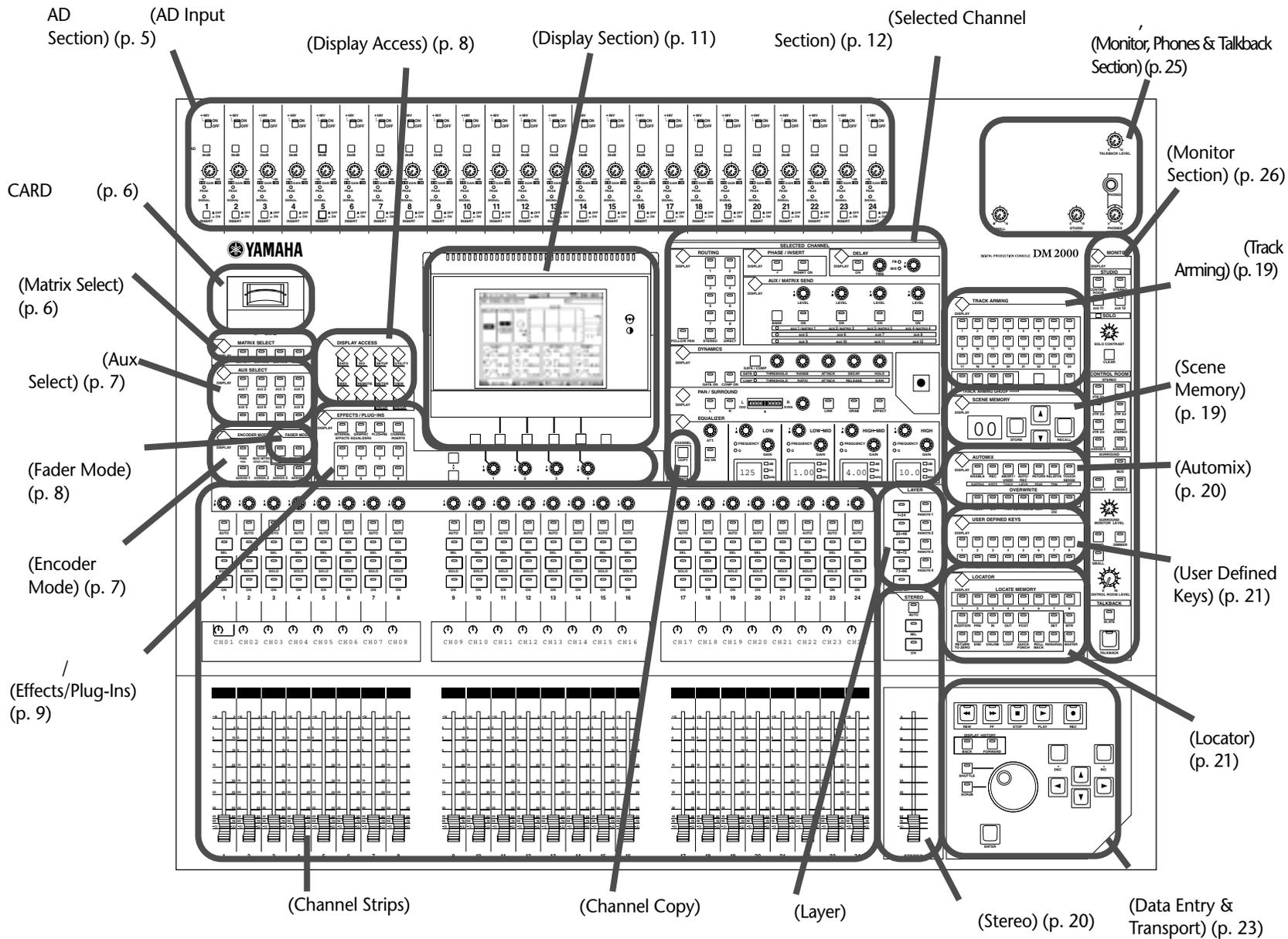
- () Studio Manager Mac PC DM2000
- DAW (control) , (Learning) MIDI (Remote Layer)
- 8 (Locate Memory) (transport), (track arming), / (jog/shuttle), (built-in locator) MMC P2 Master/MTR
- " " (Assign) 7† GPI(General Purpose Interface:)
- 12 Yamaha AD824 A/D (converter) (amp) (Remote control)

MIDI

- MIDI , USB TO HOST , SERIAL TO HOST mLAN MIDI I/O
- USB, SERIAL mLAN
- Scene recall, control, (Bulk Dump), (Automix) MTC MIDI (Clock), MMC control

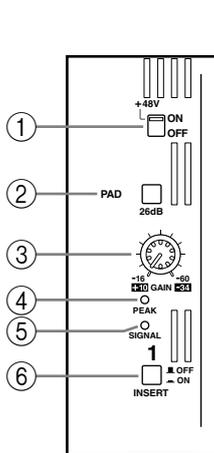
(Control Panel)

- 25 100 mm (/ (punch in/out)
- (fader) / (Aux/Matrix Send)
- 24 (encoder) (Pan), / (Aux/Matrix Send) , (User assigned parameter)
- 4 (Input Layer), (Master Layer), 4 (Remote Layer)
- 320 x 240 (display)
- , , (routing) (channel strip display)
- SELECTED CHANNEL
- Scene Memory 2 (digit)
- , , Q 4
- 16
- Display History
- (Automix), Scene, (library), (setup)
- (Quick title entry) PS/2-



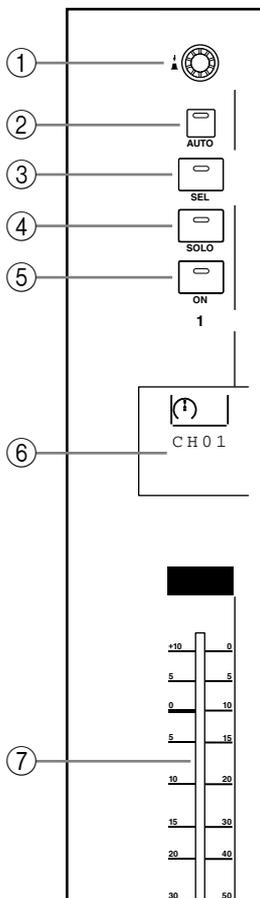
2 (Control)

AD (AD Input Section)



- AD 1
- ① **+48V ON/OFF**
INPUT A (XLR) +48 V (Phantom)
48 " (Phantom) "
 - ② **PAD**
AD 26 dB ((attenuator)
48 " (Pad)"
 - ③ **GAIN control**
AD (AD Input Head Amp) controller 가
-16 dB ~ -60 dB +10 dB ~ -34 dB
48 " (Gain)"
 - ④ **PEAK indicator**
(clipping) 3 dB indicator가
48 " (PEAK) (SIGNAL) "
 - ⑤ **SIGNAL indicator**
20 dB indicator가
48 " (PEAK) (SIGNAL) "
 - ⑥ **INSERT ON/OFF**
AD (AD Input Insert) 49
"AD (AD Insert)"

(Channel Strips)



- Channel Strip 1
- Channel Strip 42
- ① **Encoder()**
(Input & Output Channel parameter)
control (Encoder) (Layer)
Pan() Aux/Mtrx(/) 2가
, 가 4가 , 40가
45 " (Encoder Mode) "
 - ② **AUTO**
(Automix) indicator
"Channel Strip [AUTO]" 169
 - ③ **SEL**
SELECTED CHANNEL (Input & Output Channel)
[SEL] indicator가 43 "
 - 41 " (Channel Name)"
(pairing) , (EQ), (Comp), [SEL] (Fader), (Mute)
가

④ SOLO

118 " [SOLO] indicator가 (Channel Soloing)"

⑤ ON

(Input & Output Channel) [ON] indicator가

⑥ Channel Strip Display

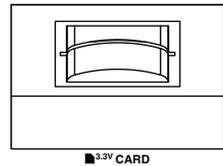
(Fluorescent display) (encoder) (Input or Output Channel) (parameter) (routing) , (EQ), (Insert), (Delay), (Comp) (Gate) / 38 "Channel Strip Display"

⑦ Channel Fader()

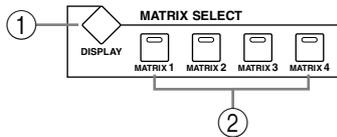
Input channel, (Output Channel), (Aux Send) (Matrix Send)(Matrix Send) 100 mm 44 (Fader Mode) " 74 " (Input Channel Fader) " 122 " (Output Channel Fader) " (Input & Output Channel) 44 " (Auto Channel Select) (Touch Sense Select)" (Automix) / (Punch In/Out) 175 " / (Parameter Punch In & Out)"

CARD

CARD (Setup), Scene, (Automix), (Library) DM2000 (3.3 V) 231 " (SmartMedia) DM2000 "



(Matrix Select)



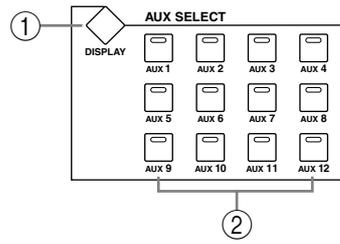
① MATRIX SELECT DISPLAY

(Matrix View) (Matrix Send), (Matrix Send Pan), (Matrix Send)" 97 "

② MATRIX 1~4

(Bus Out), (Aux Send), (Stereo Out) (Matrix Send) (Matrix Send) indicator가 97 " (Matrix Send)"

(Aux Select)



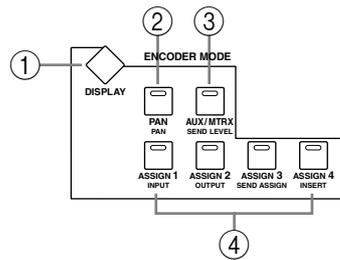
① AUX SELECT DISPLAY

(Aux Send), (Aux Send Pan), (Input Channel Aux View) (Aux Send)" 88 " (Aux Send)"

② AUX 1-12

(Aux Send) (Aux Send) indicator가 (Aux Send) (Aux Send) (pair) (Aux Send) (pair) (Channel Pairing)" 88 " (pairing) , indicator가 120 " (Aux Send) (pair) (Channel Pairing)"

(Encoder Mode)



ASSIGN DAW Remote Layer 217 (Remote Layer) "

① ENCODER MODE DISPLAY

Encoder Mode Assign 45 " (Encoder Mode) "

② PAN

(Pan Encoder) indicator가 , 가 controller (Matrix Send) controller (Encoder) 21~24가 45 " (Encoder Mode) "

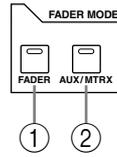
③ AUX/MTRX

(Aux/Mtrx Encoder) indicator가 , 가 가 (Aux Send) level control (Master Layer) , 1~20 (Matrix Send) level control 45 " (Encoder Mode)"

④ ASSIGN 1-4

가 , indicator가 (parameter) .40 4 , 4 "ENCODER MODE Assign 46 " .

(Fader Mode)



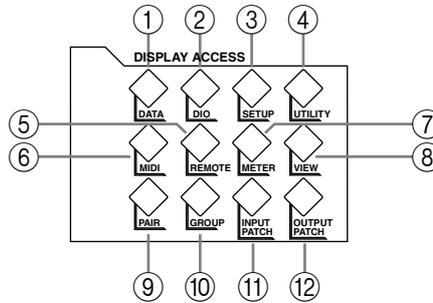
① FADER

가 indicator가
44 " (Fader Mode) "

② AUX/MTRX

가 (Aux Send)
(Matrix Send) / (Aux/Matrix Fader)
(Fader Mode) " indicator가 44 "

(Display Access)



① DATA

DM2000 (Save) (Load)
231 " (SmartMedia) DM2000 "

② DIO(Digital I/O)

(Word Clock Select), (Dither), 가 (Cascade In), 가
(Cascade Out), (Sampling Rate Converter),
(Higher Sampling Rate Data Format) 50
" I/O (Cascading)"

③ SETUP

Preferences 1, Preferences 2, Preferences 3, MIDI/TO HOST Setup, GPI Setup,
(Input Port Name), (Output Port Name), (Time Reference),
(Time Signature), (Remote Setup)

④ UTILITY

(Oscillator), (Channel Status Monitor),
(Battery Check)

⑤ REMOTE

Remote 217 "

⑥ MIDI

MIDI Setup(MIDI), (Program Change Assign
Table), (Control Change Assign Table), (Bulk Dump)
182 "MIDI"

⑦ METER

(Input Channel Meter), (Master Meter), /
(Effect Input/Output Meter), 1-2 / (Effect 1-2 Input/Output Meter),
1-8 / (Effect 1-8 Input/Output Meter), (Stereo Meter),
(Metering Position) " (Metering)"

⑧ VIEW

(Parameter View), (Fader View), (Channel
Library) 124 "
(Output Parameter) ", 125 " (Channel Fader) " 140
(Channel) "

⑨ PAIR

(Input & Output Pair)
120 " (Channel Pairing)"

⑩ GROUP

(Fader) , (Mute) , (Output Fader) ,
(Output Mute) , (Input Equalizer Link), (Output
Equalizer Link), (Input Comp Link), (Output Comp Link)

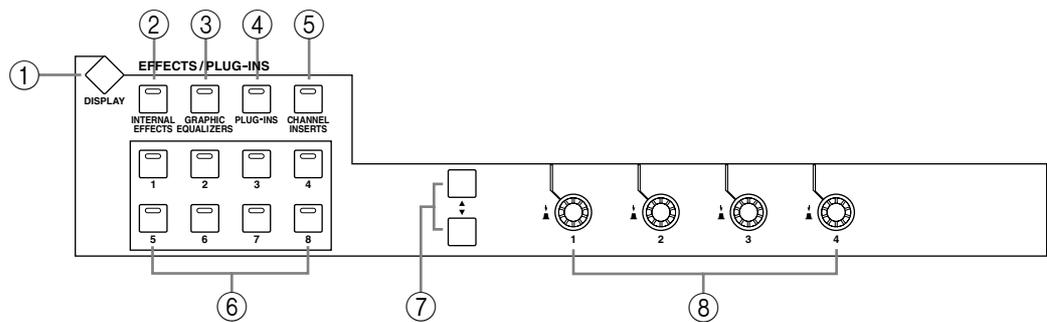
⑪ INPUT PATCH

(Input Channel Patch), (Input Channel Insert
In Patch), 1-2 (Effect 1-2 Input Patch), 3-8 (Effect 3-8 Input Patch),
(Input Channel Name), 61 " (Input Patch Library)
(Input Patch)"

⑫ OUTPUT PATCH

(Slot Output Patch), (Omni Out Patch),
(Output Inserter In Patch), (Input Channel Direct Out Destination), 2TR
(2TR Out Digital), (Graphic Equalizer Insert),
(Output Channel Name), (Output Patch Library)
63 " (Output Patch)"

/ (Effects/Plug-Ins)



① EFFECTS/PLUG-INS DISPLAY

(Effect Edit), (Effect Library),
(Graphic Equalizer Edit), (Graphic Equalizer Library),
(Plug-in Setup), (Plug-in Edit)
148 " (Internal Effect), (Plug in), GEQ"

② INTERNAL EFFECTS

EFFECTS/PLUG-INS [1-8]
indicator가 150 " (Effect
Edit)"

③ GRAPHIC EQUALIZERS

EFFECTS/PLUG-INS [1-6] GEQ
indicator가 155 "GEQ (GEQ Edit)"

④ PLUG-INS

EFFECTS/PLUG-INS [1-8]
indicator가 . 153 " (Plug-in Edit)" .

⑤ CHANNEL INSERTS

Y56K
, (Effect Edit) (Plug-in Edit) 가
, indicator가 . [SEL] indicator가
, EFFECTS/PLUG-INS [1-8] indicator가 .
가 . 150 "
(Effect Edit)" 153 " (Plug-in Edit)" .

⑥ EFFECTS/PLUG-INS 1~8

EFFECTS/PLUG-INS [INTERNAL EFFECTS], [GRAPHICEQUALIZERS], [PLUG-INS]
, GEQ (Plug-in)
, GEQ indicator가 . GEQ
6 , [GRAPHICEQUALIZERS] indicator가 [7] [8]
.EFFECTS/PLUG-INS [CHANNELINSERTS] indicator가 ,

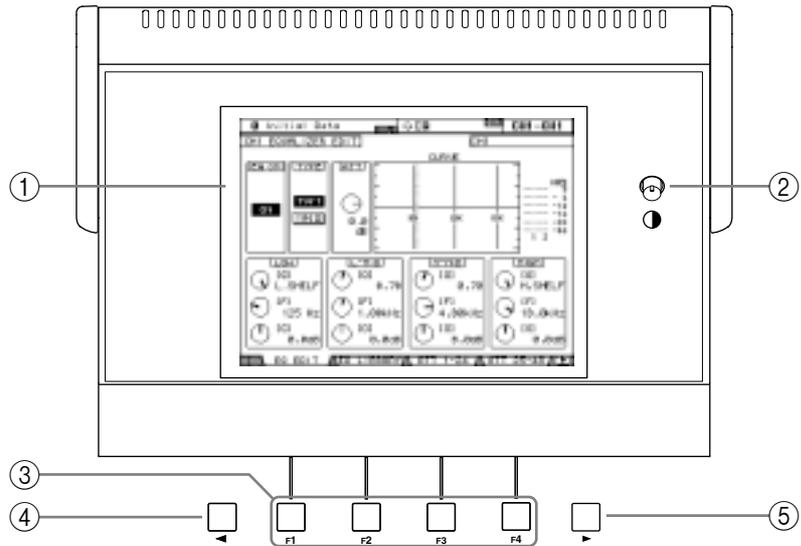
⑦ Parameter Up/Down

Parameter control 1-4 (Effect Processor)
가 .
16 .
가 . 150 " (Effect Edit)"
153 " (Plug-in Edit)" .

⑧ Parameter Control 1-4

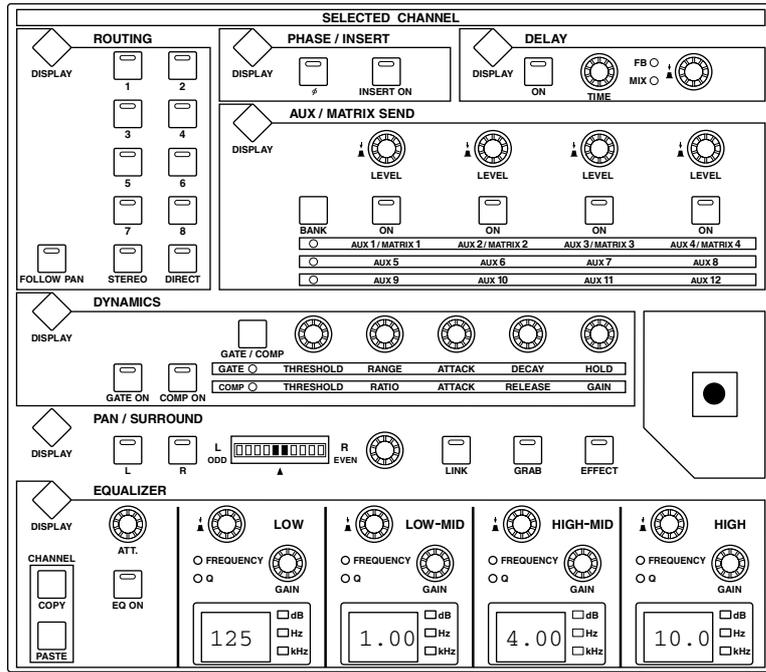
Rotary control (Push Switch) . Rotary control
(Effect Processor), GEQ .
(Effect Edit) , control
, Parameter Up/Down .
(Graphic Equalizer Edit) , Parameter Control 1
Parameter Control 4 . Parameter Control 2
3 . 150 " (Effect Edit)" , 153
" (Plug-in Edit)" 155 "GEQ (GEQ Edit)"
Rotary control
(Automix) punch in/out . 175
"Parameter Punch In & Out" .

(Display Section)



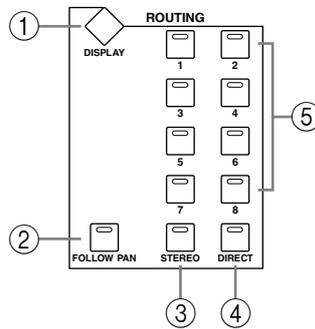
- ① Display()
320 x 240 , Scene
(sampling rate) . 35
(Display) " . "
- ② Contrast() control
control .
- ③ F1-F4
" (Display) " . 36
- ④ Left Tab Scroll()
가 ,
(Display) " . 36 "
- ⑤ Right Tab Scroll()
가 ,
(Display) " . 36

(Selected Channel Section)



SELECTED CHANNEL()

(Routing)



① **ROUTING DISPLAY**

Input Channel Routing, Bus to Stereo, Bus to Stereo Library

75 " (Input Channel Routing)" 87
 " (Stereo Out) " (Bus Out) "

② **FOLLOW PAN**

(Bus Out)

75 " (Input Channel Routing)"

③ **STEREO**

Input channel (Stereo Out) (routing)

indicator 75 " (Input Channel Routing)"

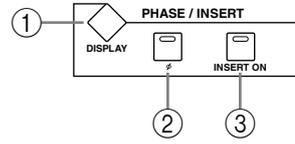
④ **DIRECT**

Input channel (Direct Out)

indicator 75 " (Input Channel Routing)"

⑤ ROUTING 1-8

Input channel (Bus Out) (routing)
 Input channel (Bus Out) indicator가 .75 "
 (Input Channel Routing)"
 / (Phase/Insert)



① PHASE/INSERT DISPLAY

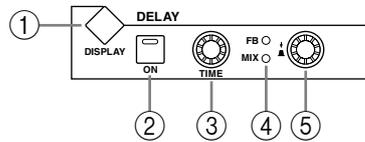
" (Signal Phase) " 111 " (Insert) " 68

② Phase() [φ]

indicator가 . 68 " (Signal Phase) "

③ INSERT ON

.111 " (Insert) " . Insert indicator가



① DELAY DISPLAY

Delay .117 " (Channel
 Signal Delay)"

② ON

indicator가 .117 " (Channel Signal Delay)"

③ TIME control

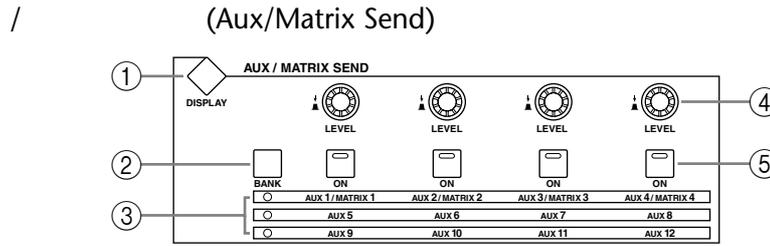
" (Channel Signal Delay)" control .117

④ FB/MIX indicator

FB/MIX Control (Feedback Gain) (Feedback Mix)
 indicator . Feedback Gain
 FB indicator가 , Feedback Mix MIX indicator가
 .117 " (Channel Signal Delay)"

⑤ FB/MIX control

Rotary control (Push switch) ,
 (FB) (MIX) .
 Rotary control (Feedback Gain)
 (Feedback Mix) .117 " (Channel Signal
 Delay)"



① **AUX/MATRIX SEND DISPLAY**

. Input channel (Aux Send), (Matrix Send), (Aux Send Pan) , (Input Channel Aux View) 가 (Matrix Send), (Matrix Send Pan) (Matrix View) 가

② **BANK**

AUX/MATRIX LEVEL control [ON] (Aux) 1-4/ (Matrix) 1-4, (Aux) 5-8, (Aux) 9-12 (Output Channel) , (Aux) 1-4/ (Matrix) 1-4 가 "SELECTED CHANNEL AUX/MATRIX SEND LEVEL control "

③ **Bank indicator**

[BANK] indicator / (Aux/Matrix Send) (Output Channel) , (Aux) 1-4/ (Matrix) 1-4 가

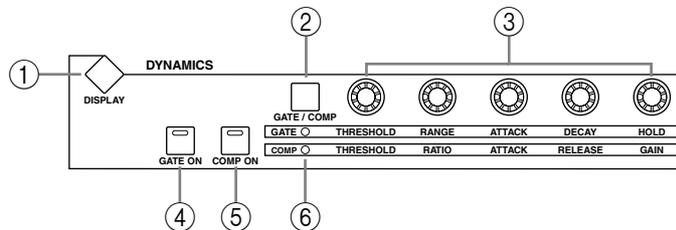
④ **LEVEL control**

[BANK] (Aux) (Matrix Send) control . Input channel (Aux Send) (Stereo Out) , (Bus Out), (Aux Send) (Matrix Send) 88 " (Aux Send) " 97 " (Matrix Send)

⑤ **ON**

[BANK] / (Aux/Matrix Send) indicator 가 Input Channel (Aux Send) 가 (Aux Send) (Stereo Out) , (Matrix Send) (Bus Out), " 91 " (Aux Send Mute)(/)" 98 (Matrix Send Mute)(/)" .

(Dynamics)

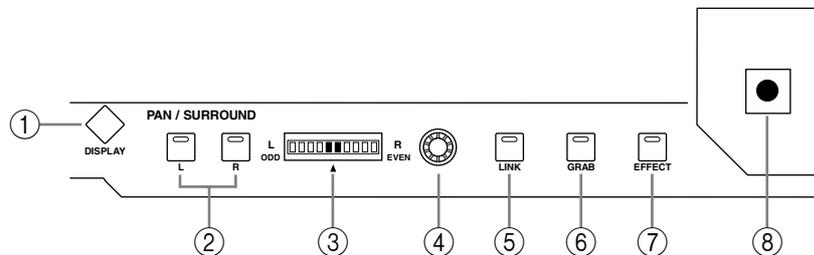


① **DYNAMICS DISPLAY**

(Gate Edit), (Gate Library), (Comp Edit), (Comp Library) . 69 " (Input Channel Gating)" 113 " (Channel Compressing)" .

- ② **GATE/COMP**
 (Gate) (Compressor) rotary control
 (compressor)가
 69 " (Input Channel Gating)" 113
 " (Channel Compressing)"
- ③ **THRESHOLD, RANGE, ATTACK, DECAY, HOLD(THRESHOLD), RATIO, ATTACK, RELEASE, GAIN) control**
 GATE/COMP(/) (Gate)
 (Input Channel Gate) (Threshold), (Range), (Attack),
 (Decay), (Hold) (parameter) control (Compressor)
 (Threshold), (Ratio), (Attack),
 (Release), (Gain) 69 " " (Channel Compressing)"
 (Input Channel Gating)" 113
- ④ **GATE ON**
 Input channel (Gate)
 indicator가 (Input
 Channel Gating)" 69 " (Input
- ⑤ **COMP ON**
 (compressor)
 (compressor) indicator가 113 " (Channel Compressing)"
- ⑥ **GATE/COMP indicator**
 Rotary control가 GATE COMP
 indicator GATE indicator가 ,
 COMP indicator가 69 " (Channel Compressing)"
 (Input Channel Gating)" 113 " (Channel Compressing)"

/ (Pan/Surround)



- ① **PAN/SURROUND DISPLAY**
 (Input Channel Pan) (Surround Mode)
 .76 " (Input Channel Panning)" 77
 " (Surr. Pan) "
- ② **L R**
 Input & Output Channel
 (Matrix Send) (Stereo Out) ,
 . Input Channel ,
 [L] indicator가 ,
 [R] indicator가 . Gang() Inverse Gang() ,
 indicator가 .
- ③ **PAN** (display)
 10 , Input Channel
 가 가 .
 (Matrix Send) (Stereo Out) , 가 .

④ **PAN control**
 Input channel (Stereo Out) Rotary control (Matrix Send)
 Channel , Gang() Inverse Gang() , . Input
 Panning)", 84 " (76 " (Input Channel
 (Matrix Send) (Stereo Out Balancing)" 101 "
 (Balancing)).

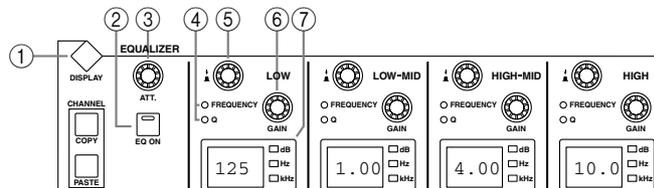
⑤ **LINK**
 가 , PAN
 control(Joystic control) control
 . Input channel
 . PAN() control indicator가
 (control effect) (, [EFFECT] indicator가)
 . 76 " (Input Channel Panning)" 77
 " (Surr. Pan) "

⑥ **GRAB**
 가 ,
 Input Channel (Joystic control) (Grab)
 indicator가 Input Channel
 (Grab) ,
 . PAN control
 (, [LINK] indicator가), PAN control
 (control effect) (, [EFFECT] indicator
 가),

⑦ **EFFECT**
 5.1 (Reverb 5.1 effect)
 . 5.1 (Reverb 5.1 effect control) indicator가
 286
 "REVERB() 5.1"

⑧ **Joystick()**
 (Surround panning), (Normal panning) 5.1
 Parameter control control . [EFFECT] indicator가
 . 5.1 control 286
 "REVERB 5.1" . [EFFECT] indicator가 [GRAB()]
 indicator가 control
 . [EFFECT] [GRAB] indicator가 ,
 77
 " (Surr. Pan) " . [EFFECT] indicator
 [GRAB] [LINK] indicator , PAN control
 76 "
 (Input Channel Panning)" .

(Equalizer)



① **EQUALIZER DISPLAY**
 (EQ Edit), (EQ Library),
 / (Input Channel Attenuator/Converter), (Output Attenuator)

② EQ ON

indicator가 . 107 " (EQ) "

③ ATT control

. 106 " (Signal Attenuating)" controller

④ FREQUENCY/Q indicator

FREQUENCY/Q control Q controller가 , Q indicator Q indicator가 107 " (EQ)

⑤ FREQUENCY/Q control

Rotary control (Push switch) Q /Q indicator Rotary control " (EQ) " Q 107

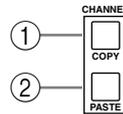
⑥ EQ GAIN control

(EQ band) control . 107 " (EQ) "

⑦ EQ

(display) (Gain) , (Gain) Q " (EQ) " .Q ,Q .2 107

(Channel Copy)



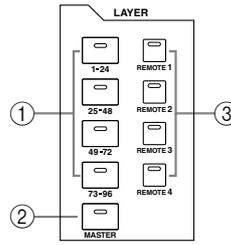
① COPY

(Copy) . 129 " (Channel Setting Copying)"

② PASTE

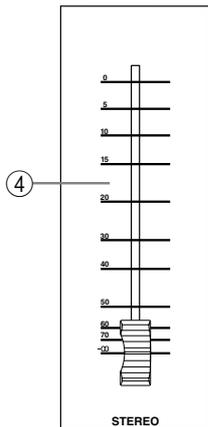
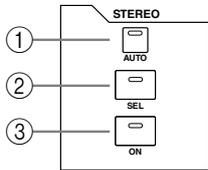
(Copy) . 129 " (Channel Setting Copying)"

(Layer)



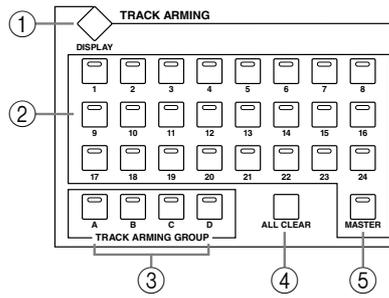
- ① **1-24, 25-48, 49-72 73-96**
 (channel strip)
 Channel Layer
 42 " Input channel (Layer) LAYER indicator가 (Input Layer)
- ② **MASTER**
 (Channel Strip)
 (Matrix Send) indicator가 (Bus Out), (Master Layer) (Aux Send), 42 " (Layer)
- ③ **REMOTE 1-4**
 DAW()
 42 " Remote Layer (Layer) LAYER indicator가 Remote Layer (Remote Layer) "

(STEREO)



- ① **AUTO**
 (Stereo Out) (Automix)
 indicator가 169 " (Channel Strip) [AUTO] "
- ② **SEL**
 Stereo Out() [SEL] SELECTED CHANNEL (Stereo Out) (Stereo Out) indicator가 43 " (EQ), (Comp), (Fader), (Mute) (Stereo Out) 가 "
- ③ **ON**
 (Stereo Out) (Stereo Out) indicator가 83 " (Stereo Out Mute)(/)"
- ④ **Fader**
 100 mm (touch-sensitive motorized fader) (Stereo Out) 83 " (Stereo Out) " (Output Channel) (Output Channel) Fader " (Stereo Out) 122 " (Auto Channel Select) (Stereo Out) , 44 " (Touch Sense Select)", (Automix) (Stereo Out) / (Parameter Punch In & Out)" 175 " / ().

(Track Arming)



① TRACK ARMING DISPLAY

(Track Arming Group), MTR (MTR Track Arming Setup),
 (Master Track Arming Setup)
 225 " (Machine Track Arming)"

② TRACK ARMING 1~24

(Target machine)(DAW, MMC P2)
 indicator가 225 "
 (Machine Track Arming)"

③ TRACK ARMING GROUP A-D

A, B, C, D indicator
 가 225 " (Machine Track Arming)"

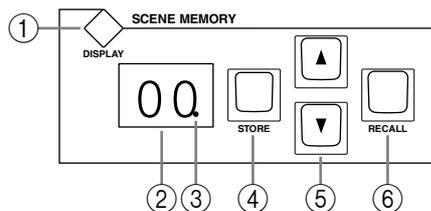
④ ALL CLEAR

(Target machine)(DAW, MMC P2)
 225 " (Machine Track Arming)"

⑤ MASTER

(Master) MTR
 indicator가 , MTR 220 "
 (MMC P2) "

Scene Memory



① SCENE MEMORY DISPLAY

Scene Memory, (Input Channel Fade Time),
 (Output Fade Time), Recall Safe, Scene Memory Sort
 157 " (Scene Memory)"

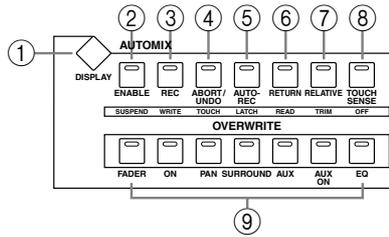
② Scene Memory Display

Scene Memory 157 "Scene
 Memory"

③ Edit () indicator

157 " (Edit Buffer) (Edit Indicator)"

- ④ **STORE**
 Scene Memory
 "SCENE MEMORY Scene " 159
 - ⑤ **Scene Up/Down**
 Scene Memory Scene Up [▲] 가
 , Scene Down [▼]
 가/ 159 "SCENE MEMORY Scene
 "
 - ⑥ **RECALL**
 Scene Memory 159
 "SCENE MEMORY Scene "
- (Automix)**



AUTOMIX DAW() Remote
 Layer 217 " (Remote Layer) "

- ① **AUTOMIX DISPLAY**
 (Automix Main), (Automix Memory),
 (Input Channel Fader Edit), (Event Copy), (Event Edit)
 " " " (Automix)"
 164
- ② **ENABLE**
 (Automix Main) (Automix) 가
 " ENABLED/DISABLED " 165
 (Automix Main)
- ③ **REC**
 REC() (Automix) (Automix Main)
 " " 168 "REC"
- ④ **ABORT/UNDO**
 (Automix Main) (Automix) 168
 "ABORT()" ABORT " 168
 (Auto mix Main) UNDO (Automix)
 " "UNDO" (Automix)
 167
- ⑤ **AUTO-REC**
 (Automix) (Auto-Rec)
 (Automix Main) ENABLED/DISABLED
 168 "AUTO REC"
- ⑥ **RETURN**
 (Automix Edit Out mode)
 (Automix Main) EDIT OUT RETURN
 166 "EDIT OUT"

⑦ RELATIVE

(Auto Mix Fader Edit)
 (Automix Main) FADER EDIT
 167 "FADER EDIT"

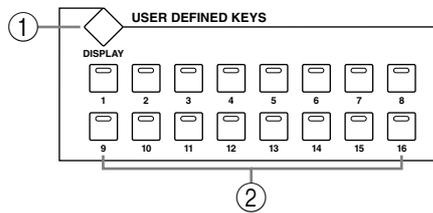
⑧ TOUCH SENSE

(Automix) (Fader Touch Sense)
 (Fader Edit) TOUCH SENSE
 170 " (Fader Edit) "

⑨ FADER, ON, PAN, SURROUND, AUX, AUX ON EQ

(Automix) (parameter)
 (Automix Main) (Memory)
 167 "OVERWRITE"

(User Defined Keys)



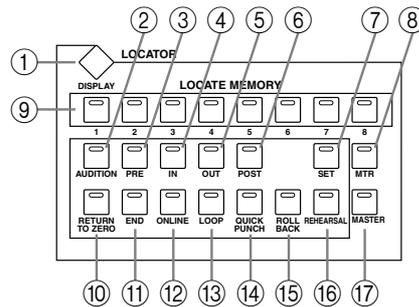
① USER DEFINED KEYS DISPLAY

(User Defined Key Assign)
 230 " (User Defined Key) "

② USER DEFINED KEYS 1-16

150 16
 230 " (User Defined Key) " . DAW(
) (Remote Layer)가
 217 " (Remote Layer) "

(Locator)



① LOCATOR DISPLAY

(Locate Memory) (Machine Configuration)
 224 " (Locate Memory),
 (Pre-roll), - (Post-roll) - (Roll-back) " 220 " "

② AUDITION

(Target Machine)(DAW, MMC P2)
 indicator가 222 "
 (Locator) "

- ③ **PRE**
 - (Pre-Roll) (Target Machine)(DAW, MMC P2) indicator가
 - (Pre-Roll) 222 " In (Locator) " (seconds)
- ④ **IN**
 In (Target Machine)(DAW, MMC P2) indicator가
 222 " (Locator) "
- ⑤ **OUT**
 Out (Target Machine)(DAW, MMC P2) indicator가
 222 " (Locator) "
- ⑥ **POST**
 - (Post-Roll) (Target Machine)(DAW, MMC P2) indicator가
 - (Post-Roll) 222 " Out (Locator) " (seconds)
- ⑦ **SET**
 8 (Locate) , In , Out , Return to Zero indicator가 222 "
 (Locator) "
- ⑧ **MTR**
 (Locator), (Transport), (Scrub), (Shuttle) control MTR indicator가
 ([MASTER] indicator (MMC P2). MTR 222 "
 (Locator) "
- ⑨ **LOCATE MEMORY**
 (Locate Memory) (Target Machine)(DAW, MMC P2) indicator가
 222 " (Locator) "
- ⑩ **RETURN TO ZERO**
 0 (DAW, MMC P2) indicator가
 (Locate command) 222 " (Locator) "
- ⑪ **END**
 DAW (session) indicator가
 (Locate command) 217 " (Remote Layer) "
- ⑫ **ONLINE**
 (DAW, MMC P2) (Chase) indicator가 222 "
 (Locator) "
- ⑬ **LOOP**
 (DAW, MMC P2) (Loop Playback) indicator가
 (Loop Playback) 222 " (Locator) "
- ⑭ **QUICK PUNCH**
 (DAW, MMC P2) (Quick Punch) indicator가 222 "
 (Quick Punch) (Locator) "

⑮ ROLL BACK

(MMC P2) Roll back(: Rewind)
indicator가
222 " (Locator) "

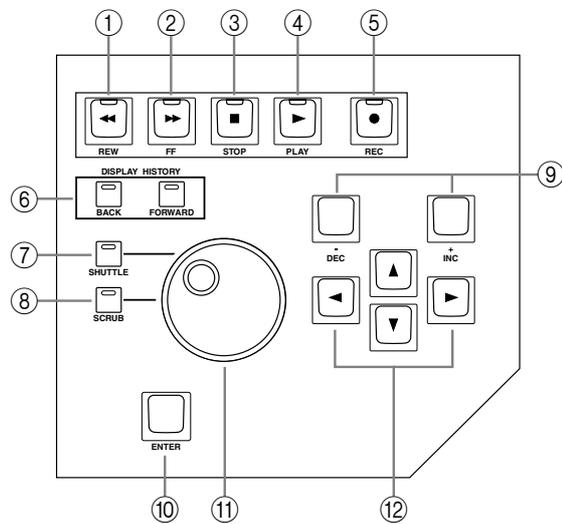
⑯ REHEARSAL

(MMC P2) (Reheasal)
indicator가 222 "
(Locator) "

⑰ MASTER

(Locator), (Transport), (Scrub), (Shuttle) control
(Master) indicator가
([MTR] indicator). 222 " (Locator) "

(Data Entry & Transport)



① REW

(Target Machine) (DAW, MMC P2)
indicator가 221 "
(Transport) "

② FF

(DAW, MMC P2)
indicator가 221 " (Transport) "

③ STOP

(DAW, MMC P2) indicator가
221 " (Transport) "

④ PLAY

(DAW, MMC P2)
indicator가 221 " (Transport) "

⑤ REC

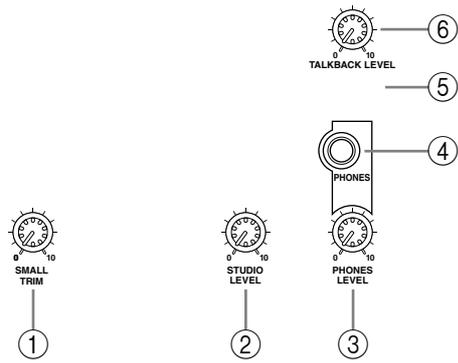
[PLAY] (DAW, MMC P2)
indicator가 221 "
(Transport) "

⑥ DISPLAY HISTORY BACK/FORWARD

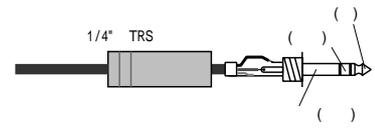
(back) (forward)
37 "
(Display History)"

- ⑦ **SHUTTLE**
 control(DAW, MMC P2) (Parameter wheel) (Shuttle)
 222 " (Shuttle) (Shuttle) indicator가
- ⑧ **SCRUB**
 control(DAW, MMC P2) (Parameter wheel) (Scrub)
 222 " (Shuttle) (Scrub) " indicator가
- ⑨ **-DEC & +INC**
 (parameter) . [+INC]
 1 가 , [-DEC]
 EQ ON/OFF / , [-DEC] , [+INC]
 (Scene)
- ⑩ **ENTER**
 , EQ ON/OFF /
 , Scene, (Effect)
 (Pan display) (Pan control) ,
 가 , [ENTER]
 (,)
- ⑪ **Parameter Wheel()**
 (Parameter wheel) , Scene
 , Scene, (Effect)
 (detented action)
 가 가 ,
 가
 (Parameter wheel)
 222 " (Shuttle) (Scrub) "
- ⑫ **Cursor()**
 ,
 가

(Monitor, Phones & Talkback Section)

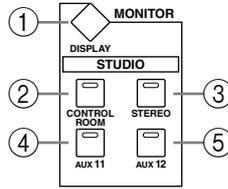
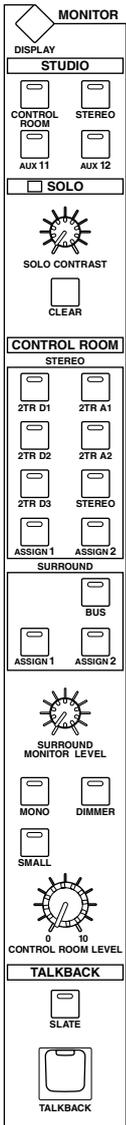


- ① **SMALL TRIM** control
SMALL CONTROL ROOM MONITOR OUT control
132 " (Control Room Monitoring)"
- ② **STUDIO LEVEL**control
STUDIO MONITOR OUT controller . 133
" (Studio Monitoring)"
- ③ **PHONES LEVEL** control
PHONES control . 132 "
(Control Room Monitoring)"
- ④ **PHONES**
TRS (Control room)
- ⑤ **Talkback mic**
(Talkback) . 138 "
(Talkback) (Slate) "
- ⑥ **TALKBACK LEVEL** control
control . 138
" (Talkback) (Slate) "

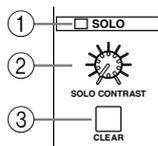


(Monitor Section)

MONITOR
(Studio)

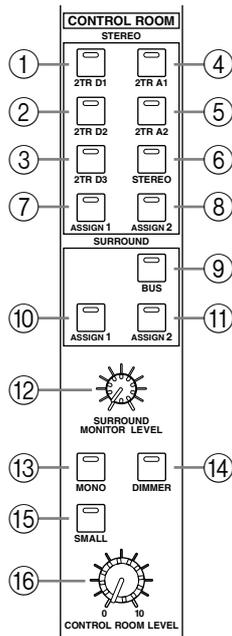


- ① **MONITOR DISPLAY**
 (Solo Setting), (Control Room Setup), (Talkback Setup)
 (Solo Configuring)", 132 " (Control Room Monitoring)" 119 " 138
 " (Talkback) (Slate) " (Surround Pan mode)
 (Surround Monitor Setup), (Surround Monitor),
 (Surround Monitor Library) (Surround Monitor Patch),
 134 " (Surround Monitoring)"
 - ② **CONTROL ROOM**
 (Control Room Monitor signal) (Studio Monitor signal source)
 Monitor signal source indicator가 (Studio Monitoring)" 133
 - ③ **STEREO**
 (Stereo Out) indicator가 133 " (Studio Monitoring)"
 - ④ **AUX 11**
 (Aux Send) 11 indicator가 133 " (Studio Monitoring)"
 - ⑤ **AUX 12**
 (Aux Send) 12 indicator가 133 " (Studio Monitoring)"
- Solo



- ① **SOLO indicator**
 Solo indicator가, Solo (Channel Soloing)" 118
- ② **SOLO CONTRAST control**
 Solo CONTROL ROOM control 118 " (Channel Soloing)"
- ③ **CLEAR**
 Solo Solo 118 " (Channel Soloing)"

(Control Room)



- ① **STEREO 2TR D1**
2TR IN DIGITAL AES/EBU 1
132 " (Control Room Monitor signal indicator가 (Control Room Monitoring))"
- ② **STEREO 2TR D2**
2TR IN DIGITAL AES/EBU 2
indicator가 132 " (Control Room Monitoring)"
- ③ **STEREO 2TR D3**
2TR IN DIGITAL COAXIAL 3
indicator가 132 " (Control Room Monitoring)"
- ④ **STEREO 2TR A1**
2TR IN ANALOG 1
indicator가 132 " (Control Room Monitoring)"
- ⑤ **STEREO 2TR A2**
2TR IN ANALOG 2
indicator가 132 " (Control Room Monitoring)"
- ⑥ **STEREO**
(Stereo Out)
indicator가 132 " (Control Room Monitoring)"
- ⑦ **STEREO ASSIGN 1**
(Output Channel)
indicator가 133 " (Control Room Setup)"
- ⑧ **STEREO ASSIGN 2**
(Output Channel)
indicator가 133 " (Control Room Setup)"
- ⑨ **SURROUND BUS**
(Bus Out) (Surround Monitor signal source)
indicator가 134 " (Surround Monitoring)"
- ⑩ **SURROUND ASSIGN 1**
(Slot Input)
indicator가 134 " (Surround Monitoring)"
- ⑪ **SURROUND ASSIGN 2**
(Slot Input)
indicator가 134 " (Surround Monitoring)"
- ⑫ **SURROUND MONITOR LEVEL control**
control 134 " (Surround Monitoring)"

⑬ MONO

indicator가 132 " (Control Room Monitoring)"

⑭ DIMMER

indicator가 dim 132 " dim (Control Room Monitoring)"

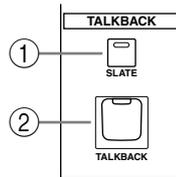
⑮ SMALL

(routing) SMALL LARGE CONTROL ROOM MONITOR OUTs (indicator), 가 (indicator), 가 SMALL CONTROL ROOM MONITOR OUT 132 " (Control Room Monitoring)"

⑯ CONTROL ROOM LEVEL control

" control 132 (Control Room Monitoring)"

(Talkback)



① SLATE

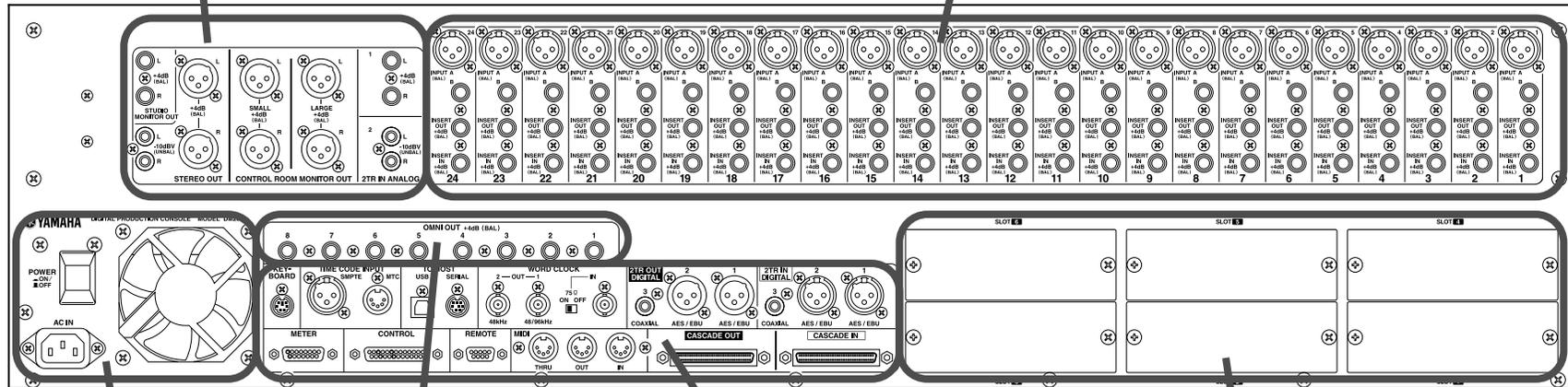
(Bus Out), (Matrix Send), (StereO Out) (Talkback mic signal) (Slate) 138 " (Talkback) (Slate) "

② TALKBACK

(Talkback Setup) (Studio Monitor Out) (Slot or Omni Output) (Talkback) 138 " (Talkback) (Slate) "

I/O (Analog)
Master I/O Section) (p. 30)

AD
Section) (p. 30)
(AD Input



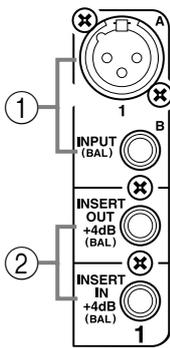
(Power
Section) (p. 34)

(Omni Out
Section) (p. 31)

I/O
& Control Section) (p. 32)
(Digital I/O

(Slot
Section) (p. 34)

AD (AD Input Section)

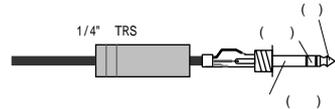


① **INPUT A & B (BAL)** (A B ())
 AD 1~24 XLR 3-31 1/4 가
 -60 dB ~ +10 dB (Phantom) (+48 V) XLR
 connector , ON/OFF(/) 가 .
 XLR
 가 XLR connector . Input channel
 (Insert In) 가 PAD()
 가 , " (hot)"
 . 48 "AD (AD Input) "

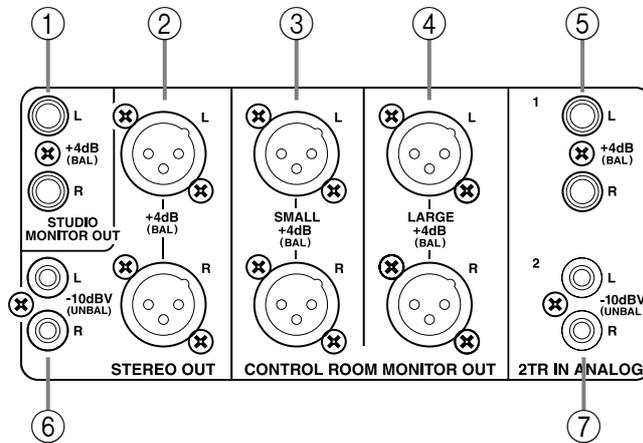


② **INSERT IN & OUT +4dB () connector**

1/4 TRS
 AD 1~24 Insert .
 - , - (cold), - (hot) .
 +4 dB . INSERT ON/OFF(
 /) Insert
 . 48 "AD (AD Input)"

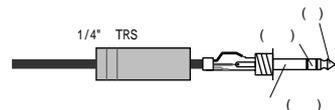


I/O (Analog Master I/O Section)



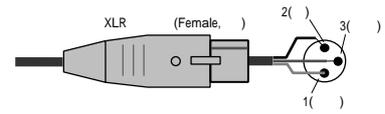
① **STUDIO MONITOR OUT +4 dB ()**

1/4 TRS (normal
 output level) +4 dB ,
 (Analog Studio Monitor
 signal) MONITOR()
 STUDIO () , (Aux Send) 11 , (Aux
 Send) 12 , (Stereo Out), (Control Room)
 STUDIO LEVEL() controller . 133
 " (Studio Monitoring)"



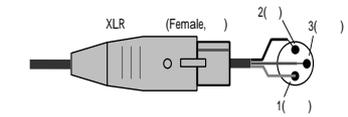
② **STEREO OUT +4 dB ()**

XLR 3-32 connector
 +4 dB, Analog Stereo Out
 Stereo Input
 1- (+), 2- (-), 3- (0)
 82 (Stereo Out Connector)"



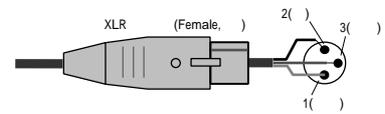
③ **SMALL CONTROL ROOM MONITOR OUT +4 dB ()**

XLR 3-32 +4 dB
 Analog Small Control Room Monitor
 (nearfield)
 132 (Control Room Monitoring)"



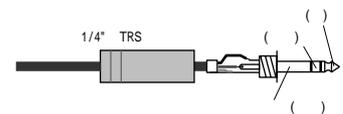
④ **LARGE CONTROL ROOM MONITOR OUT +4 dB ()**

XLR 3-32 +4 dB
 Analog Large Control Room Monitor
 132 (Control Room Monitoring)"



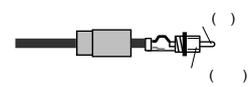
⑤ **2TR IN ANALOG 1 +4 dB ()**

1/4" TRS +4 dB
 Analog Stereo Out
 CONTROL ROOM
 CONTROL ROOM MONITOR OUT
 Input channel
 Insert In .49 "2TR (2TR Analog In)"



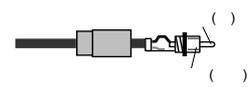
⑥ **STEREO OUT -10 dBV ()**

Stereo Out -10 dBV, Analog
 (Stereo Input) 2
 82 (Stereo Out Patch)"

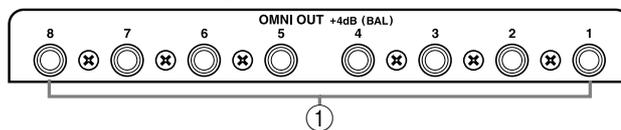


⑦ **2TR IN ANALOG 2 -10 dBV ()**

-10 dBV, 2 (norminal input level)
 Analog Stereo Output
 CONTROL ROOM
 CONTROL ROOM MONITOR OUT
 Input channel Insert In
 .49 "2TR (2TR Analog In)"

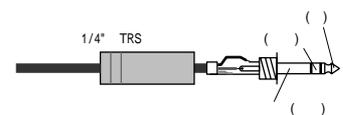


(Omni Out Section)

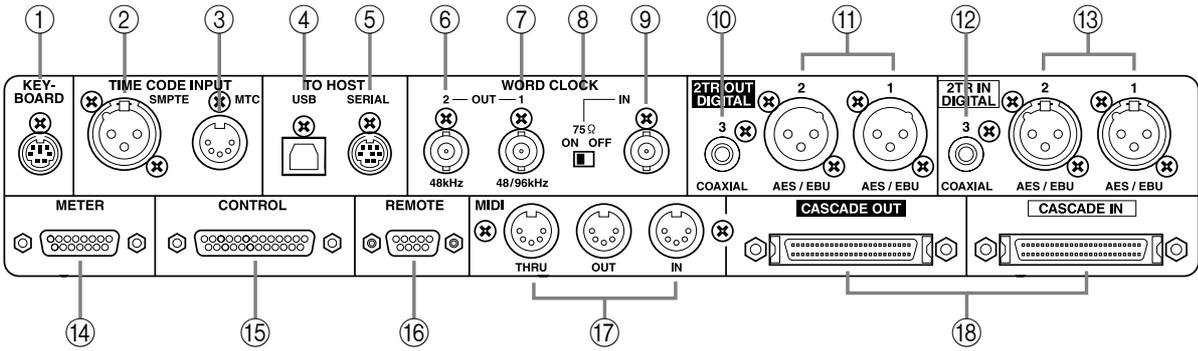


① **OMNI OUT +4dB ()**

1/4" TRS +4 dB
 8 (Bus Out), (Aux Send),
 Send, (Stereo Out), (Matrix
 (Direct Out), (Insert Out),
 (Surround Monitor Channel)
 (Omni Out)" 49 "



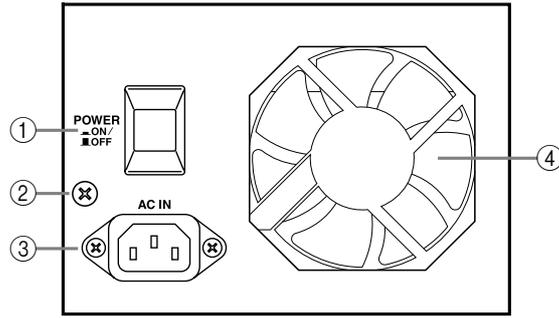
I/O (Digital I/O & Control Section)



- ① **KEYBOARD**
Scene 38 PS/2
- ② **SMPTE TIME CODE INPUT** connector
XLR 3-31 connector (Automix) SMPTE
Source) (Frame Rate) 171 " (Timecode)
- ③ **MTC TIME CODE INPUT** connector
5 DIN (Automix) MTC
Rate) " 171 " (Timecode Source) (Frame)
- ④ **USB TO HOST**
USB DM2000 USB 가 MIDI
182 "MIDI I/O"
- ⑤ **SERIAL TO HOST**
8- DIN DM2000 가 MIDI
182 "MIDI I/O"
- ⑥ **WORD CLOCK OUT 2** connector
BNC 88.2 kHz 96 kHz DM2000
(Wordclock) 50 " (Wordclock)"
- ⑦ **WORD CLOCK OUT 1** connector
BNC DM2000 (Wordclock)
50 " (Wordclock)"
- ⑧ **WORD CLOCK 75 ON/OFF**
WORD CLOCK IN() 75 52
" (Wordclock) "
- ⑨ **WORD CLOCK IN** connector
BNC (Wordclock)
51 " (Wordclock Source) "
- ⑩ **2TR OUT DIGITAL COAXIAL 3**
(phono connector) (IEC-60958) (digital audio)
2 digital stereo input (Stereo)
Out), (Bus Out), (Aux Send), (Matrix Send),
(Direct Out), (Insert Out), (Control Room) 가
(sampling rate converter) (sampling rate)
DM2000
(Dither)
52 "2TR (2TR Digital Outs)"

- ⑪ **2TR OUT DIGITAL AES/EBU 1 2**
 XLR 3-32 AES/EBU (digital audio) , 2
 digital stereo input 가
 (Stereo Out), (Bus Out), (Aux Send),
 (Matrix Send), (Direct Out), (Insert Out), (Control Room)
 (sampling rate converter) DM2000
 (Dither)
 52 "2TR (2TR Digital Outs)"
- ⑫ **2TR IN DIGITAL COAXIAL(2TR) 3**
 (phono connector) (IEC-60958) (digital audio)
 , 2 digital stereo input
 CONTROL ROOM [2TR D3] CONTROL ROOM MONITOR OUT
 insert in
 (sampling rate converter)
 53 "2TR (Digital In)"
- ⑬ **2TR IN DIGITAL AES/EBU 1 2**
 XLR-3-31- AES/EBU , 2
 digital stereo input CONTROL ROOM
 [2TR D1] [2TR D2] CONTROL ROOM MONITOR OUT
 Input channel Insert In
 (sampling rate converter)
 53 "2TR (Digital In)"
- ⑭ **METER**
 15 D connector MB2000 (Peak Meter Bridge)
- ⑮ **CONTROL**
 25 D GPI(General Purpose Interface:)
 DM2000 USER DEFINE KEYS , GPI
 가 "RECORDING" , 02R
 (Digital Recording Console) Solo 가 ,
 (Talkback) 228 "GPI(General Purpose
 Interface:)")"
- ⑯ **REMOTE**
 9 D connector Yamaha AD824 AD (converter)
 recall control . Sony P2
 DM2000 control . P2
 straight , AD824 (reversed)
 229 "AD824 A/D (Converter) " 220 "
 (MMC P2) "
- ⑰ **MIDI IN, OUT & THRU**
 MIDI IN, OUT, THRU DM2000 MIDI
 . MIDI Scene recall ,
 (Parameter control)
 (Bulk Dump), MIDI clock, MTC, MMC . 182
 "MIDI I/O"
- ⑱ **CASCADE IN & OUT**
 64 connector 4 DM2000
 . DM2000 02R (Digital Recording Console)
 58 "Console Cascading"

(Power Section)



① POWER ON/OFF

DM2000 . 35 "DM 2000
/ "

② Grounding screw()

DM2000
3 , AC 가
. AC 가 , ,

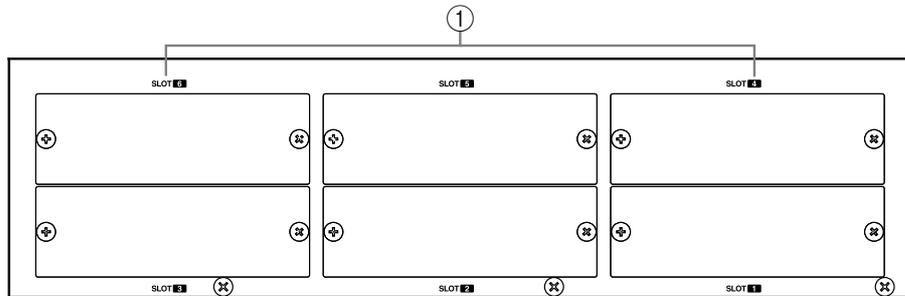
③ AC IN connector

DM2000 AC Connector .
35 " "

④ Cooling fan()

, DM2000
가

(Slot Section)



① SLOT 1~6

6 Slot I/O YGDAI
. 54 "Slot I/O" . Slot Input Input channel
Insert In " (Input Patch)"
(Bus Out), (Aux Send), (Matrix Send),
(Stereo Out), (Insert Out), (Direct Out),
(Surround Monitor Channel) Slot Output
63 " (Output Patch)"

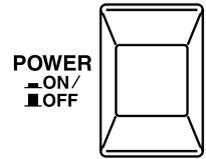
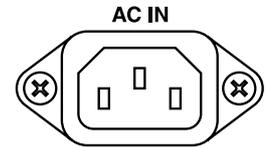
3

DM2000

DM 2000 / (sound sources), DM2000, (multitrack & master recorder), (mornitoring power amplifier).

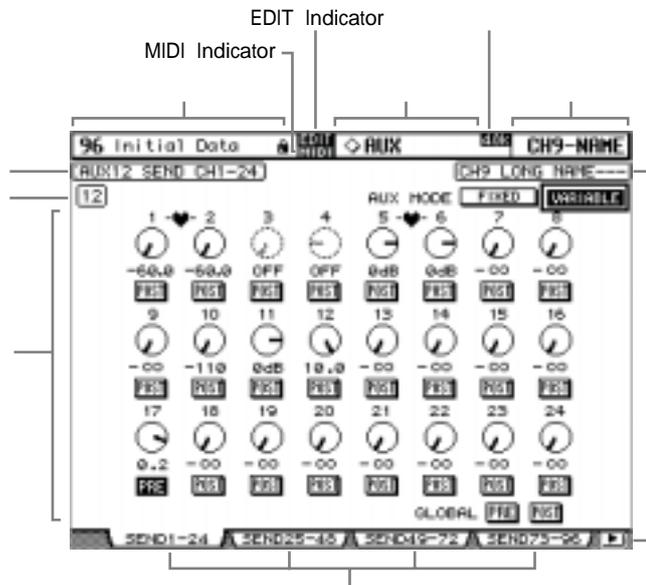
1 DM2000 , [POWER] 가 가

2 DM2000 , [POWER]



Display

DM2000 (parameter)



Current Scene: Scene Memory 159 "SCENE MEMORY" Scene Storing & Recalling" 160
 Scene 가 "Scene Memory"

MIDI indicator: DM2000 MIDI IN , USB TO HOST SERIAL TO HOST
 MIDI indicator

EDIT indicator: indicator . SCENE MEMORY indicator
 (Edit indicator dot) 157 " (Edit Buffer) (Edit Indicator)"

Selected Display : (AUX), (EQ), (Automix) [DISPLAY]

Sampling rate : 44.1 kHz (44k), 48 kHz (48k), 88.2 kHz (88k), 96 kHz (96k)

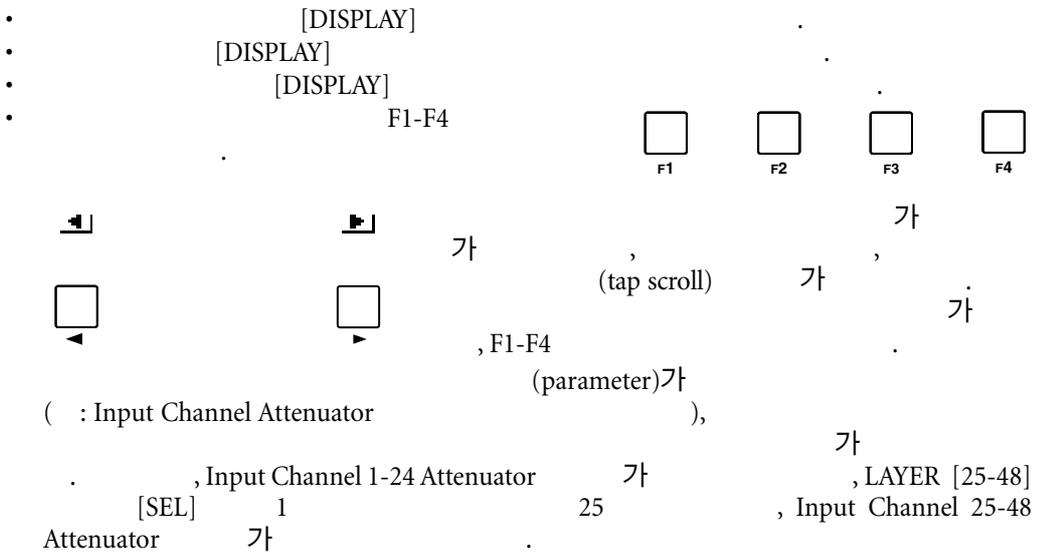
Selected channel : [SEL] Input or Output Channel ID (: CH1-CH96, BUS1-BUS8, AUX1-AUX9, AX10-AX12, MT1L-MT4R, ST-L, ST-R.)

Channel Name: (Aux Send), Input Channel (Aux Send), (Input Channel Aux Send), Input Channel 1~24 Aux Send (Aux Send), (Matrix Send), Input Channel 1-24 Aux Send (Effect), GEQ

(Tab): (Tap scroll) "Display" (parameter)가

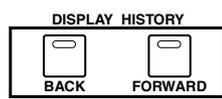
Display

Display [DISPLAY] MATRIX SELECT, AUX SELECT, ENCODER MODE, EFFECTS/PLUG-INS, ROUTING, PHASE/INSERT, DELAY, AUX/MATRIX SEND, DYNAMICS, PAN/SURROUND, EQUALIZER, TRACK ARMING, SCENE MEMORY, AUTOMIX, USER DEFINED KEYS, LOCATOR, MONITOR.



[DISPLAY] 가 ,
 control 가
 , " (Auto EQUZLIZER Display)"
 , SELECTED CHANNEL EQUALIZER control (Equalizer)
 가 234

(Display History)



Display History

DISPLAY HISTORY [BACK]
 HISTORY[FORWARD]
 가

[BACK] [FORWARD]
 (scroll)

[BACK] [FORWARD]
 가

(Display Page Control)

, Rotary control (fader)
 (GEQ Insert parameter box) GEQ
 (Parameter wheel) INC/DEC(가/)
 [ENTER]



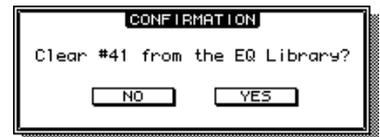
(Parameter Window)

SELECTED CHANNEL Rotary control
 (parameter)가
 control
 (Auto Display preference)
 가



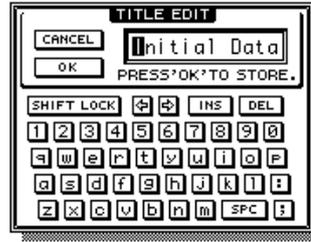
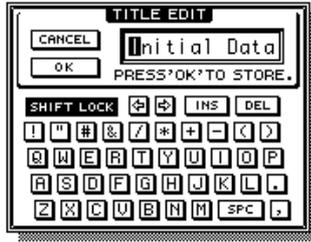
(Confirmation Messages)

, DM2000
 . YES NO



Title Edit Window

Scene (Library memory), (Automix) 가 , 가 4 , 12 , 16 가



가 , [ENTER] (parameter wheel) 가 SHIFT LOCK SPC INS OK , CANCEL DEL

KEYBOARD PS/2 (Title Edit Window) (quick title entry) (Title Edit KEYBOARD) .101 104 U.S. DM2000 (Title Edit Window) DM2000 가

ESC	CANCEL	
RETURN/ENTER	OK	
CAPS LOCK	SHIFT LOCK	
SHIFT		
Backspace		
(/)	/	
INSERT	INS	
DELETE	DEL	
SPACE	SPACE	

Channel Strip Display



Encoder, Routing setting, (Fluorescent channel strip display) EQ, Insert, Delay, Comp

CH01

.236



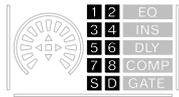
Channel Strip display 가 가

(Fader Touch Sense)



indication

indicator(Routing Indicator)



indicator Input Channel 가
 . 1-8 (Bus Out), "S" (Stereo
 Out), "D" (Direct Out)

(EQ), (Insert), (Delay), (Comp), (Gate) indicator



indicator EQ, Insert, Delay, Comp Gate /

(Encoder Display)



meter)

(para

(Pan Mode)



(▲)



(■)



/

(Aux/Matrix Mode)



(▶ (—∞))



(■)



(Attenuator Parameter)



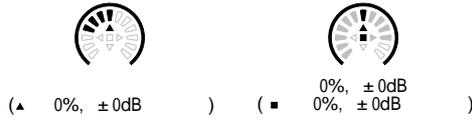
(▶ (—96dB))



(■)



(Delay Feedback Gain), (Delay Mix)
(EQ Gain)



/ (On/Off) / (Pre/Post)
(EQ) / , (Aux Send) / , (Matrix Send)
/ , (Aux Send) / , (Matrix Send) /



AD824 (Input Gain), (Insert In Gain)
(Scene Fade Time)

AD824 Input Gain, AD824 Insert In Gain, Scene Fade Time



(Delay Time), (EQ) Q, (EQ) , (Comp)
(Threshold), (Comp Ratio), (Comp Attack),
(Comp Release), (Comp Out Gain), (Comp Knee),
(Gate Threshold), (Gate Range), (Gate Attack),
(Gate Hold), (Gate Decay), (Compander Width)



No Assign

Encoder No Assign, Input Patch, Insert In Patch, Insert Out Patch, Direct Out parameter
, Encoder Display .

(Channel Name)

Channel strip display (Input & Output Channel) ID 가
 130 " ID "



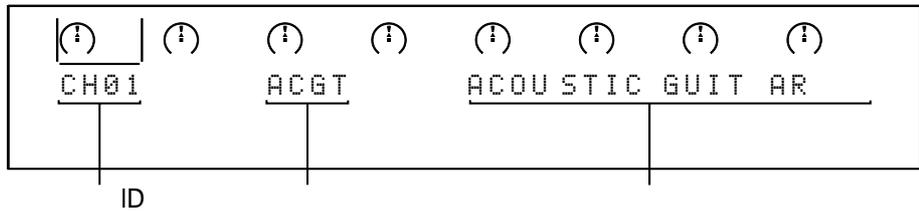
preference ID
 236 "Channel ID/Channel(ID/)"

CH01

1

[SEL]

1 , (Short name), (Long name), ID가



[SEL()]

2

[SEL]

Channel strip display가

**(Input Patch),
 (Insert Out Patch),**

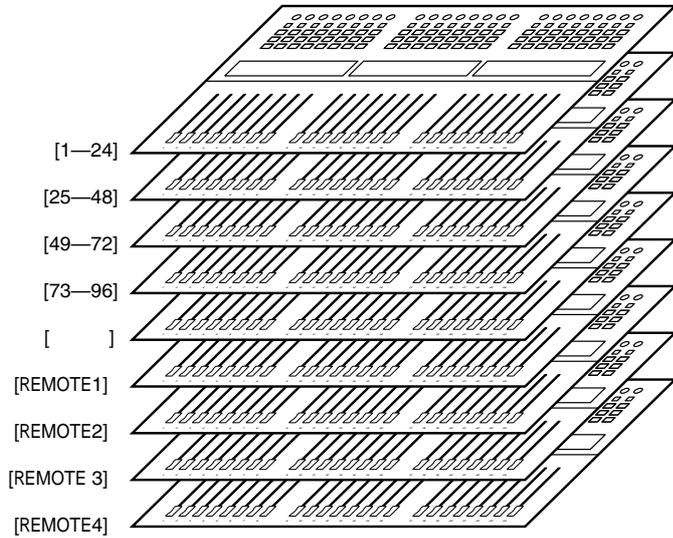
(Input Patch),
 Patch), ID
 , "

**(Insert In Patch),
 (Direct Out)**

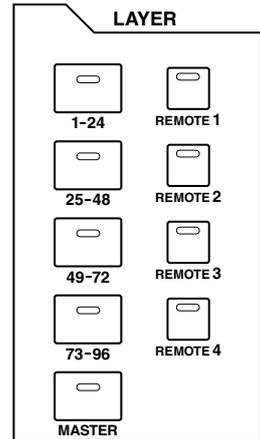
(Insert In Patch), (Insert Out
 (Direct Out parameter)가 Encoder
 67 " (Encoder)

(Layer)

(Input Channel Layer) 4 , (Master Layer)(
(Output Layer)) 1 , (Remote Layer) 4 .



(Channel strip control)
, LAYER
LAYER indicator가 , ID
(Channel Strip Encoder),
[AUTO] , [SEL] , [SOLO] , [ON] , Channel strip
display Fader
1 1-24 Input Channel 1 control ,
25-48 Input Channel 25 control ,
(Bus Out) 1 control .



& Output Channel

(Layer)	(Channel Strip)			
	1-8	9-16	17-20	21-24
1-24	(Input Channel) 1-24			
25-48	(Input Channel) 25-48			
49-72	(Input Channel) 49-72			
73-96	(Input Channel) 73-96			
MASTER ()	(Bus Out) 1-8	(Aux Send)	1-12	(Matrix Send) 1-4
REMOTE () 1-4	(Remote Layer) " 217 "			

Channel strip fader Encoder Fader
Encoder " 44 " (Fader
Mode) " 45 " (Encoder Mode) "

SELECTED CHANNEL control , LAYER
 , [SEL]

1 42 (Layer) .

2 [SEL] .
 가 가 [SEL] indicator가 , Channel strip display ID 
 (39).
 (36).

[SEL]
 , , 25-48 , [SEL] 1 1-24 Input Channel 1
 (Bus Out) 1 Input Channel 25 ,

(Layer)	[SEL()]			
	1-8	9-16	17-20	21-24
1-24	Input Channel 1-24			
25-48	Input Channel 25-48			
49-72	Input Channel 49-72			
73-96	Input Channel 73-96			
MASTER ()	(Bus Out) 1-8	(Aux Send) 1-12		(Matrix Send) 1-4 ¹
REMOTE () 1-4	Layer) " 217 "		(Remote	

1. [SEL] , Matrix Send .

indicator가
 , [SEL]
 [SEL] indicator .

SELECTED CHANNEL PAN/SURROUND [L] [R]
 (Matrix Send)
 (Stereo Out)

parameter가 , [SEL] 가
 가 가
 가 Delay
 가 [SEL] Input Channel Delay

Stereo Out [SEL]

Stereo Out [SEL] SELECTED CHANNEL control Stereo Out
 (Stereo Out) indicator가
 (Stereo Out)

. SELECTED CHANNEL PAN/SURROUND [L] [R]

Stereo Out (parameter)가 , Stereo Out [SEL] 가
 가 가 , Input
 Channel Delay , (Stereo Out) [SEL]
 Stereo Out Delay Delay 가

(Auto Channel Select)

(Auto Channel Select)
Encoder

[AUTO], [SOLO],

(Touch Sense Select)

(235),
[ON]

(237),

(Fader Knob)

(Fader Mode)

1 42

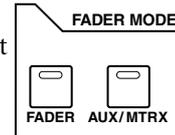
2 FADER MODE

[FADER]:

Channel

(Output Channel Master)

(Input



[AUX/MTRX]:

(Matrix Send)

control

(Aux)

FADER MODE

indicator

(Layer)	(Fader Mode)	(Fader)			
		1-8	9-16	17-20	21-24
1-24	(Fader)	CH 1-24:			
	(Aux/Mtrx)	CH 1-24:		(Aux Send)	
25-48	(Fader)	CH 25-48:			
	(Aux/Mtrx)	CH 25-48:		(Aux Send)	
49-72	(Fader)	CH 49-72:			
	(Aux/Mtrx)	CH 49-72:		(Aux Send)	
73-96	(Fader)	CH 73-96:			
	(Aux/Mtrx)	CH 73-96:		(Aux Send)	
MASTER ()	(Fader)	(Bus Out) 1-8:	(Aux Send) 1-12:		(Matrix Send) 1-4:
	(Aux/Mtrx)	(Bus Out) 1-8: (Matrix Send)	(Aux Send) 1-12:		()
REMOTE (1-4)	(Fader)	(Remote Layer) " 217 "			
	(Aux/Mtrx)				

(Encoder Mode)

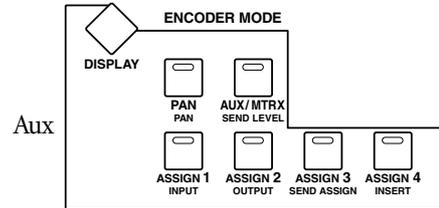
Encoder (Pan) / (Aux/Matrix) 2가 4가 가 가 40 

- 1 42
- 2 ENCODER MODE

[PAN]: Encoder가 (Pan control)

[AUX/MTRX]: Encoder가 Matrix Send

[ASSIGN 1-4]. Encoder가 ASSIGN



"ENCODER MODE Assign ENCODER MODE indicator가 Layer Encode

(Layer)	(Encoder Mode)	Encoder			
		1-8	9-16	17-20	21-24
1-24	(Pan)	CH 1-24:			
	(Aux/Mtrx)	CH 1-24: (Aux Send)			
	(Assign)1-4	CH 1-24:			
25-48	(Pan)	CH 25-48:			
	(Aux/Mtrx)	CH 25-48: (Aux Send)			
	(Assign)1-4	CH 25-48:			
49-72	(Pan)	CH 49-72:			
	(Aux/Mtrx)	CH 49-72: (Aux Send)			
	(Assign)1-4	CH 49-72:			
73-96	(Pan)	CH 73-96:			
	(Aux/Mtrx)	CH 73-96: (Aux Send)			
	(Assign)1-4	CH 73-96:			
MASTER ()	(Pan)				(Matrix) 1-4:
	(Aux/Mtrx)	(Bus Out) 1-8: (Matrix Send)		(Aux Send) 1-12: (Matrix Send)	
	(Assign)1-4	(Bus Out) 1-8: (Assign Parameter)		(Aux Send) 1-12:	(Matrix Send) 1-4: (Assign Parameter)
REMOTE (1-4)	(Pan)				
	(Aux/Mtrx)	" 217 " (Remote Layer)			
	(Assign)1-4				

Control 38

Channel strip display "Channel Strip Display"

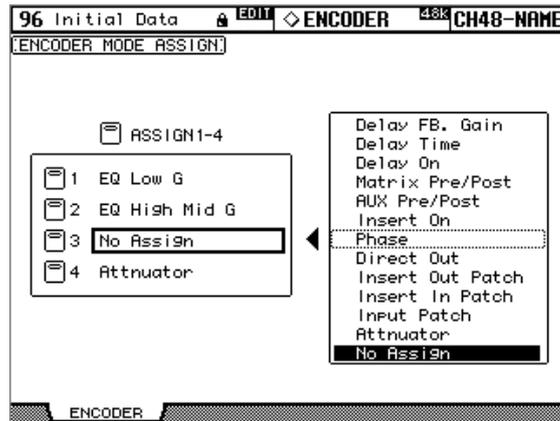
ENCODER MODE Assign

4 ENCODER MODE ASSIGN 4 (parameter)

ASSIGN

- [ASSIGN1]: (Input Patch)
- [ASSIGN 2]: (Direct Out)
- [ASSIGN 3]: LFE (Surr. LFE Level)
- [ASSIGN 4]: (Surr. Pan Wheel)

1 ENCODER MODE [DISPLAY] (Encoder Mode Assign)



ASSIGN

ASSIGN 가

2 ASSIGN Up/Down ASSIGN

3 (Parameter Wheel) INC/DEC

가 47 " 가
(Encoder Mode Parameter) "

4 [ENTER]

가 , Encoder
" (Phase)"
가 (Matrix Send) (Phase) (Bus Out), (Aux Send),
ASSIGN Setup Memory 231 "
(SmartMedia) DM2000 "

가 (Encoder Mode Parameter)

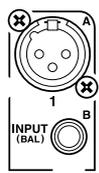
	(Parameter)	(Encoder)	(Push Switch)
1	No Assign		
2	Attenuator		
3	Input Patch		
4	Insert In Patch		
5	Insert Out Patch		
6	Direct Out		
7	Phase	:	/
8	Insert On	/	
9	Aux pre/post	/	
10	Delay On	/	
11	Delay Time		
12	Delay FB. Gain		
13	Delay Mix		
14	EQ On	/	
15	EQ Type		
16	EQ Low Q	Q	
17	EQ Low F		
18	EQ Low G		
19	EQ Low-Mid Q	- Q	
20	EQ Low-Mid F	-	
21	EQ Low-Mid G	-	
22	EQ High-Mid Q	- Q	
23	EQ High-Mid F	-	
24	EQ High-Mid G	-	
25	EQ High Q	Q	
26	EQ High F		
27	EQ High G		
28	Gate On	/	
29	Gate Threshold		
30	Gate Range		
31	Gate Attack		
32	Gate Decay		
33	Gate Hold		
34	Comp On	/	
35	Comp Threshold		
36	Comp Ratio		
37	Comp Attack		
38	Comp Release		
39	Comp Out Gain		
40	Comp Knee/Width	/	
41	Surr. LFE Level	LFE	
42	Surr. Pan Wheel		
43	Scene Fade Time		
44	AD824 Gain	AD824	
45	Ins AD824 Gain	AD824	

4 I/O AD (AD Input)

AD (AD Input)

DM2000 - 24 AD
 AD Input Channels (Input Channel Insert Ins)
 (61). (Output Channel Insert Ins)
 (64).

AD (Input Connector)



AD XLR 3-31 (connector) 1/4
 -60 dB ~ +10 dB
 XLR ,

(Phantom)



AD (direct box) XLR 3-31
 +48V (phantom) .
 , AD

(Pad)



AD 26dB (head amp)가
 가 " (hot)" " (hot)"
 (Snare drum)

(Gain)



AD (Pad)가 가 -16 dB ~ -60 dB +10
 dB ~ -34 dB (Detented rotary) Gain control . GAIN
 control , (Gain control)
 , PEAK indicator
 가 가 PEAK indicator가
 , GAIN control (clipping)
 . GAIN() ,

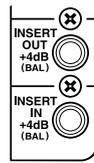
(PEAK)

(SIGNAL) indicator



GAIN control PAD
 indicator . (Input signal level) 20 dB
 SIGNAL indicator가 . 3 dB
 PEAK indicator가 .

AD (AD Insert)



AD Insert (Analog Insert) , 1/4 TRS +4 dB



AD (AD Input Insert) INSERT ON/OFF

(Stereo Out)

Stereo Out output 82

(Control Room Monitor Out)

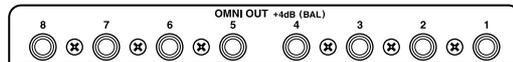
Control Room Monitor output 132

(Studio Monitor Out)

Studio Monitor output 133

(Omni Out)

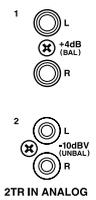
DM2000 1/4 TRS 가 Omni Out . Omni Out Bus Out, Aux Send, Matrix Send, Stereo Out, Input or Output Channel Insert Out, Surround Monitor Channel (64). Input Channel Direct Out Omni Out (65).



2TR

(2TR Analog In)

DM2000 2 , 2TR IN
 ANALOG 1 +4 dB (BAL) 1/4 TRS , 2TR IN
 ANALOG 2 -10 dBV (UNBAL)
 CONTROL ROOM() [2TR A1] [2TR A2]
 (Control Room monitor) . Input Channel(61
), (Input Channel Insert In)(62),
 (Output Channel Insert In)(64)



5 I/O 가 (Cascading)

(Wordclock)

(Analog Audio)

(Digital Audio)

(Wordclock)

가

(Wordclock)

, MIDI

SMPTE/EBU

MTC

(Wordclock synchronization)

(Wordclock master)

(Wordclock slave)

가

가

(Wordclock)

BNC

AES/EBU, ADAT, Tascam

DM2000

(Wordclock)

DM2000

DM2000 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz

(Slot Input), 2TR

(2TR Digital Input), CASCADE IN

BNC

WORD CLOCK IN

가

(Wordclock)

(Wordclock master)

(slave)

가

(Wordclock)

DM2000 BNC

1 BNC

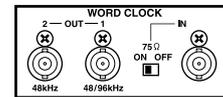
2

가

WORD CLOCK IN

, 75 Ω ON/OFF

(52



). WORD CLOCK OUT 1 DM2000

. WORD CLOCK OUT 2 88.2 kHz 96 kHz

DM2000

DM2000

96 kHz

48 kHz

(Wordclock Source)

: , DM2000 가 , MY8-AT I/O 가

1 DISPLAY ACCESS [DIO] Word Clock Select()

96 Initial Data										
DIO CH48-NAME										
WORD CLOCK SELECT										
SLOT TYPE	IN	OUT	1/2	3/4	5/6	7/8	9/10	11/12	13/14	15/16
SLOT1	4	4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SLOT2	8	8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SLOT3	4	4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SLOT4	8	4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SLOT5	8	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SLOT6	-	-	<input checked="" type="checkbox"/>							

FS	WC IN	CAS.IN	2TRD1	<input checked="" type="checkbox"/> 2TRD2	<input checked="" type="checkbox"/> 2TRD3
96 kHz	<input type="checkbox"/> INT 44.1k	<input type="checkbox"/> INT 48k	<input type="checkbox"/> INT 88.2k	<input type="checkbox"/> INT 96k	

2 , [ENTER]

SLOT TYPE I/O .IN OUT I/O
 FS 44.1kHz,
 48kHz, 88.2kHz, 96kHz, Unlock (Wordclock)

가
SLOT1~6 (1/2-15/16): Slot Input
 (pair) , (pair) I/O

WC IN: WORDCLOCK IN

CAS.IN: CASCADE IN

2TRD1, 2TRD2, 2TRD3: 2TR (2TR Digital Input)

INT44.1k, INT48k, INT88.2k, INT96k: (Wordclock)

- (Wordclock) 가
- (Wordclock) 가
- (Wordclock) , DM2000
- (Wordclock)
- (Wordclock) , 가 가
- I/O (Wordclock)
- I/O 가 ,
- 가 , DM2000 가
- (Wordclock generator)

(Wordclock)

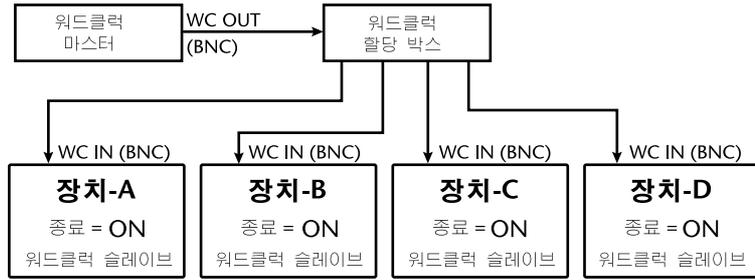
BNC

DM2000WORD CLOCK

75 ON/OFF DM2000
2가

(Star Distribution)

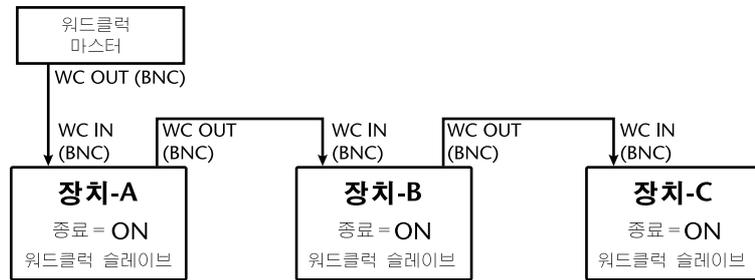
(Wordclock distribution box)



(Daisy Chain Distribution)

(Wordclock) " (daisy-chain)"

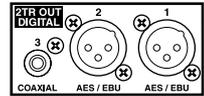
가



2TR

(2TR Digital Outs)

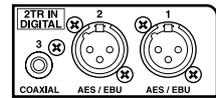
DM2000 2 , 2TR OUT
DIGITAL AES/EBU 1 AES/EBU 2 XLR 3-32
AES/EBU . 2TR OUT DIGITAL
COAXIAL 3 (IEC-60958)



Bus Out, Aux Send, Matrix Send, Stereo Out, Input
or Output Channel Insert Out, Control Room signal (65
) Direct Out (65).
(Sampling rate converter) DM2000
(53).
(Digital output signal) (dithering)
(57).

2TR (Digital In)

DM2000 2 , 2TR IN
 DIGITAL AES/EBU 1 AES/EBU 2 XLR 3-31
 AES/EBU . 2TR IN DIGITAL

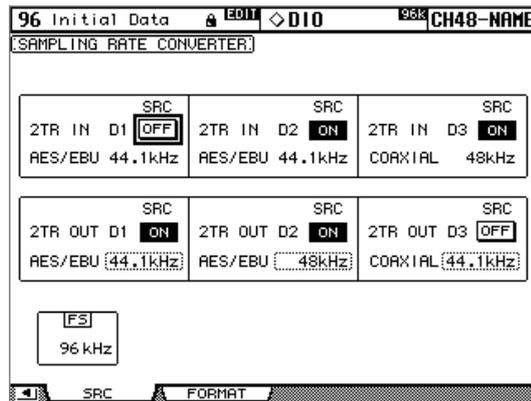


COAXIAL() 3
 (IEC-60958) . CONTROL ROOM()
 [2TR D1], [2TR D2] [2TR D3]
 . Input Channel(61) , Input Channel Insert In(62) Output
 Channel Insert In(64) . DM2000
 (Sampling rate
 converter) (53) .
 (Channel Status Monitor)
 (57) .

2TR / (2TR In/Out Sampling Rate Converter)

DM2000 2TR (Sampling rate converter)
 가 , 가 44.1/48 kHz .

1 DISPLAY ACCESS [DIO] Sampling Rate Converter()



2 (parameter) , (Parameter wheel), INC/DEC , [ENTER]

FS 44.1kHz, 48kHz, 88.2kHz, 96kHz, Unlock()

2TR IN D1-3: 2TR (Sampling rate converter)

(Sampling rate)가 DM2000
 (Sampling rate)가

2TR OUT D1-3: 2TR (Sampling rate
 converter)

(Sampling rate)가 44.1 kHz 48 kHz
 (Specified rate)

Slot I/O

DM2000 I/O AES/EBU, ADAT, Tascam I/O
 YGDAI(Yamaha General Digital Audio Interface) I/O 6

Slot Input Input Channel Input Channel Insert In(61) Output
 Channel Insert In(64) Slot Output Bus Outs Aux
 Sends, Matrix Sends, Stereo Out, Insert Outs, Surround Monitor Channels(63)
 Direct Outs(65)
 Slot Output (dithering)
 (57)

가

-YGDAI I/O 가 I/O
 <<http://www.yamaha.co.jp/product/proaudio/homeenglish/>> Yamaha

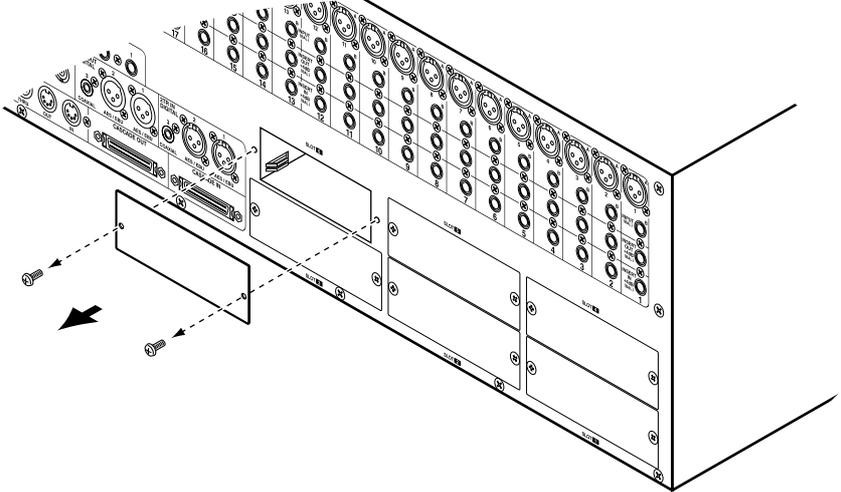
		In	Out	/	
MY8-AD		8		20-bit, 44.1/48 kHz	() x8
MY8-AD24 ¹		8		24-bit, 44.1/48 kHz	
MY4-AD		4			XLR 3-31 ()
MY8-AD96		8		24-bit, 44.1/48/88.2/96 kHz	25 D- (sub)
MY4-DA			4	24-bit, 44.1/48 kHz	XLR 3-32 ()
MY8-DA96			8	24-bit, 44.1/48/88.2/96 kHz	25 D- (sub)
MY8-AE ²	AES/EBU I/O	8	8	24-bit, 44.1/48 kHz	
MY8-AE96				24-bit, 44.1/48/88.2/96 kHz	
MY8-AE96S ³					
MY8-AT ²	ADAT I/O				x2
MY8-TD ²	(Tascam)			24-bit, 44.1/48 kHz	25 D (sub) BNC
MY8-mLAN	IEEE1394				6 1394 x2

- 20-bit MY8-AD
- 24-bit/96 kHz
- (Sampling rate converter) MY8-AE96

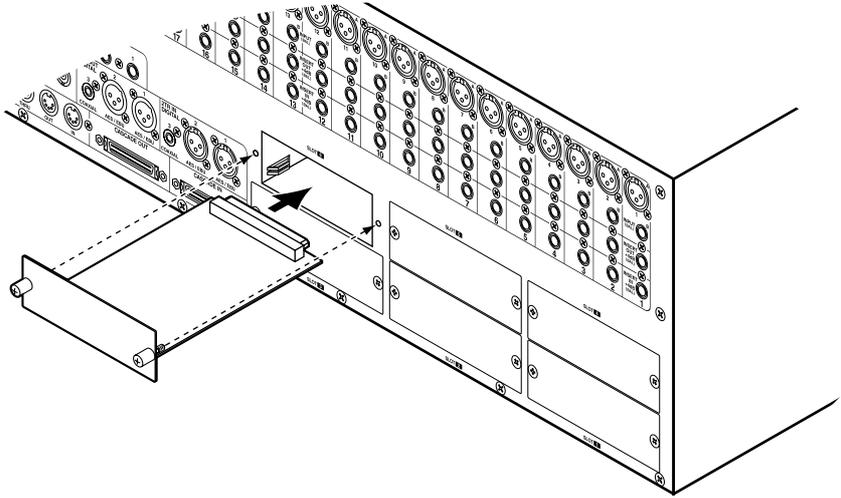
I/O
 , DM2000 , Yamaha
 <<http://www.yamaha.co.jp/product/proaudio/homeenglish/>>
 Yamaha

I/O

- 1 DM2000
- 2 (slot cover)



- 3 가 (connector) 가



- 4 가 (thumbscrew) DM2000

(Word Clock Select) I/O (51).

(Higher Sampling Rate)

1 DISPLAY ACCESS [DIO] Higher Sample Rate Data Transfer Format()

96 Initial Data		EDIT		DIO		96k CH48-NAME	
HIGHER SAMPLE RATE DATA TRANSFER FORMAT							
SLOT TYPE	IN	OUT	SRC				
			1/2	3/4	5/6	7/8	
SLOT1 C/D1	DOUBLE CHANNEL	DOUBLE CHANNEL	-	-	-	-	-
SLOT2 AES/EBU	DOUBLE SPEED	DOUBLE CHANNEL	OFF 96kHz	ON 44.1kHz	ON 48kHz	ON 88.2kHz	-
SLOT3 TDIF	DOUBLE CHANNEL	DOUBLE CHANNEL	-	-	-	-	-
SLOT4 D/A	-	-	-	-	-	-	-
SLOT5 A/D	-	-	-	-	-	-	-
SLOT6 NO CARD	-	-	-	-	-	-	-

2 (parameter) (Parameter wheel), INC/DEC , [ENTER]

SLOT TYPE I/O

IN/OUT: (Higher sampling rate)(: 88.2 kHz 96 kHz)
 I/O Double Channel Double Speed
 (Double Speed) , 가
 (Higher sampling rate)(: 88.2 kHz 96 kHz)
 . Double Channel , 가
 , 2 . 8 I/O
 4 . Double Channel ,
 . Double Channel 96 kHz 44.1/48 kHz
 (Digital multitrack recorder)

IN OUT Higher sampling rate(: 88.2 kHz 96 kHz)
 가 44.1 kHz 48 kHz ,
 I/O 가 Slot I/O
 가 Slot 가 . MY8-AE, MY8-AT, MY8-TD 88.2/96 kHz
 I/O , IN OUT Double Channel

SRC: (Sampling rate converter)
 (Sampling rate) 가 DM2000 , 가
 (Sampling rate converter)
 MY8-AE96S I/O

(Dithering Digital Output)

, 2TR

(Digital Output)

(Slot Output) 16-bit, 20-bit 24-bit

1 DISPLAY ACCESS [DIO] Dither()

96 Initial Data		E011		DIO		CH48-NAME	
DITHER							
2TR OUT D1		2TR OUT D2		2TR OUT D3			
RES/EBU		RES/EBU		COAXIAL			
24bit		24bit		24bit			
	1/2	3/4	5/6	7/8	9/10	11/12	13/14 15/16
SLOT1	16bit	16bit	24bit	16bit	16bit	OFF	16bit 16bit
SLOT2	20bit	OFF	16bit	20bit	20bit	16bit	20bit 20bit
SLOT3	24bit	16bit	20bit	16bit	OFF	OFF	OFF OFF
SLOT4	OFF	20bit	OFF	OFF	OFF	OFF	16bit OFF
SLOT5	16bit	OFF	OFF	OFF	16bit	OFF	20bit OFF
SLOT6	OFF	OFF	OFF	16bit	20bit	OFF	OFF OFF
PHO CARD	OFF	OFF	OFF	16bit	20bit	OFF	OFF OFF
WORD CLOCK DITHER CASCADE CAS. OUT							

2 (Dither parameter)

(Parameter wheel) INC/DEC

SLOT I/O

[ENTER]

(Dither)

(Monitoring Digital Input Channel Status)

Status)

2TR Digital Input Slot Input

1 DISPLAY ACCESS [UTILITY] Channel Status Monitor()

96 Initial Data		E011		UTILITY		CH48-NAME	
CHANNEL STATUS MONITOR							
SLOT4	SLOT5	SLOT6	2TR IN				
SLOT1	SLOT2	SLOT3	2TR IN				
	2TR IN D1	2TR IN D2	2TR IN D3	---			
FS	44.1k	<UNLOCK>	---	---			
EMPHASIS	OFF	---	---	---			
CATEGORY	RES/EBU	---	---	---			
COPY	---	---	---	---			
OSCILLATOR CH STATUS BATTERY							

2 SLOT 1-6 2TR IN , [ENTER]

(FS), (emphasis), (category), (copy protection) 가

Console Cascading

4 DM2000 가 (cascading) , Input Channel 384
 . (Solo), (Scene Recall), (Store) 가
 (cascading)
 Yamaha 02R 가 (cascading)

CASCADE IN CASCADE OUT cascading
 control 가 (Cascade cable)



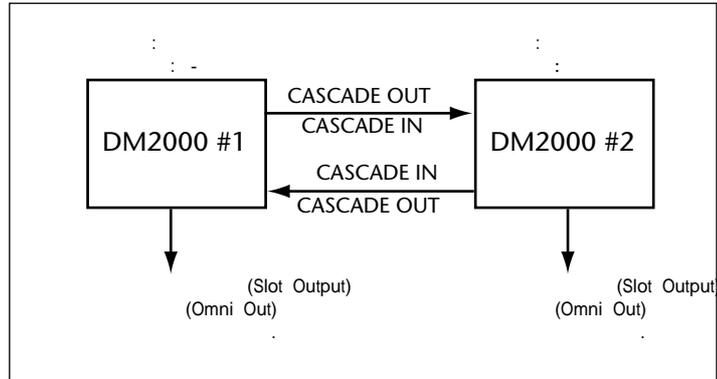
DM2000 가 (cascade port)

- (Aux Select)
- (Matrix Select)
- (Display page selection)
- (Solo)
- (Fader Mode)
- (Encoder Mode)
- (Metering position setting)
- / (Peak Hold On/Off)
- / (Meter Fast Fall On/Off)
- (Scene Store), (Recall), (Title Edit)
 가 (cascading)
- (Automix) : (Make New Automix), (Store),
 (Recall), (Undo), (Title Edit), (Transport)(AutoREC),
 (REC), (Play), (Stop), (Abort)
- (Automix) : 가/ (Automix Enable/Disable),
 (Internal Start Time), (Offset Time), (Frame Rate),
 (Overwrite)(FADER), (ON), (PAN), (SUUR), (AUX),
 (AUX ON), (EQ), / (Motor On/Off), (Edit
 Out Mode Off)/ (Return)/ (Takeover), (Return Time),
 / (Update to End On/Off), / (Absolute/Relative Fader
 Edit Mode), / (Touch Sense Edit In On/Off),
 / (Touch Sense Edit Out On/Off).
 가 COMM (Cascade COMM Link preference)
 (235). (Solo)

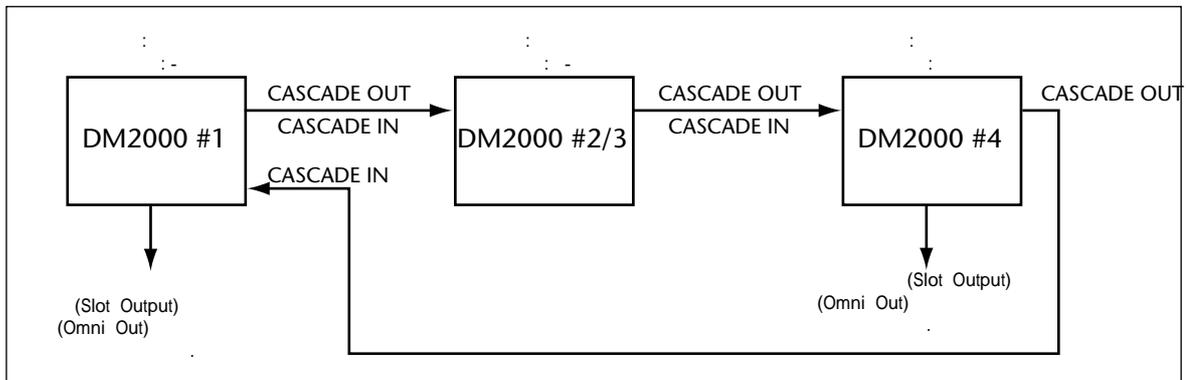
가	COMM	(Cascade COMM Link preference)
DM2000	MIDI	. DM2000 가 가 (cascading)
MIDI	가	COMM (Cascade COMM Link preference)

가 (Cascade Hookup)

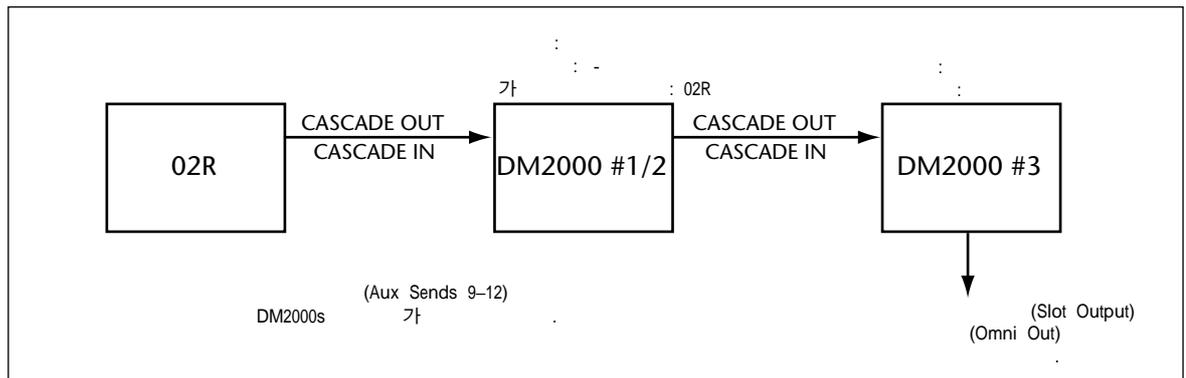
2 DM2000 가 (cascading)



3 DM2000 가 (cascading)



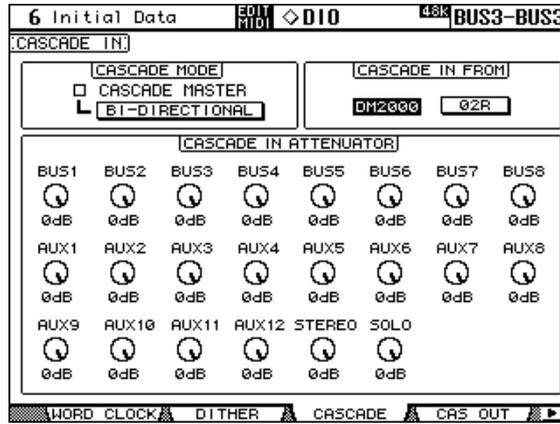
02R (02R Digital Recording Console) 가 (cascading)



가 (Attenuating Cascade Input)

Cascade In(가) 가 (Cascade Input)
,가 (Cascade Mode) 가 (Cascade source)

1 DISPLAY ACCESS [DIO] Cascade In(가)



2 (Parameter wheel), INC/DEC

[ENTER]
CASCADING MODE: 2 DM2000 , BI-DIRE
 CTIONAL 가 (Cascade connection)
 DM2000 CASCADING MASTER . BI-
 DIRECTIONAL ,가 (cascading) DM2000

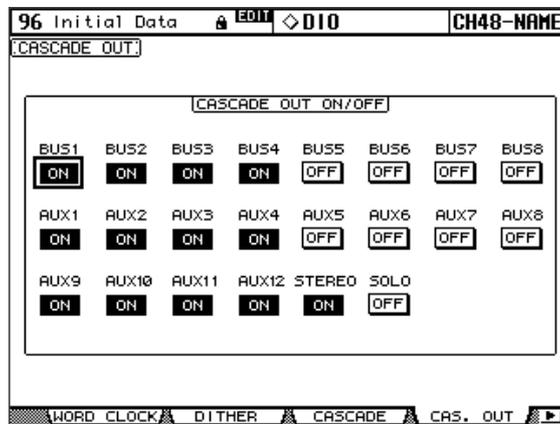
CASCADING IN FROM: DM2000 02R CASCADING IN
 . CASCADING IN DM2000 , DM2000

CASCADING IN ATTENUATOR: control
 [ENTER] (Attenuator parameter)

가 (Cascade Output)

가 (Cascade Output)

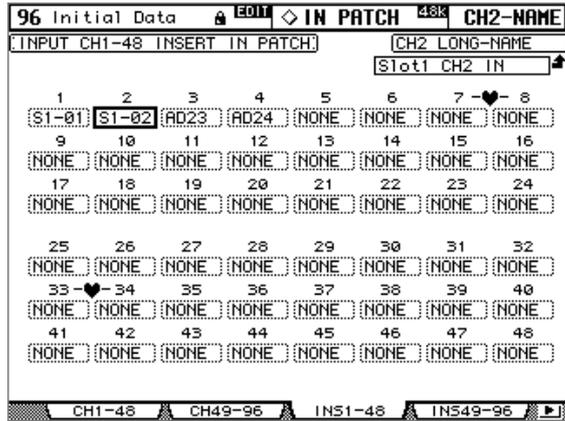
1 DISPLAY ACCESS [DIO] Cascade Out(가)



2 ON/OFF , [ENTER]

(Input Channel Insert In Patch)

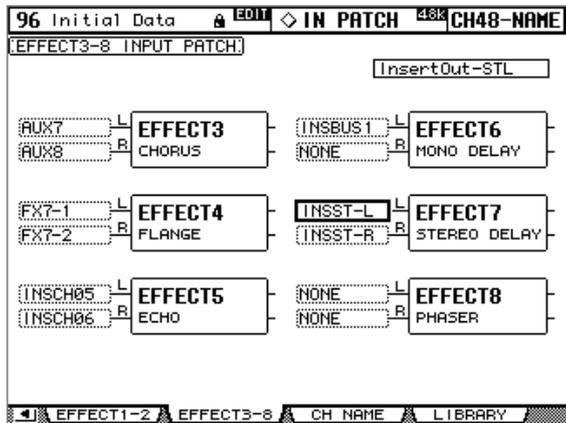
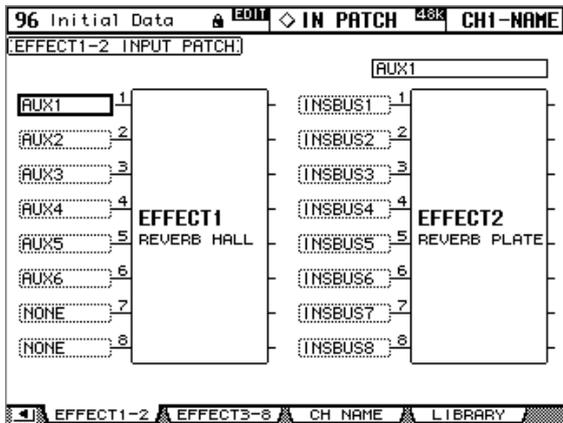
AD (Slot Input), (Internal Effect Processor Output),
 Output), 2TR (Digital or Analog 2TR Input)
 (Input Channel Insert In)
 96 (Input Channel Insert In)
 Input Channel 1-48 (Insert In Patch)
 Channel Pairing), CH1, CH25, CH2, CH26 (Input



, [SEL]

(Effect Input Patch)

(Aux Send), (Internal Effect Processor Output)
 (Output Channel Insert Out) (Internal
 Effect Processor Input)
 (Internal Effect Processor) (Input patch
 parameter) 1 2 ,
 (Effect processor) 3-8 (Effect
 processor)

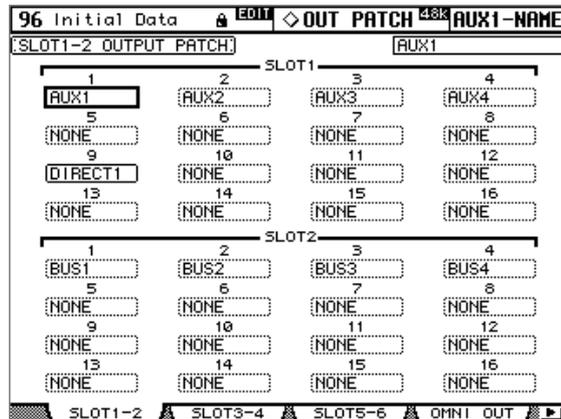


(Output Patch)

(Slot Output), (Omni), (Output Channel Insert In),
 (Direct Out), 2TR, GEQ, Output Patch()
 , DISPLAY ACCESS [OUTPUT PATCH]
 (Patch parameter)
 (Parameter wheel) INC/DEC [ENTER]
 (Short Port)
 Patch Select (67)
 Insert In, Insert Out, Direct Out (67)
 (Output Patch source) 247
 (Output Patch) 255
 1 32 (Output Patch)
 141 "
 (Input Patch) "

(Slot Output Patch)

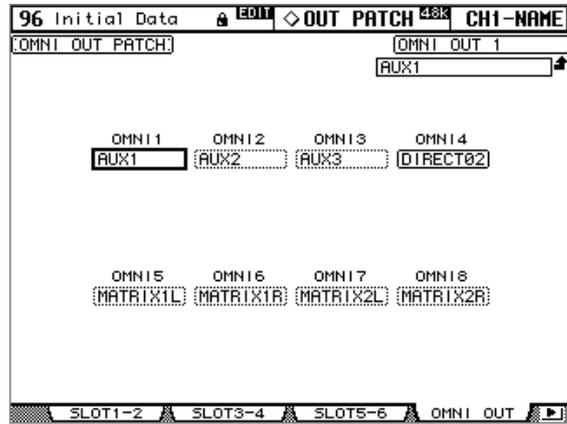
(Bus Out), (Aux Send), (Matrix Send),
 (Stereo Out), (Input or Output Insert Out),
 (Surround Monitor) (Slot Output) (Slot
 Output) Direct Out Destination (Direct Out)
 (65)
 6 (Slot Output)
 1-2 (Output Patch)



(Slot Output) (Direct Out) (65), Input
 Channel Routing (Direct Out) (Slot
 Output)

(Omni Out Patch)

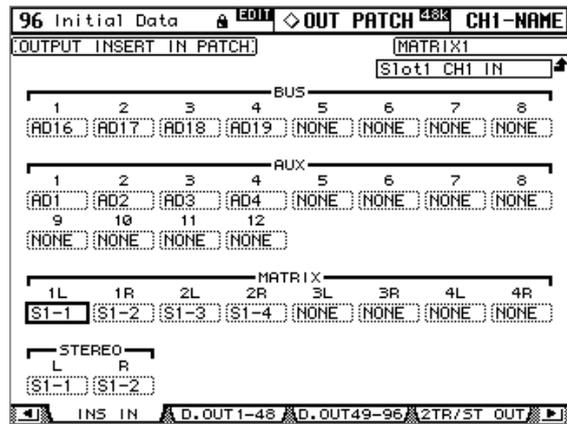
(Bus Out), (Aux Send), (Matrix Send),
 (Stereo Out), (Input & Output Channel Insert In)
 (Surround Monitor) (Omni Out)
 (Omni Out) Direct Out Destination (Direct Out)
 (65).



(Omni Out) (Direct Out) (65), Input
 Channel Routing (Direct Out), (Omni
 Out)

(Output Channel Insert In)

AD (AD Input), (Slot Input), (Internal Effect
 Processor Output) 2TR (Digital & Analog 2TR Input)
 (Output Channel Insert In) (Matrix
 Send) (Stereo Out)



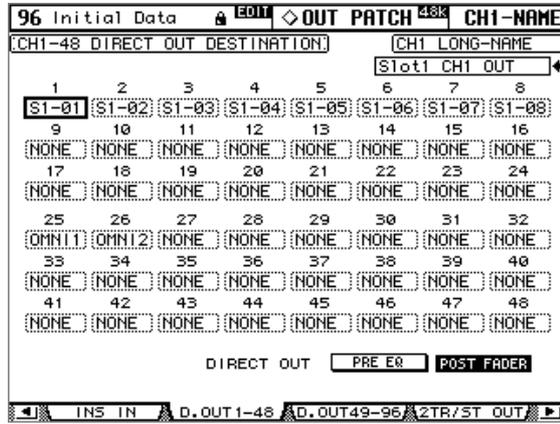
, [SEL] (Patch parameter)

(Direct Out Patch)

(Direct Out) (Slot Output), (Omni Out) 2TR

(2TR Digital Output)

96 Direct Out Destination parameter
Input Channel 1-48 Direct Out Destination

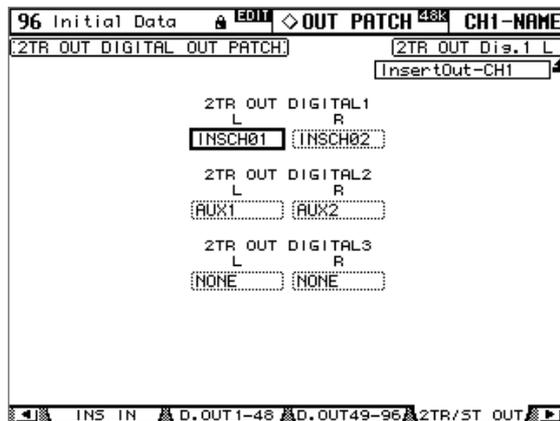


, [SEL]

2TR

(2TR Digital Output Patch)

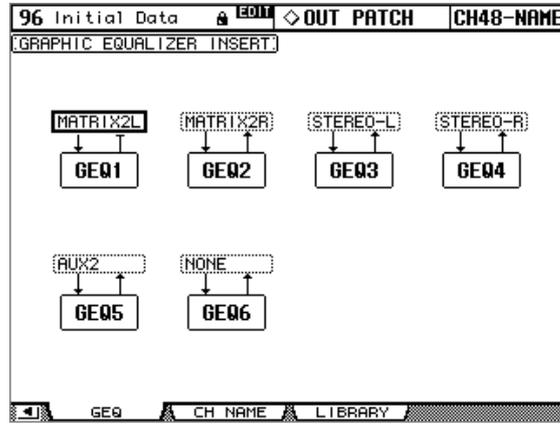
(Bus Out), (Aux Send), (Matrix Send),
(Stereo Out), (Input or Output Channel Insert Out)
(Control Room signal) 2TR (2TR Digital Output)
. 2TR (2TR Digital Output) Direct Out Destination
(Direct Out) (65).



2TR (2TR Digital Output) (Direct Out) (65
) , Input Channel Routing (Direct Out) , 2TR
(2TR Digital Output Patch)

GEQ (GEQ Patch)

6 31 Graphic Equalizer Insert()
 (Bus Out), (Aux Send), (Matrix Send)
 (Stereo Out) .
 GEQ Graphic Equalizer Edit() (155)
 Output Channel Insert() (111) 가 .



(Input & Output Port)

(Input & Output Port)
 (Encoder) Input & Output Patch Channel
 strip display .
 (Input Port) 258 , (Output Port) 260

1 DISPLAY ACCESS [SETUP] Name()

Input Port() Output Port

ID	SHORT	LONG
AD7 <AD7 > = <AD7 >	<AD IN 7 >	>
AD6 <AD6 > = <AD6 >	<AD IN 6 >	>
AD5 <AD5 > = <AD5 >	<AD IN 5 >	>
AD4 <AD4 > = <AD4 >	<AD IN 4 >	>
AD3 <AD3 > = <AD3 >	<AD IN 3 >	>
AD2 <AD2 > = <AD2 >	<AD IN 2 >	>
AD1 <AD1 > = <AD1 >	<AD IN 1 >	>

INITIALIZE

ID	SHORT	LONG
SLOT1-7 <S1-7 > = <S1-7 >	<Slot1 CH7 OUT >	>
SLOT1-6 <S1-6 > = <S1-6 >	<Slot1 CH6 OUT >	>
SLOT1-5 <S1-5 > = <S1-5 >	<Slot1 CH5 OUT >	>
SLOT1-4 <S1-4 > = <S1-4 >	<Slot1 CH4 OUT >	>
SLOT1-3 <S1-3 > = <S1-3 >	<Slot1 CH3 OUT >	>
SLOT1-2 <S1-2 > = <S1-2 >	<Slot1 CH2 OUT >	>
SLOT1-1 <S1-1 > = <S1-1 >	<Slot1 CH1 OUT >	>

INITIALIZE

2 (Parameter wheel) INC/DEC

3 [ENTER]

Title Edit() , OK .
 38 "Title Edit() "
 Name Input Auto Copy() , 4
 가 , 가 .
 INITIALIZE

(Patch Select Window)

(Input & Output Patch) Patch Select()
, (Patch parameter) [ENTER]



가

(Parameter wheel) INC/DEC
가 , YES [ENTER] .가

(Encoder)

(Encoder) (Input Channel Input),
(Insert Out), (Insert In), (Direct Out)

1 46

Encoder ASSIGN

(Input Channel Input) (Direct Out)
(Input Channel Layer) (Insert Out Patch)
(Insert In Patch) (Input Channel Layer)
(Master Layer)

2

ASSIGN

5 , Channel strip display가

가 , ASSIGN

143 ID/ , Channel strip display가

ID



AD1

3

(Encoder)

5 (, ID)

7 Input Channel

(Input Channel Patch)

AD (AD Input), (Slot Input), (Internal Effect Processor
 Output), 2TR (Digital & Analog 2TR Input), (Bus Out)
 (Aux Send) (Input Channel Input)
 61 " (Input Channel Patch)"

(Input Channel Metering)

Meter() Input Channel
 103 " (Metering)"

(Signal Phase)

SELECTED CHANNEL PHASE/INSERT [ϕ]

1 LAYER , [SEL]

2 Phase() [ϕ]
 Phase() [ϕ] 가

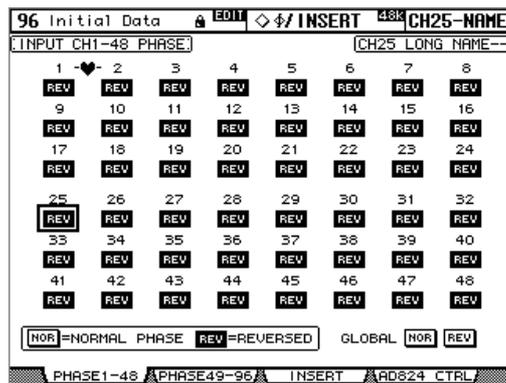


(Phase)

Phase() , Auto PHASE/INSERT
 Display , SELECTED CHANNEL PHASE/ INSERT Phase()
 [ϕ] 가 234
 "Auto PHASE/INSERT Display"

1 SELECTED CHANNEL PHASE/INSERT [DISPLAY] Phase()

96 Input Channel (Phase parameter)
 Input Channel 1-48 (Phase)



2 (Parameter wheel) NOR/REV
 [ENTER] INC/DEC
 Input Channel Layer() [SEL] NOR/REV
 GLOBAL NOR/REV: (Phase)

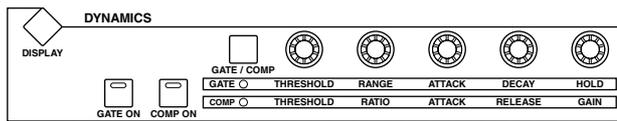
(Input Channel Gating)

Input Channel (Gate)가
 . 4 (Preset Memory) 88 (User Memory)
 " (Gate) " . 144
 " (Gate) " .
 . 296

1	Gate		
2	Ducking		
3	A. Dr. BD		
4	A. Dr. SN		(snare)

SELECTED CHANNEL DYNAMICS control

- 1 LAYER (Input Channel Layer) , [SEL]
- 2 [GATE ON]



- 3 [GATE/COMP] DYNAMICS control GATE (GATE), THRES HOLD, RANGE, ATTACK, DECAY HOLD control

(Gate Edit)

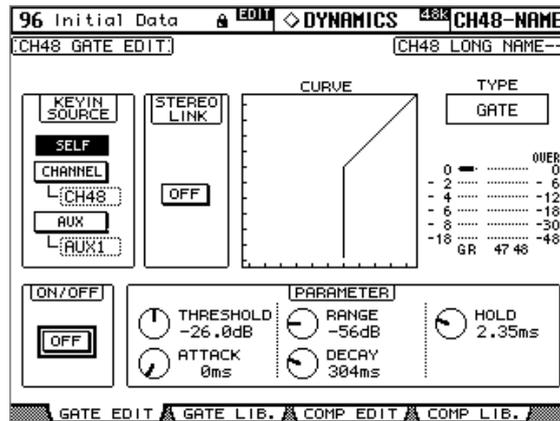
Gate Edit , . Auto DYNAMICS Display 가
 , SELECTED CHANNEL DYNAMICS 가

- 1 LAYER (Input Channel Layer) , [SEL]
- 2 SELECTED CHANNEL DYNAMICS[DISPLAY] Gate Library()

144 " (Gate) "

3 SELECTED CHANNEL DYNAMICS[DISPLAY]

Gate Edit()



4 (Parameter Wheel) INC/DEC, [ENTER]

KEYIN SOURCE: Input Channel (parameter) SELF (trigger source)
), CHANNEL() AUX(1-12) 가
 (Input Channel trigger source) 12
 1, 1-12
 13, 13-24

STEREO LINK: (Gate)
 (pairing) Pair()
 (pairing)
 . Input Channel (pairing) 120 "Channel Pairing"
 가

CURVE: (,)

TYPE:

Meters:
 . GR

ON/OFF: . SELECTED CHANNEL
 DYNAMICS [GATE ON]

PARAMETERS: (Threshold), (Range), (Attack), (Decay), (Hold)
 control

(Input Channel Attenuating)

(pre-EQ)가 가 106
 " (Signal Attenuating)"

(Input Channel Equalizing)

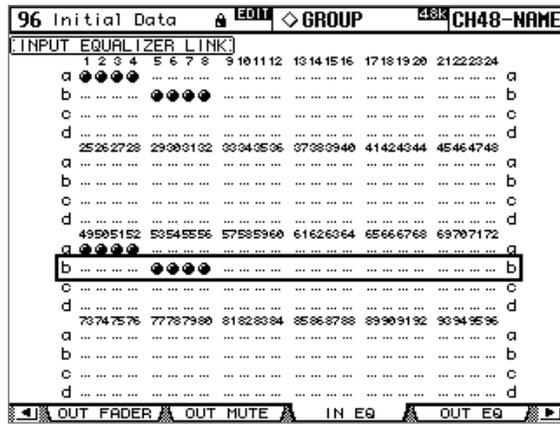
107 " 4 (parametric) 가
 (EQ) "

(Input Channel EQ)

(Input Channel EQ) 가가 , Input Channel . a, b, c, d 4 (Input

Channel EQ)

- 1 DISPLAY ACCESS [GROUP] Input Equalizer Link()



- 2 LAYER (Input Channel Layer)

- 3 Up/Down 가 a-d

- 4 [SEL] 가 가 가 가 가 가 가 가 , [SEL] 가 가

(Input Channel Insert)

(Insert) (Internal Effect Processor)
 Input Channel 111 "
 (Insert) "

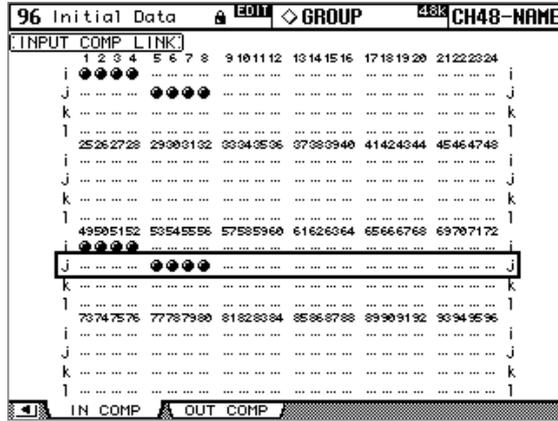
(Input Channel Compressing)

Input Channel (compressor)가 113 "
 (Channel Compressing)"

(Input Channel Compressor)

(Input Channel compressor) 가가 , control (compressor) . i, j, k, l 4 .

- 1 DISPLAY ACCESS [GROUP] Input Comp Link()



- 2 LAYER (Input Channel Layer)

- 3 Up/Down i-l 가

- 4 [SEL] Input Channel 가 (compressor) 가 Input Channel 가 Input Channel 가 , [SEL] indicator가 (Input Channel compressor) (compressor) Input Channel 가

(Input Channel Delaying)

Input Channel (Delay) 117 " (Channel Signal Delay)"

(Input Channel Mute)(ON/OFF)

Input Channel

- 1 LAYER
- 2 [ON] Input Channel



[ON] indicator가

(Input Channel Mute) (ON/OFF)

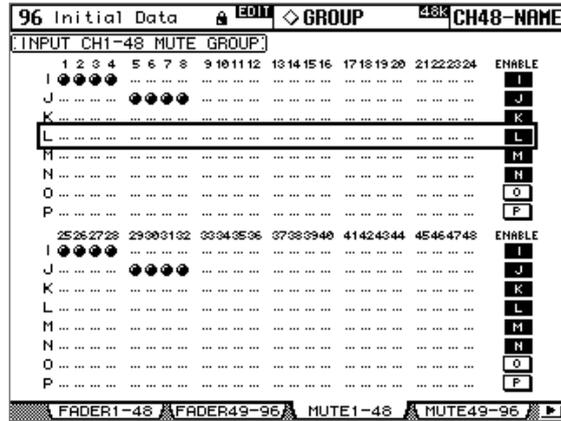
가

.I,J,

K, L, M, N, O, P 8 (Input Channel Mute)

1 DISPLAY ACCESS [GROUP] Input Channel Mute Group()

96 (Mute) (parameter)
1-48



2 LAYER (Input Channel Layer)

3 Up/Down 가

4 [SEL] 가

가 , [SEL] 가
ENABLE: 가

(Input Channel Level)

- 1 LAYER (Input Channel Layer)
- 2 FADER MODE [FADER]
- 3

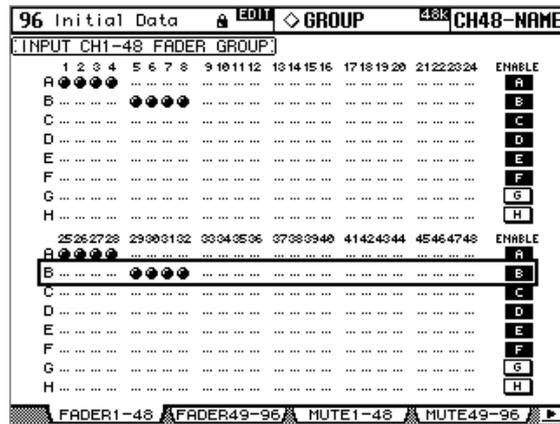
Fader View (Channel Fader) 125



(Input Channel Fader)

(Input Channel Fader) 가가 ,
 . A, B, C, D, E, F, G, H 8 (Input Channel Fader)

- 1 DISPLAY ACCESS [GROUP] Input Channel Fader Group()
 96 (parameter)
 1-48



- 2 LAYER (Input Channel Layer)
- 3 Up/Down (Fader) A-H

- 4 [SEL] 가 , [SEL] 가

ENABLE:

(Fader)

(Fader)

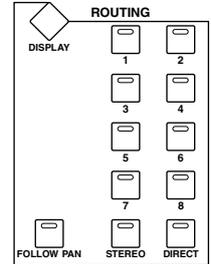
가). 44 " (, FADER MODE [FADER] (Fader Mode) "

(Input Channel Routing)

Input Channel Bus Out, Stereo Out Direct Out (routing)

SELECTED CHANNEL ROUTING control

- 1 **LAYER** (Input Channel Layer)
[SEL]
- 2 [1-8], [STEREO] [DIRECT]
(routing)
[1-8]: Input Channel (Bus Out)
[STEREO]: Input Channel (Stereo Out)
(routing)
[DIRECT]: Input Channel (Direct Out)
(routing)
[FOLLOW PAN]: Input Channel Control (Bus Out)
(routing)
(Bus Out)
(Bus Out)

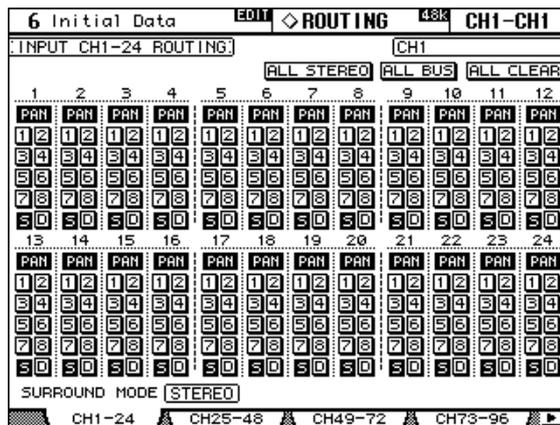


(Routing)

(Input Channel Routing) Routing ,
 Auto ROUTING Display , SELECTED CHANNEL ROUTING
 가 234 "Auto
 ROUTING Display"

- 1 **SELECTED CHANNEL ROUTING [DISPLAY]** Routing()

96 Input Channel (Routing parameter)
 Input Channel 1-24 (Routing)



- 2 (Parameter wheel) , INC/DEC
 [ENTER]
 Input Channel Layer [SEL]
ALL STEREO:
ALL BUS: (Bus Out)
ALL CLEAR: (Routing)

가
(Bus Out Routing) 1 8
(Surr. Pan)
77 " (Surr. Pan) "

(Surround Mode)	(Bus Out)							
	1	2	3	4	5	6	7	8
	1	2	3	4	5	6	7	8
3-1	L	R	C	S	S	6	7	8
5.1	L	R	Ls	Rs	C	E ¹	7	8

1. LFE(Low frequency Effects:)

(Input Channel Panning)

Input Channel (Stereo Out)

(Encoder)

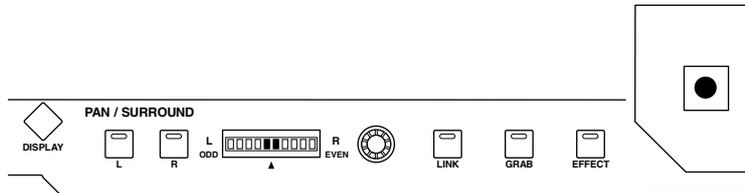
- 1 LAYER (Input Channel Layer)
- 2 ENCODER MODE [PAN] Pan Encoder()



3

SELECTED CHANNEL PAN/SURROUND control

- 1 LAYER (Input Channel Layer) , [SEL]



- 2 control Input Channel (Pan display) Input Channel 가 Pan 가 [L] [R]

[LINK] (Stereo)가 (Surr)
, Pan control

Input Channel 가 [GRAB] [LINK] 가
[EFFECT]

(Pan)

Pan Auto PAN/SURROUND Display
, SELECTED CHANNEL PAN/SUR ROUND 가
. [LINK] [GRAB] indicator가
가 234 "Auto PAN/SURROUND Display"

1 SELECTED CHANNEL PAN/SURROUND [DISPLAY]

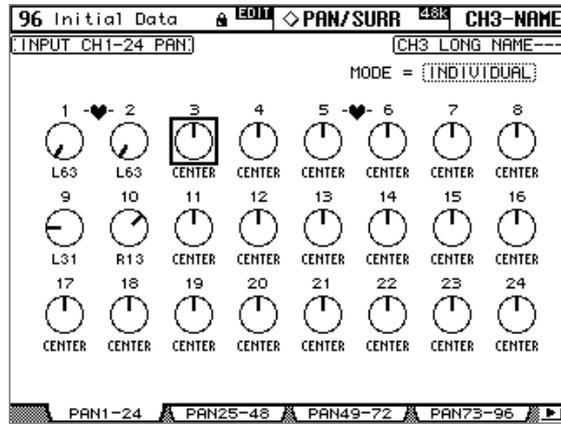
Input Channel

Pan

96

(Pan parameter)

1-24



2

control

(Parameter wheel)

INC/DEC

Input Channel Layer(

)

[SEL]

[ENTER]

control

MODE :

(pairing)

(Individual), (Gang),

(Inverse Gang)

37

(pairing)

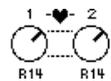
Input Channel



(Individual) Pan) control

(pairing)

(Input Channel



(Gang) control

(pairing)

(Input Channel Pan)



(Inverse Gang) Pan) control

(Input Channel

(Aux Send Pan) control

(Input Channel Pan) control

(Input Channel Pan control)

Send Pan) control

가 (94)

(Aux

, Aux Pan

Input Channel Pan

(Surr. Pan)

DM2000 3-1 5.1 (Surround)

(Panning)

(Stereo Out)

(Input Channel signal)

(Surround panning)

(, (Bus Out)).

(Bus Out)

(Surrour Mode)	(Bus Out)					
	1	2	3	4	5	6
3-1					?	?
5.1						LFE

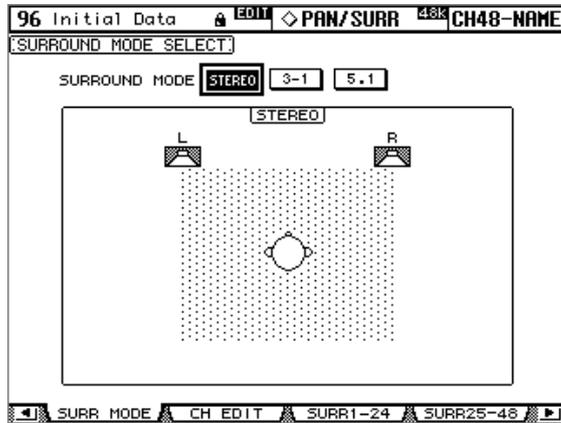
(Surround Monitoring)

134

(Surr. Pan Mode)

1 SELECTED CHANNEL PAN/SURROUND [DISPLAY]

Surround Mode()



2

(Surround Mode)

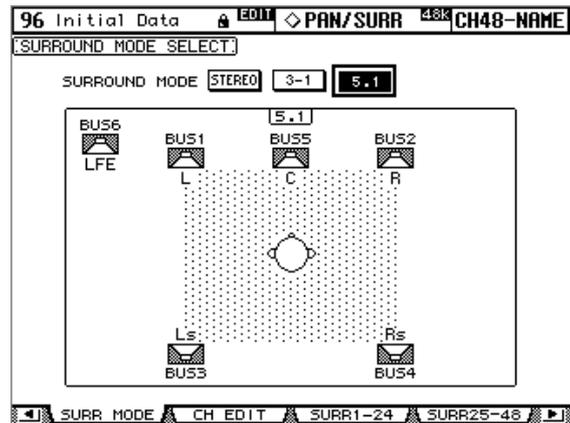
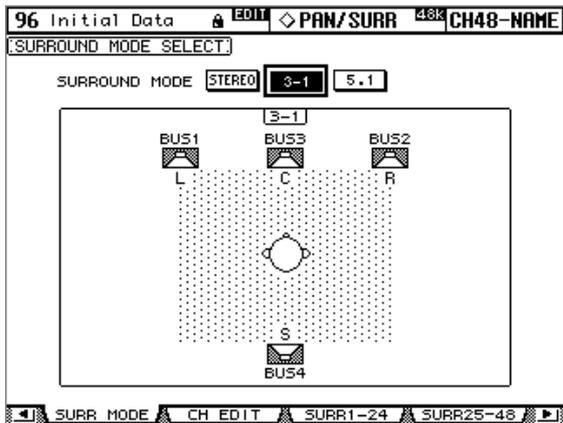
[ENTER]

3-1

5.1

(Surround channel)

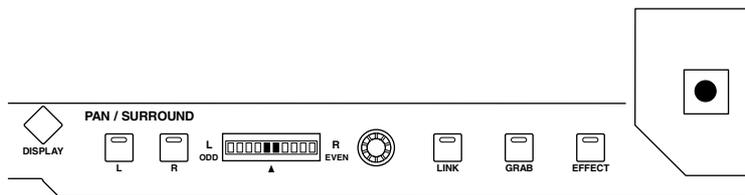
(Bus Out Setup)



(Joystick)

1 LAYER

, [SEL]



2 [GRAB]

[GRAB] 가 control

(Stereo)가

(Surround)

(Joystic Surround Pan)

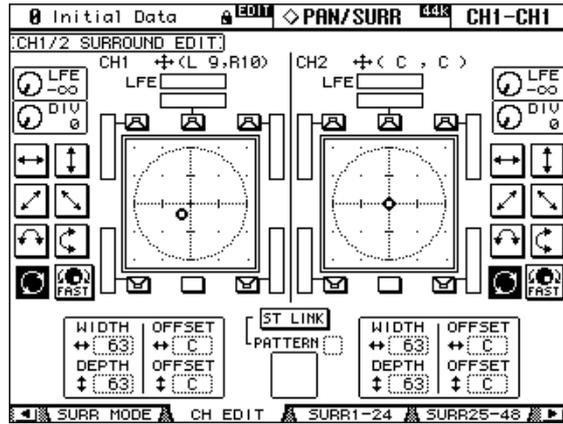
(Surround Pan Position)

, control effect (, [EFFECT] 가), [GRAB]

(Selected Channel Surround Edit)

Input Channel Surround Edit()
, Auto PAN/SURROUND Display 가
, 가
234 "Auto PAN/SURROUND Display"

1 SELECTED CHANNEL PAN/SURROUND [DISPLAY] Surround Edit()



2 LAYER (Input Channel Layer) , [SEL]

Surround Edit() Input Channel (Surround Pan parameter) "CH1(L9, R10)"

Input Channel
. Auto Grab) (235), (Surround Pan) control
(Meter) (Bus Out signal level) [ENTER]
(Surround Pan)

3 (Parameter wheel) INC/DEC , [ENTER]

LFE: LFE(Low Frequency Effects:) (5.1)
DIV: , 가 (,가) .50 , 가
, , .100 ,
(,).
: (Parameter wheel) INC/DEC 7
가
FAST: (Parameter wheel) INC/DEC
WIDTH:
DEPTH :

WIDTH OFFSET:

DEPTH OFFSET:

ST LINK: (pairing)

(Surround Pan parameter)

PATTERN : Input Channel
(Surround Pan)

, 7가
(Parameter wheel) INC/DEC

(Input Channel Surround)

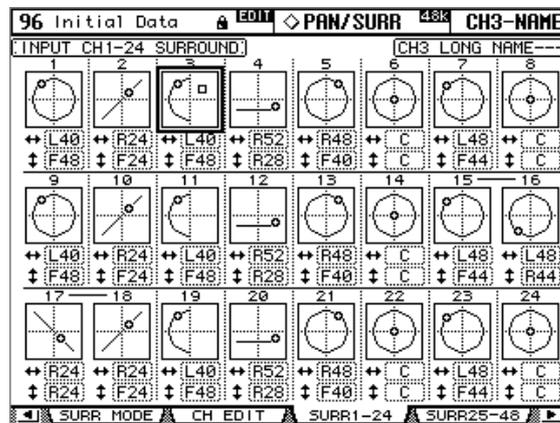
SURROUND

1 SELECTED CHANNEL PAN/SURROUND [DISPLAY]
Surround

Input Channel

96 (Surround parameter)

1-24



2 (Parameter wheel)

INC/DEC

Input Channel Layer() [SEL]

L/R: / (parameter)
, [ENTER]

F/R: / (parameter)
, [ENTER]

[ENTER]

SURROUND Edit

(Aux Send) Input Channel

(Aux Send) 1-12

88

" (Aux Send) ", 90 " (Aux Send Mute)(
/)" 88 " (Pre/Post-Fader Aux
Send)"

(Input Channel Soloing)

Input Channel Solo . 118 .

(Direct Out)

Input Channel (Direct Out) (Slot Output), (Omni
Out) 2TR (2TR Digital Output) .
(Direct Out) (Pre-EQ), (Pre-Fader)
(Post-Fader) 가 65 "
(Direct Out Patch)" 75 " (Input Channel Routing)"

(Input Channel Pairing)

Input Channel (pairing)
120 "Channel Pairing"

MS (MS Decoding)

Input Channel , MS (MS Decoding) MS
MS (MS Decoding) Input
Channel Pairing 120 "Channel Pairing"

Input Channel

View (parameter) (fader)
124 " (Output Parameter) "
125 " (Channel Fader) "

Input Channel

129 " (Channel Setting Copying)"

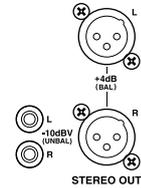
Input Channel

" " 130

8 (Stereo Out)

(Stereo Out Connector)

STEREO OUT +4 dB (Bal) XLR 3-32
 STEREO OUT -10 dBV (UNBAL)



(Stereo Out Patch)

(Stereo Out) (Slot Output), (Omni Out)
 2TR (2TR Digital Output) 63
 " (Output Patch)"

(Stereo Out)

(Routing)

(Stereo Out) 75
 " (Input Channel Routing)"

(Stereo Out)

(Bus Out)

(Bus Out Signal) (Stereo Out)
 87 " (Stereo Out) (Bus Out) "

(Stereo Out Metering)

Meter() (Stereo Out)
 103 " (Metering)"

(Stereo Out Monitoring)

LARGE SMALL CONTROL ROOM MONITOR OUT PHONES(132)
 STUDIO MONITOR OUT(133) (Stereo Out)

(Stereo Out Attenuating)

(Pre-EQ)가 (Stereo Out) 가
 106 " (Signal Attenuating)"

(Stereo Out Equalizing)

(Stereo Out) 4 (parametric) 가
 107 " (EQ) "

(Master EQ)

(Stereo Out EQ)
 110 " (Output Channel EQ)

(Stereo Out)

(Insert) (Effect processor)
 (Stereo Out) 110 "
 (Output Channel EQ) "

(Stereo Out Compressing)

113 (Stereo Out Comp) (Channel Compressing)"

(Master Comp)

(Stereo Out Comp) (Comp) (Output
116 " Channel Comp) " .

(Stereo Out Mute)(/)



STEREO [ON]

(Stereo Out)

(Stereo Out)

가

(Master Mute) (/)

(Stereo Out)

123 "

(Output Channel Mute) (/)"

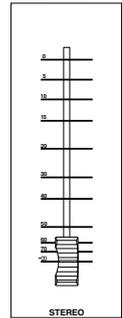
(Stereo Out)

(Stereo Out)

STEREO()

(Layer)

(Fader)



(Master Fader)

(Stereo Out)

122 "

(Output Channel Fader) "

(Matrix Send)

(Stereo Out)

97 "

(Stereo Out)

(Matrix Send)

(Matrix Send)"

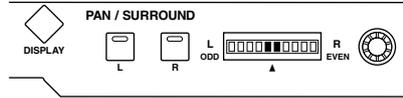
(Stereo Out Balance)

(Stereo Out)

SELECTEDCHANNEL PAN/SURROUND control

1 STEREO [SEL]

(Stereo Out)



2 control

(Pan display)

가

(Stereo Out)

125

Stereo Fader View

(Channel Fader)

(Stereo Out Delay)

(Stereo Out Delay)

117

(Stereo Out)

(Channel Signal Delay)"

GEQ

GEQ

155

"GEQ

(Stereo Out)

insert

(Stereo Out)

(Stereo Out)

" 125

(parameter)

124

(Channel Fader)

View

(Output Parameter)

(Stereo Out)

129

(Stereo Out)

(Channel Setting Copying)"

(Stereo Out)

130

(Stereo Out)

9 (Bus Out)

(Bus Out Patch)

(Bus Out) (Slot Output), (Omni Out) 2TR
(2TR Digital Output) . 63 "
(Output Patch)" .

(Bus Out)

(Input Channel Routing)

(Bus Out) (routing) . 75
" (Input Channel Routing)" .

(Bus Out Metering)

Meter() (Bus Out) .
103 " (Metering)" .

(Bus Out Monitoring)

CONTROL ROOM [ASSIGN 1] [ASSIGN 2] (Bus
Out) . 132 " (Control Room
Monitoring)" .

(Bus Out Attenuating)

(Pre-EQ)가 (Bus Out) 가 .
106 " (Signal Attenuating)" .

(Bus Out Equalizing)

(Bus Out) 4band (parametric) 가 .
107 " (EQ) " .

(Master EQ)

(Bus Out EQ)
110 " (Output Channel EQ) "

(Bus Out Insert)

Insert (Effect processor)
(Bus Out) . 111 "Insert "

(Bus Out Compressing)

(Bus Out Comp)
113 " (Channel Compressing)" .

(Master Comp)

(Bus Out Comp) (Comp)
116 " (Output Channel Comp)
" .

(Bus Out Mute)(/)

Channel strip [ON] (Bus Out)

1 **Layer**() [MASTER]

2 (Channel strip) [ON] 1-8 (Bus Out)



(Bus Out) [ON] indicator가

(Master Mute) (/)

(Bus Out Mute)

123 " (Output Channel Mute) (/)" "

(Bus Out)

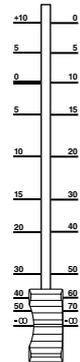
(Bus Out)

1 **LAYER** [MASTER]

2 **FADER MODE** [FADER]

3 1-8 (Bus Out)

(Bus Out)



(Master Fader)

(Bus Out)

122 " (Output Channel Fader) "

(Matrix Send) (Bus Out)

(Matrix Send) (Bus Out)

97 " (Matrix Send)"

(Bus Out Delay)

(Bus Out) (Delay)

117

" (Channel Signal Delay)"

GEQ

GEQ (Bus Out) insert

155

"GEQ"

(Bus Out Soloing)

(Bus Out) Solo 118

(Bus Out Pairing)

(Bus Out) (pairing)

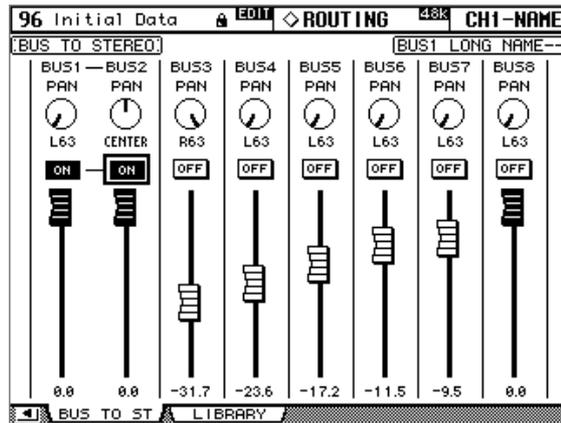
120 "Channel Pairing"

(Stereo Out)

(Bus Out)

(Bus Out) (Stereo Out Bus) (routing)
 . (Stereo Out) (Bus Out) 1
 (Preset Memory) 32 (User Memory)
 (Bus to Stereo) 143 "
 (Bus to Stereo) "

1 SELECTED CHANNEL ROUTING [DISPLAY] Bus to Stereo()



2 (Parameter wheel) INC/DEC , [ENTER]

PAN: (Stereo Out Bus) (Bus Out)
 control . [ENTER] (Pan control)

ON/OFF: (Bus Out) (Stereo Out) (routing)

Fader: (Bus Out) (Stereo Out)
 0.0 dB 가

(Bus Out)

(Bus Out) (parameter) View
 124 " (Output Parameter)
 " 125 " (Channel Fader) "

(Bus Out)

(Bus Out) (Bus Out)
 129 " (Channel Setting Copying)"

(Bus Out)

(Bus Out)
 130 " "

10 (Aux Send)

(Aux Send Master)

(Aux Send Master) (Slot Output), (Omni Out)
 2TR (2TR Digital Output) . 63
 " (Output Patch)" .

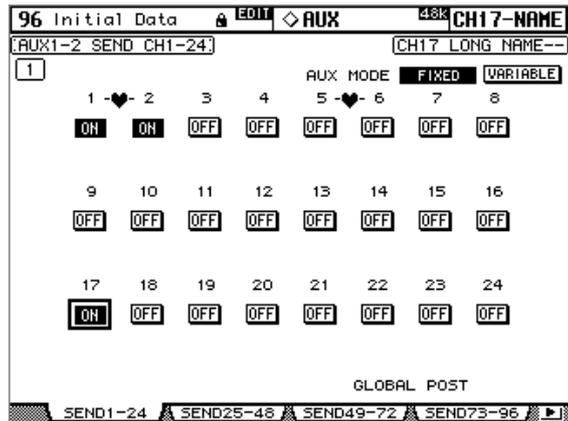
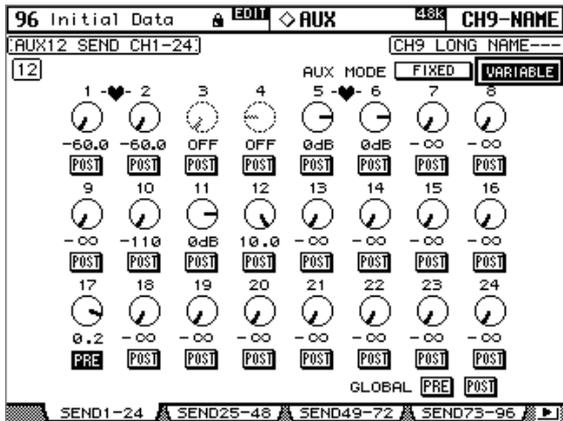
(Aux Send)

(Aux Send) 가 (Variable) (Fixed), 2가 가 ,
 12 (Aux Send) 가
 (Variable) , (Aux Send) 가
 (pre-fader) , (post-fader) 가 (Fixed)
 , (Aux Send) ,

1 AUX SELECT [DISPLAY]

Aux Send()

96 Input Channel (Aux Send)
 Input Channel 1-24 (Aux Send) , 가
 (Variable) , (Fixed)



(Fixed) "GLOBAL POST" (Aux Send)
 / (pre/post parameter)가

2 AUX SELECT [1-12]

(Aux Send) 1-12

3 FIXED VARIABLE , [ENTER]

(Aux Mode) , (Aux Send)

(Parameter)	가 (Variable)	(Fixed)	(Fixed) 가 (Variable)
			-
/			
/			

(Pre/Post-Fader Aux Send)

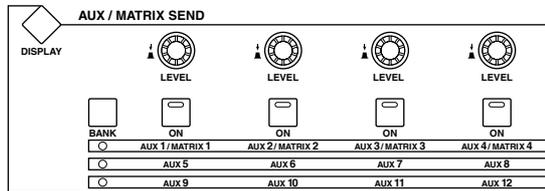
(Aux Send) Aux Send (90)) Aux View (93)

(Aux Send)

(Aux Send) SELECTED CHANNEL AUX/MATRIX SEND LEVEL Control, (Fader) (Encoder)

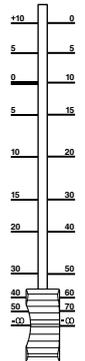
SELECTED CHANNEL AUX/MATRIX SEND LEVEL control

- 1 LAYER Input Channel (Input Channel Layer) , [SEL]
Input Channel
- 2 [BANK] Aux 1-4, Aux 5-8 Aux 9-12
- 3 LEVEL control (Aux Send)



(Fader)

- 1 LAYER Input Channel (Input Channel Layer)
- 2 FADER MODE [AUX/MTRX] / (Aux/Mtrx Fader)
- 3 AUX SELECT [1-12] (Aux Send) 1-12
- 4 (Aux Send)



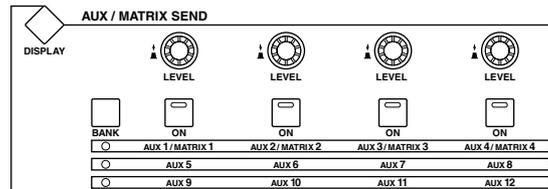
(Encoder)

- 1 LAYER Input Channel Layer
- 2 ENCODER MODE [AUX/MTRX] / (Aux/Mtrx Encoder)
- 3 AUX SELECT [1-12] (Aux Send) 1-12
- 4 (Aux Send)



(Aux Send Mute)(/)

- 1 LAYER (Input Channel Layer) , [SEL]
Input Channel .
- 2 SELECTED CHANNEL AUX/MATRIX SEND [BANK] Aux 1-4, Aux 5-8
Aux 9-12 .
- 3 SELECTED CHANNEL AUX/MATRIX SEND [ON] Input Channel
(Aux Send) .



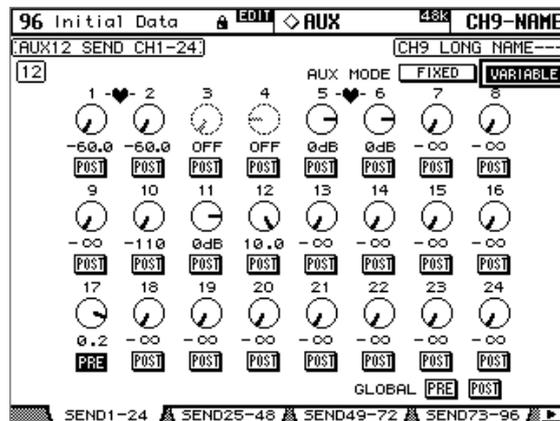
(Aux Send)

Aux Send() Input Channel (Aux Send)
 (parameter) , (Aux Send) 가
 (Variable) (Fixed) .

가 (Variable)

가 (Variable Aux) 88 .

- 1 AUX SELECT [DISPLAY] AUX SEND
96 Input Channel (Aux Send)
Input Channel 1-24 (Aux Send) 가

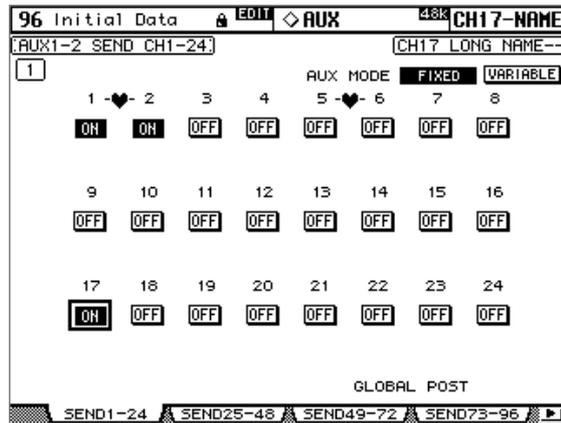


- 2 AUX SELECT [1-12] (Aux Send) 1-12 .
- 3 Input Channel(Aux Send) control .
Input Channel [SEL] Input Channel .
- 4 , Rotary control [ENTER] .
(Aux Send) Rotary control , "OFF"
(Aux Send)가 (Aux Send)

- 5 (Aux Send) , Rotary control
(Parameter wheel) INC/DEC .
- 6 / , PRE/POST [ENTER]
INC/DEC .
- 7 (Selected Aux Send) Input Channel
(Pre/Post Fader) , GLOBAL PRE POST
[ENTER] .
PRE POST , /
(post-fader) , Input Channel (pre-fader)

(Fixed)

- (Fixed Aux) 88 .
- 1 **AUX SELECT [DISPLAY] AUX SEND** .
Input Channel 1-24 Aux Send
(Fixed Mode Aux Send)



- 2 **AUX SELECT [1-12] (Aux Send) 1-12** .
- 3 (Parameter wheel) Aux Send
Input Channel (Input Channel Layer) [SEL] Input Channel
- 4 [ENTER] INC/DEC Aux Send
(Fader) / (Aux/Mtrx) ,
(Aux Send) Input Channel /
(Aux Send) , (Fader) 7† ,
(Fader) - . /

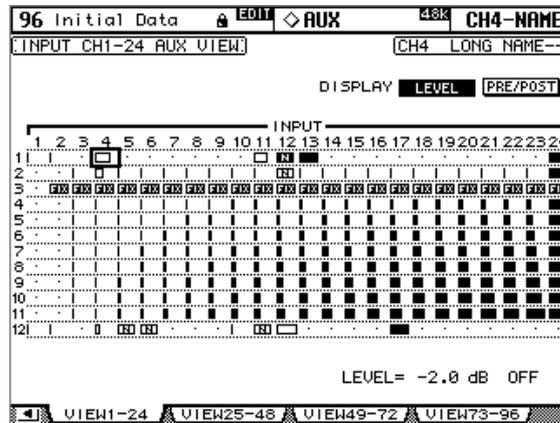
(Aux Send)

Aux View (Aux Send) ,
 (Level parameter) / (pre/post parameter)
 . Auto AUX/MATRIX Display , SELECTED CHANNEL AUX/MATRIX
 SEND control 가 . 234
 " Auto AUX/MATRIX Display"

(Level Parameter)

, Aux View() (Aux Send) /
 가 . (Fixed Mode Aux Send) 가

- 1 **AUX SELECT [DISPLAY]** Aux View() .
- 2 **DISPLAY LEVEL** , [ENTER] .
- 96 Input Channel (Aux View) .
 Input Channel 1-24 Aux View



- 3 **Input Channel** (Input Channel Aux Send)
 Input Channel Layer(Input Channel) [SEL] Input Channel
 . AUX SELECT [1-4] (Aux Send)
- 4 (Parameter wheel) **INC/DEC** (Aux Send)
- 5 **[ENTER]** (Selected Aux Send)
 Aux View indication .
 , - , (Aux Send)
 ■
 □
 ■
 ■
 ■
 (Fixed Mode Aux Send)
 가 (Variable Aux) , (Aux Send) /
 (parameter) "LEVEL: -2.0 dB ON/OFF: ON"
 (Fixed Aux) , (Selected Aux Send) /
 "LEVEL: FIXED ON/OFF:ON"

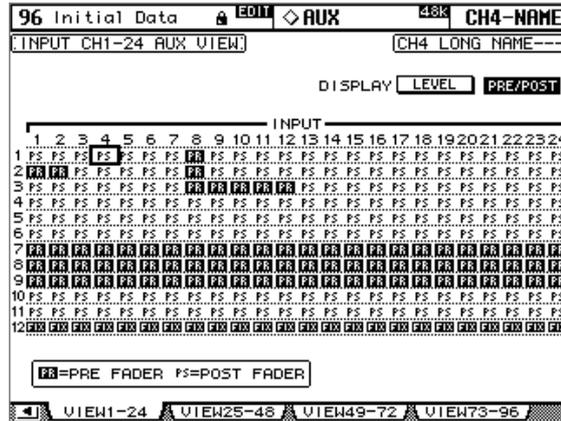
/ (Pre/Post Parameter)

(Pre/Post) (Aux View) / (Aux Send pre/post parameter)가 (Fixed Mode Aux Send) 가 .

1 AUX SELECT [DISPLAY] Aux View() .

2 DISPLAY PRE/POST , [ENTER] .

Input Channel 1-24 Aux View() / (Pre/post) / (Aux View)



3 (Parameter wheel) Input Channel (Input Channel Aux Send)

Input Channel (Input Channel Layer) [SEL] Input Channel (Aux Send) .AUX SELECT [1-12]

4 [ENTER] INC/DEC (Aux Send) (pre-fader) (post-fader)

Aux View indication

PR (Aux Send), (pre-fader)

PO (Aux Send), (post-fader)

FR (Fixed Mode Aux Send)

(Fixed Mode Aux Send) [ENTER] INC/DEC

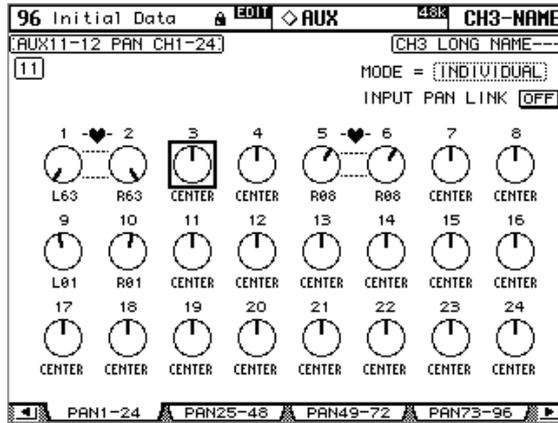
(Aux Send Panning)

(Aux Send)가 (pairing) , (pairing) (Aux Bus)
 (Aux Send) 120 "Channel Pairing"
 are not paired(x-x (pairing))" 가 , "AUXx-x"
 Follow Surround() (pairing) Output Pair()
 (Input Channl Surround Pan) (Aux Send) Input Channel
 "Now AUXx-x PAN Following Surround(x-x)" 가
 96 " (Aux Send Pairing)"

1 AUX SELECT [DISPLAY]

Aux Pan()

96 Input Channel (Aux Pan parameter)
 Input Channel 1-24 Aux Pan()

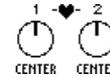


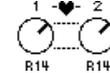
2 AUX SELECT [1-12]

(Aux Send) 1-12

3 Input Channel (Parameter wheel) (Aux Send) (Input Channel Aux Send) control
 Input Channel (Input Channel Layer) [SEL] Input Channel

[ENTER] control
MODE: (pairing) (Aux Send)
 (Individual), (Gang), (Inverse Gang) 3가

(Individual) , (Aux Send) control


(Gang) , (pairing) Input Channel (Aux Send)
 Pan) control


(Inverse Gang) , (pairing) Input Channel(Input
 Chan nel) (Aux Send Pan) control ,

INPUT PAN LINK: (Aux Send Pan) control Input Channel (Input Channel
 Pan) control , Input Channel control 가 (Aux
 Send) , Input
 Channel Pan Pan 가 (Aux Send)
 , AUX Pan Input Channel Pan Pan
 (76)).

(Aux Send Master Metering)

Meter Aux Send 103
 "Metering"

(Aux Send Master Monitoring)

CONTROL ROOM [ASSIGN 1] [ASSIGN 2] Aux Send
 132 " (Control
 Room Monitoring)" (Aux) 11 (Aux) 12 STUDIO MONITOR
 OUT (133).

(Aux Send Attenuating)

(Pre-EQ)가 Aux Send 가
 106 " (Signal Attenuating)"

(Aux Send Master Equalizing)

(Aux Send) 4 band (parametric) 가
 107 " (EQ) "

(Master EQ)

Aux Send Output Channel
 110 " (Output Channel EQ) "

(Aux Send)

Insert (Internal Effect processor)
 Aux Send 111 "Insert "

(Aux Send Master Compressing)

(Aux Send) (compressor)
 113 " (Channel Compressing)"

(Master Compressor)

Aux Send (compressor) (compressor)
 Channel Comp) " 116 " (Output

(Aux Send Master Mute) (ON/OFF)

- 1 LAYER [MASTER]
- 2 Channel strip [ON] 9-20 (Aux Send)



(Aux Send) [ON] indicator가

(Master Mute) (/)

(Aux Send)
 123 " (Output Channel Mute) (/)"

(Aux Send)

(Aux Send)

1 LAYER [MASTER]

2 FADER MODE [FADER]

3 (Fader) 9-20

(Aux Send)

Aux Send

(Master Fader)

(Aux Send)

(Fader)

Output Channel

(Fader)

122

(Output Channel Fader)

(Matrix Send)

(Aux Send)

(Matrix Send)

(Aux Send)

97

(Matrix Send)"

((Aux Send Master Delay)

(Aux Send)

(Delay)

117

"

(Channel Signal Delay)"

GEQ

(GEQ Insert)

(Aux Send)

GEQ insert

155

"GEQ

(Aux Send Soloing)

(Aux Send) Solo

118

(Aux Send Pairing)

Aux Send

120

"Channel Pairing"

(Aux Send)

View

(Aux Send)

(parameter)

(Fader)

124

(Output Parameter)

" 125

(Channel Fader)

(Aux Send)

(Aux Send)

(Aux Send)

129

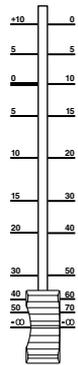
(Channel Setting)

Copying)"

(Aux Send)

(Aux Send)

130



11

(Matrix Send)

(Output)

(Matrix Send)
 Out) 2TR (2TR Digital Output)
 " (Output Patch)"

(Matrix Send Master Patch)

(Slot Output), (Omni)
 63

/

(Pre/Post-Fader Matrix Send)

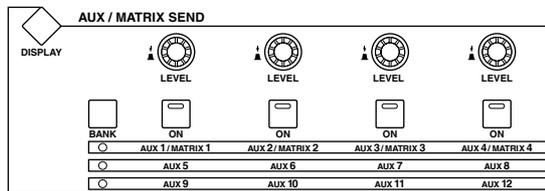
Matrix View() (Matrix Send) /
 (Pre/Post Fader) 99 "
 (Matrix Send) "

Matrix Send

SELECTED CHANNEL AUX/MATRIX SEND LEVEL Control, (Fader)
 (Encoder) (Matrix Send)

SELECTED CHANNEL AUX/MATRIX SEND LEVEL control

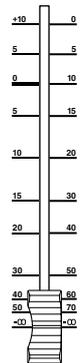
- 1 LAYER [MASTER]
- 2 [SEL] 1-20 (Bus Out) (Aux Send)
 STEREO [SEL] (Stereo Out) (Matrix Send)
- 3 LEVEL Control (Matrix Send)



(Fader)

(Stereo Out Matrix Send)

- 1 LAYER [MASTER]
- 2 FADER MODE [AUX/MTRX] /
- 3 MATRIX SELECT [1-4] (Matrix Send) 1-4
- 4 (Fader) 1-20 (Matrix Send) (Matrix Send) control
 (Matrix Send) 21-24
 (Matrix Send)



(Encoder)

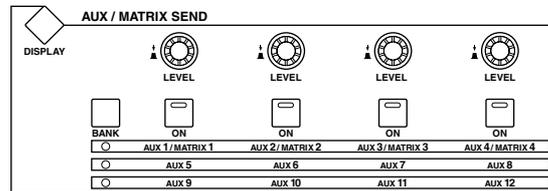
(Stereo Out Matrix Send)

- 1 LAYER [MASTER]

- 2 ENCODER MODE [AUX/MTRX] /
- 3 MATRIX SELECT [1-4] (Matrix Send) 1-4
- 4 (Encoder) 1-20 (Matrix Send) (Matrix Send) control 
- (Matrix Send) (Encoder) 21-24

(Matrix Send Mute)(ON/OFF)

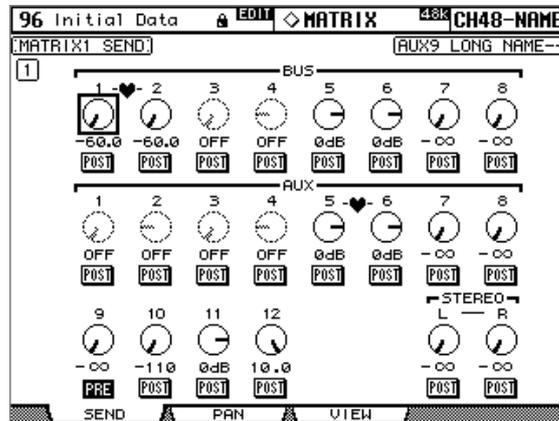
- 1 LAYER [MASTER]
- 2 [SEL] 1-20 (Bus Out) (Aux Send)
- STEREO [SEL] (Stereo Out) (Stereo Out) (Matrix Send)
- (Stereo Out) STEREO [SEL]
- 3 SELECTED CHANNEL AUX/MATRIX SEND [ON] (Matrix Send)



(Matrix Send)

Matrix Send() (Bus Out), (Aux Send),
 (Stereo Out) (Matrix Send)

- 1 MATRIX SELECT [DISPLAY] Matrix Send()



- 2 (Matrix Select) [1-4] (Matrix Send) 1-4

- 3 가 , [SEL] 1-20 (Matrix Send) control (Output Channel)

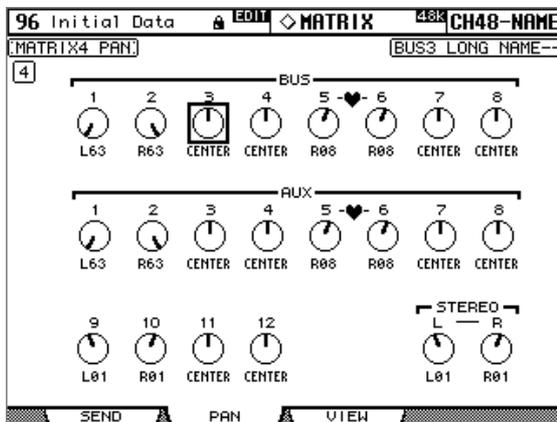
- 4 (Matrix Send) , Rotary control [ENTER]

(Matrix Send) Rotary control , (Matrix Send)
 "OFF" (Matrix Send)

- 5 (Matrix Send) , Rotary control
 (Parameter wheel) INC/DEC

Matrix Send Panning

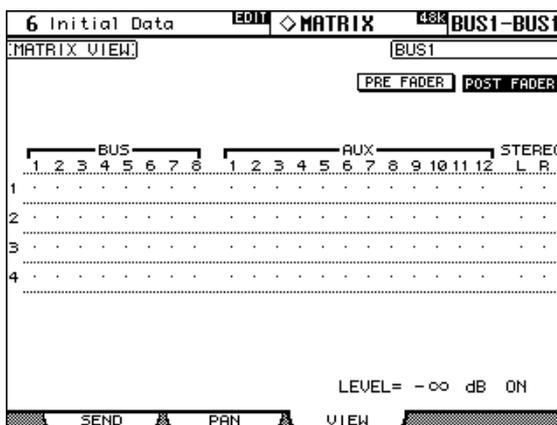
- Matrix Send Pan (Matrix Send)
- (Stereo Out) (Matrix Send)
- 1 MATRIX SELECT [DISPLAY] Matrix Send Pan()



- 2 MATRIX SELECT [1-4] (Matrix Send) 1-4
- 3 (Output Channel Matrix Send) control (Parameter wheel) INC/DEC
- 가 , [SEL] 1-20 (Output Channel)
- [ENTER] control

(Matrix Send)

- Matrix View (Matrix Send) (Matrix Send)
- / (parameter) , Auto AUX/MATRIX Display
- , SELECTED CHANNEL AUX/MATRIX SEND control 가
- 234 "AutoAUX/MATRIX Display"
- 1 MATRIX SELECT [DISPLAY] MATRIX Send View()



- 2 PRE FADER POST FADER , [ENTER] (Matrix Send)
- 3 (Output Channel Matrix Send)

가 , [SEL] 1-20 Output Channel
. MATRIX SELECT [1-4] (Matrix Send)

4 (Parameter wheel) INC/DEC
(Matrix Send)

5 [ENTER] (Selected Matrix Send)

Matrix View()



(Matrix Send) dB /

(Matrix Send Master Metering)

Meter (Matrix Send)
103 " (Metering)"

(Matrix Send Master Monitoring)

CONTROL ROOM [ASSIGN 1] [ASSIGN 2]
(Matrix Send) 132 "
(Control Room Monitoring)"

(Matrix Send Master Attenuating)

(Pre-EQ)가 (Matrix Send) 가
106 " (Signal Attenuating)"

(Matrix Send Master Equalizing)

(Matrix Send) 4band (parametric) 가
107 " (EQ) "

(Master EQ)

(Matrix Send) Output Channel
110 " (Output
Channel EQ) "

(Matrix Send)

(Insert) (Effect processor)
(Matrix Send) 111
"Insert "

(Matrix Send Master Compressing)

(Matrix Send Master Compressor)
113 " (Channel Compressing)"

(Master Compressor)

(Matrix Send Master Compressor) Output Channel
 (compressor) " 116 "
 (Output Channel Comp) " .

(Matrix Send Master Mute) (ON/OFF)

(Matrix Send)

- 1 LAYER [MASTER]
- 2 Channel strip [ON] 21-24 (Matrix Send)



(Matrix Send) [ON] 가

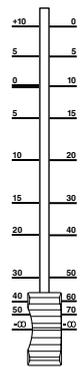
(Master Mute)(ON/OFF)

(Matrix Send) Output Channel
 123 " (Output Channel Mute)
 (/)"

(Matrix Send)

(Matrix Send)

- 1 LAYER [MASTER]
 - 2 FADER MODE [FADER]
 - 3 (Fader) 21-24 (Matrix Send)
- (Matrix Send)



(Master Fader)

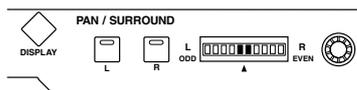
(Matrix Send) Output Channel
 122 " (Output Channel Fader)
 "

(Matrix Send Master Balance)

(Matrix Send)

SELECTED CHANNEL PAN/SURROUND control

- 1 LAYER [MASTER] , [SEL] 21-24
 (Matrix Send)



- 2 control (Selected Matrix Send)

(Pan display)
 가

(Matrix Send) 125 " Matrix Fader View (Channel Fader) "

(Matrix Send Master Delay)

117 (Matrix Send) (Delay) " (Channel Signal Delay) "

(Matrix Send Soloing)

(Matrix Send) Solo . 118

GEQ

(Matrix Send) 155 "GEQ" " GEQ insert .

(Matrix Send)

(Matrix Send) (parameter) View() , 124 " (Output Parameter) " 125 " (Channel Fader) "

(Matrix Send)

(Matrix Send) (Matrix Send) 129 " (Channel Setting Copying)" .

(Matrix Send)

130 " (Matrix Send) " .

12

Metering

Meter processor Input Channel, Bus Out, Aux Send, Matrix Send, Stereo Out, Effect DISPLAY ACCESS [METER]

(Input & Output Channel Meter)

(Fader)

(Peak Hold)

(Meter)

(Metering Position)

(pre-EQ),

(pre-fader)

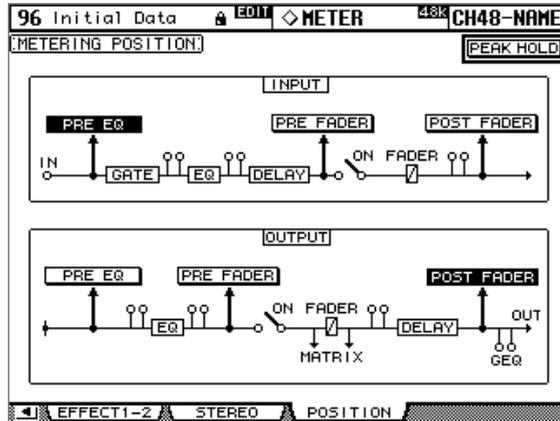
(post-fader)

Input & Output Channel

Metering Position

Input & Output

Channel Meter()



PRE EQ:

PRE FADER:

POST FADER:

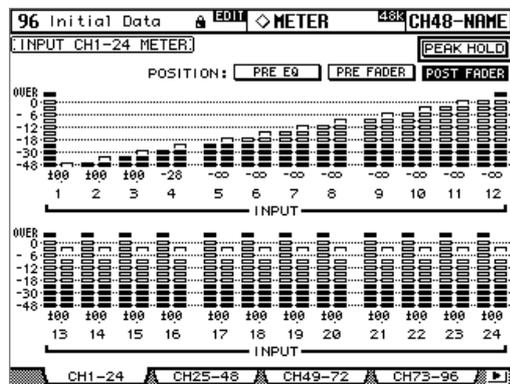
(Input Channel Metering)

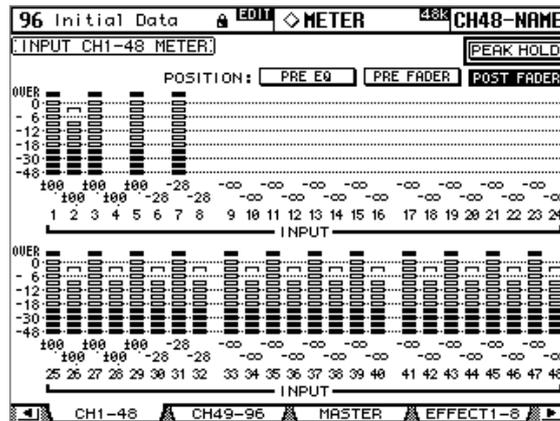
Input Channel Meter 24 48 , 가 . 24

가 . Input Channel 1-24

Input Channel (pairing)

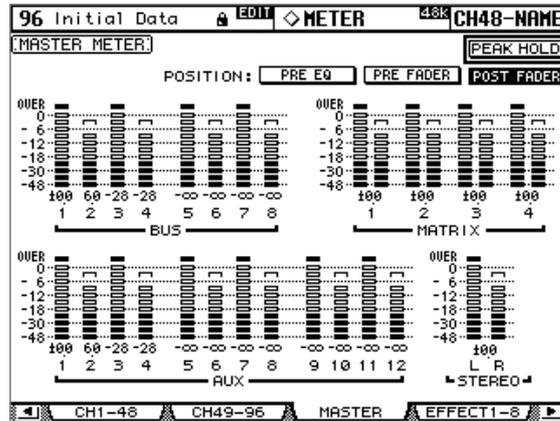
가 . Input Channel . Input Channel (pairing)





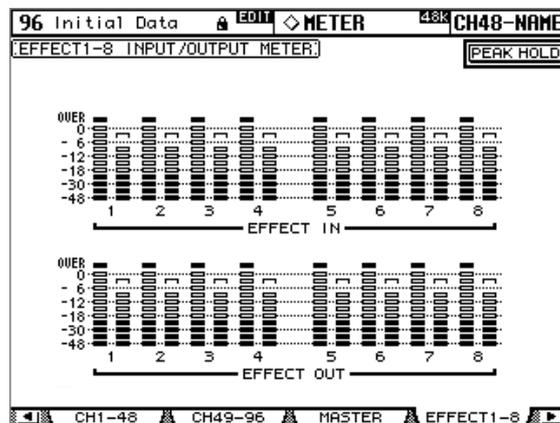
(Output Channel Metering)

Bus Out, (Aux Send), (Matrix Send), (Stereo Out)
 Master Meter



(Effect Metering)

Effects Input/Output Meter (Effect) 1-8 (Effect) 1-2, 가
 Effects 1-8 Input/Output Meter (Effect processor)
 Input & Output Level Meter가

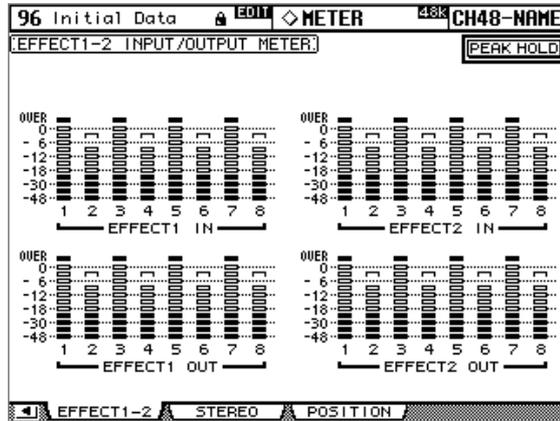


Effects 1-2 Input/Output Meter

(Effect processor) 1 2

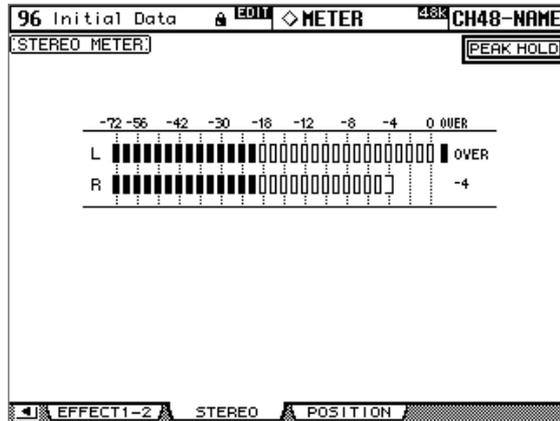
8 Input & Output

가



(Stereo Out Metering)

(Stereo Out) Stereo Meter()
(Peak signal)

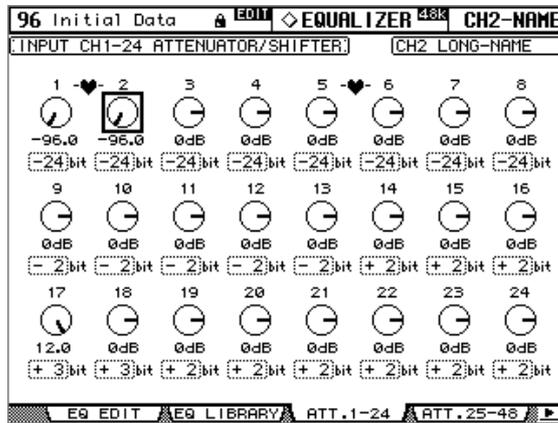


(Signal Attenuating)

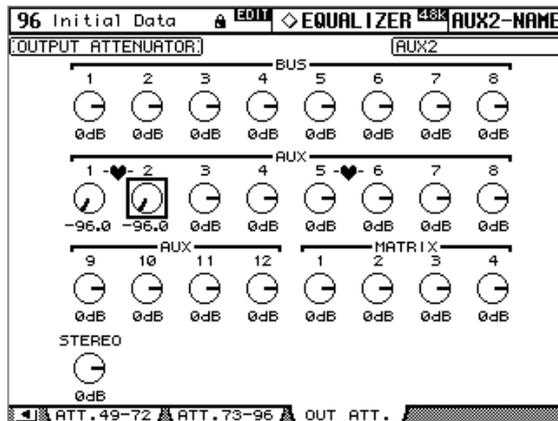
Input Channel, Bus Out, Aux Send, Matrix Send, Stereo Out
 (hot)" (Attenuating)
 (Pre-EQ Attenuating)

SELECTED CHANNEL EQUALIZER ATT control

- 1 LAYER , [SEL] (Attenuator)
- 2 ATT control (attenuation)
- 1 EQUALIZER [DISPLAY] (Attenuator)
- 96 Input Channel (Attenuator parameter)
- Input Channel 1-24 Attenuator/Shifter



(Attenuator parameter) Output Attenuator



- 2 (Parameter wheel) INC/DEC (attenuate)

LAYER [SEL] Input & Output Channel
 [ENTER()] Input & Output Channel
 (attenuate)
 Input Channel (attenuation) +2 -24
 가 (Parameter wheel) INC/DEC (Rotary attenuator)

(EQ)

Input Channel, Bus Out, Aux Send, Matrix Send, Stereo Out 4 band
 (parametric) 가 LOW-MID HIGH-MID (peaking)
 . LOW HIGH (shelving), , HPF LPF
 . 40 (Preset Memory) 160 (User
 Memory) EQ EQ
 146 " (EQ) "

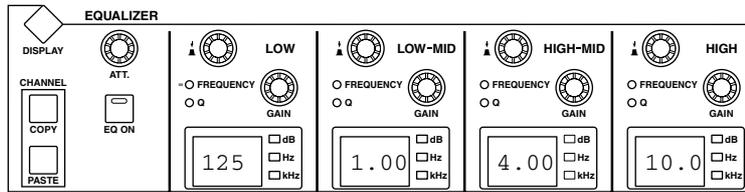
292

1	Bass Drum 1	가 (attack)
2	Bass Drum 2	80 Hz
3	Snare Drum 1	" 가 (rimshot)
4	Snare Drum 2	(Classic rock snare drum)
5	Tom-tom 1	(attack) "가 "
6	Cymbal	" " (decay)
7	High Hat	(high-hat)
8	Percussion	(attack) 가 (shaker), (cabasa), 가(conga)
9	E. Bass 1	
10	E. Bass 2	9
11	Syn.Bass 1	
12	Syn.Bass 2	
13	Piano 1	
14	Piano 2	
15	E. G. Clean	(hard)
16	E. G. Crunch 1	(distortion)
17	E. G. Crunch 2	16 (variation)
18	E. G. Dist. 1	(distortion)
19	E. G. Dist. 2	18 (variation)
20	A. G. Stroke 1	
21	A. G. Stroke 2	20 (variation)
22	A. G. Arpeg. 1	
23	A. G. Arpeg. 2	22 (variation)
24	Brass Sec.	HIGH-MID(- ') HIGH()
25	Male Vocal 1) HIGH() HIGH-MID(-
26	Male Vocal 2	25
27	Female Vo. 1) HIGH() HIGH-MID(-
28	Female Vo. 2	27 (variation)
29	Chorus&Harmo	
30	Total EQ 1	(stereo mix) 가
31	Total EQ 2	30
32	Total EQ 3	30 (variation)

33	Bass Drum 3	1	(variation)	,	.
34	Snare Drum 3	3	(variation)	,	.
35	Tom-tom 2	5	(variation)	,	.
36	Piano 3	13	(variation)	.	
37	Piano Low				
38	Piano High				
39	Fine-EQ Cass				가
40	Narrator				

SELECTED CHANNEL EQUALIZER control

1 LAYER , [SEL]



2 [EQ ON]

3 GAIN control

GAIN control , (EQ display) (Gain) dB
 . 2 GAIN control , (EQ display)

**4 , FREQUENCY/Q control FREQUENCY() indicator
 , FREQUENCY/Q control
 (EQ display) 가**

**5 Q , FREQUENCY/Q control Q indicator , FREQUENCY/Q control Q
 (EQ display) Q . 2 Q control
 (EQ parameter)**

	LOW	LOW-MID	HIGH-MID	HIGH
(Gain)	-18.0 dB ~ +18.0 dB (0.1 dB) ¹			
	21.1 Hz ~ 20.0 kHz (1/12 120)			
Q	HPF, 10.0 ~ 0.10 (41), L.SHELF	10.0 ~ 0.10 (41)		LPF, 10.0 ~ 0.10 (41), H.SHELF

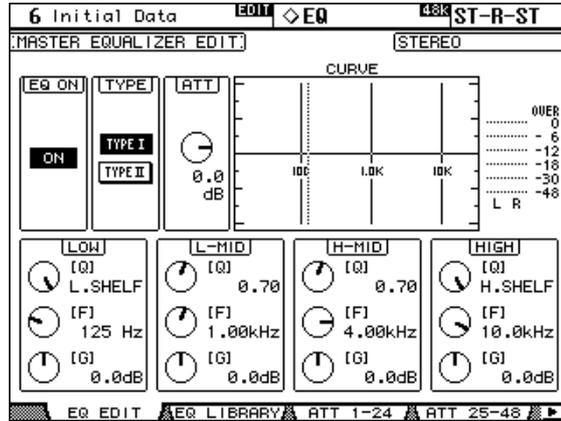
1. Q HPF LPF , LOW HIGH GAIN control / control
 (EQ parameter)

	LOW	LOW-MID	HIGH-MID	HIGH
(Gain)	0 dB			
	125 Hz	1.00 kHz	4.00 kHz	10.0 kHz
Q	L.SHELF	0.70		H.SHELF

(EQ Edit)

(EQ parameter) EQ Edit . Auto
 EQUALIZER Display , SELECTED CHANNEL EQUALIZER control
 가 . 234 "Auto
 EQUALIZER Display"

1 EQUALIZER [DISPLAY] EQ Edit()



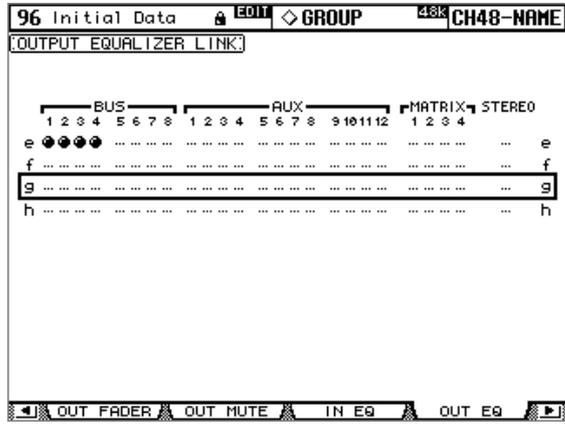
2 LAYER , [SEL]
 3 , (Parameter wheel) INC/DEC

EQ ON: (EQ) . TYPE 가
 [ENTER]
TYPE: , I (Yamaha
) II ()
ATT: (Pre-EQ) (attenuating)
 . Attenuator() (Attenuator
 parameter) 106 " (Signal
 Attenuating)"
CURVE: Input Channel (EQ)
 : Input Channel
LOW, L-MID, H-MID, HIGH: 4가 Q, (F), (G)
 (parameter)가

(Output Channel EQ)

Bus Out, Aux Send, Matrix Send, Stereo Out (EQ)
 Output Channel (EQ)
 (Output Channel EQ) e, f, g, h

- 1 **DISPLAY ACCESS [GROUP]** Output Equalizer Link()



- 2 **Layer [MASTER]**
- 3 **Up/Down** (EQ) e-h 가
- 4 **[SEL]** Output Channel 가 Output Channel (EQ) 가 Output Channel 가 , [SEL] indicator가

Insert

Input Channel, Bus Out, Aux Send, Matrix Send, Stereo Out (Insert)가

가

SELECTED CHANNEL PHASE/INSERT [INSERT ON]

1 LAYER , [SEL]

2 [INSERT ON] (Insert)



(Insert)

Insert()

. Auto PHASE/INSERT Display

, SELECTED CHANNEL PHASE/INSERT [INSERT ON]

가

234

"Auto PHASE/INSERT Display"

1 SELECTED CHANNEL PHASE/INSERT [DISPLAY]

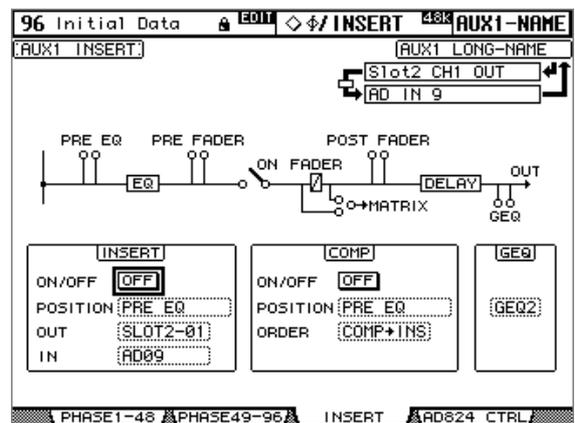
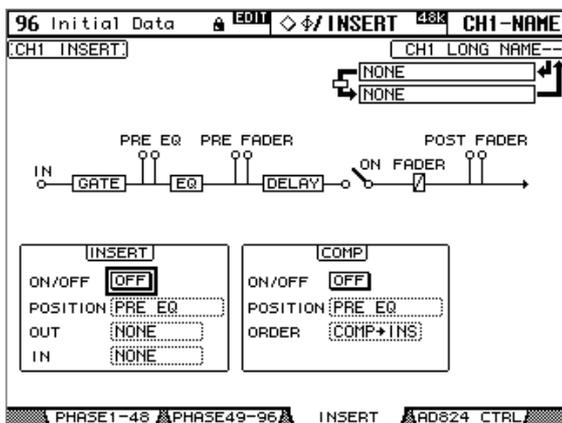
Insert

Input Channel Insert (Stereo Out)

(Insert)

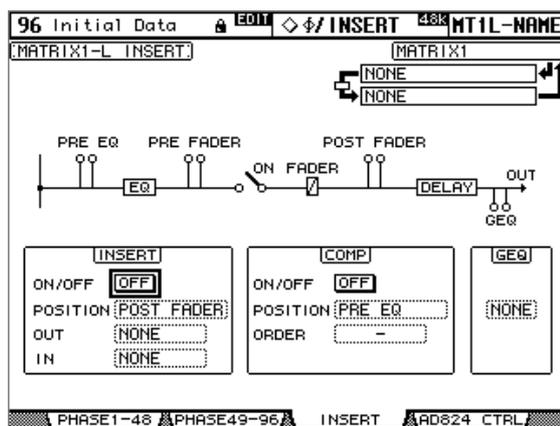
Bus Out,

(Aux



(Matrix Send)

(Insert)



2 **LAYER** , [SEL] .

3 (parameter) (Parameter wheel) INC/DEC , [ENTER] .

INSERT ON/OFF: . SELECTED CHANNEL
 PHASE/INSERT [INSERT ON]

INSERT POSITION: (Insert Position) ,
 (Pre-EQ), (Pre Fader) (Post Fader)

INSERT OUT: (Insert Out) , (Slot Out),
 (Omni Out), 2TR (2TR Digital Out) (Effect
 processor) (Input/Output Patch
 parameter) 242 247
 ID가

(Patch Select Windows)(67) ,
 [ENTER] (Insert
 Out) Output Patch() 63
 " (Output Patch)"

INSERT IN: (Insert In) , AD (AD Input),
 (Slot Input), 2TR (2TR Digital & Analog Input)
 (Effect processor) (Input Channel Insert In)
 242 , (Output Channel Insert In) 247
 ID가

(Patch Select
 Windows)(67)
 [ENTER] (Insert In) Input Channel Insert In Patch
 64 "

(Output Channel Insert In)"

COMP ON/OFF: (compressor) . SELECTED
 CHANNEL DYNAMICS [COMP ON] , Comp Edit ON/OFF
 113 " (Channel Compressing)"

COMP POSITION: (compressor) ,
 (Pre-EQ), (Pre Fader) (Post Fader) .
 (Comp Edit) POSITION
 113 " (Channel Compressing)"

COMP ORDER: (Insert) (Comp)
 (: INSERT POSITION COMP POSITION()가) ,
 (Insert) (Comp) (Comp)-> (Insert),
 (Insert)-> (Comp)

GEQ: Output Channel GEQ insert
 (parameter) . Graphic Equalizer Edit (155)
 Graphic Equalizer Insert (66)
 (Effect processor) Y56K (Card Effect Chain)
 , EFFECTS/PLUG-INS [CHANNEL INSERTS]
 Effects Edit Plug-In Edit . indicator가
 EFFECTS/PLUG-INS [1-8] indicator가
 가

(Channel Compressing)

Input Channel, Bus Out, Aux Send, Matrix Send, Stereo Out
 (Compressor)가 .36 88

(Comp) " 145 "

(Comp)

(Comp) (para
 meter) 296

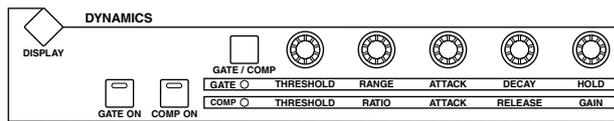
1	Comp	COMP	(compressor)
2	Expand	EXPAND	
3	Compander (H)	COMPAND-H	- (kneed) (compressor)
4	Compander (S)	COMPAND-S	- (kneed) (compressor)
5	A. Dr. BD	COMP	(compressor)
6	A. Dr. BD	COMPAND-H	- (kneed)
7	A. Dr. SN	COMP	(compressor)
8	A. Dr. SN	EXPAND	
9	A. Dr. SN	COMPAND-S	- (kneed)
10	A. Dr. Tom	EXPAND	
11	A. Dr. OverTop	COMPAND-S	- (kneed)
12	E. B. Finger	COMP	가 (compressor)
13	E. B. Slap	COMP	(compressor)
14	Syn.Bass	COMP	(compressor)
15	Piano1	COMP	(compressor)
16	Piano2	COMP	15 ,
17	E. Guitar	COMP	" (cutting)" (compressor)
18	A. Guitar	COMP	" (stroke)" (compressor)
19	Strings1	COMP	(compressor)
20	Strings2	COMP	19 ,
21	Strings3	COMP	20 ,
22	BrassSection	COMP	(compressor)
23	Syn.Pad	COMP	(compressor) ,
24	SamplingPerc	COMPAND-S	(compressor)
25	Sampling BD	COMP	24 ,
26	Sampling SN	COMP	25 , (snare drum)
27	Hip Comp	COMPAND-S	26 , (loop) (phrase)

28	Solo Vocal1	COMP	(compressor)
29	Solo Vocal2	COMP	28 (variation)
30	Chorus	COMP	28 (variation) , .
31	Click Erase	EXPAND	(click track) (expander)
32	Announcer	COMPAND-H	가 - (kneed) (compander)
33	Limiter1	COMPAND-S	가 - (kneed) (compander)
34	Limiter2	COMP	" - " (compressor)
35	Total Comp1	COMP	(compressor)
36	Total Comp2	COMP	35 , 가 .

SELECTED CHANNEL DYNAMICS control

1 LAYER , [SEL]

2 SELECTED CHANNEL DYNAMICS [COMP ON]
(Compressor)



3 SELECTED CHANNEL DYNAMICS [GATE/COMP] DYNAMICS control
COMP (COMP indicator가), THRESHOLD, RATIO, ATTACK,
RELEASE GAIN control

(Comp Edit)

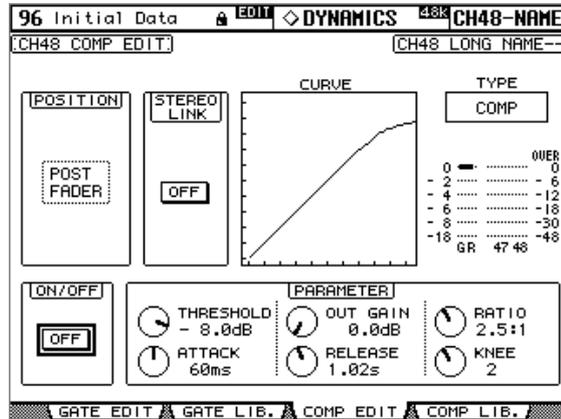
Comp Edit() , . Auto
DYNAMICS Display , SELECTED CHANNEL DYNAMICS
control 가 . 234
"Auto DYNAMICS Display"

1 LAYER , [SEL]

2 SELECTED CHANNEL DYNAMICS [DISPLAY] (Comp)

145 " (Comp) "

3 SELECTED CHANNEL DYNAMICS [DISPLAY] Comp Edit()

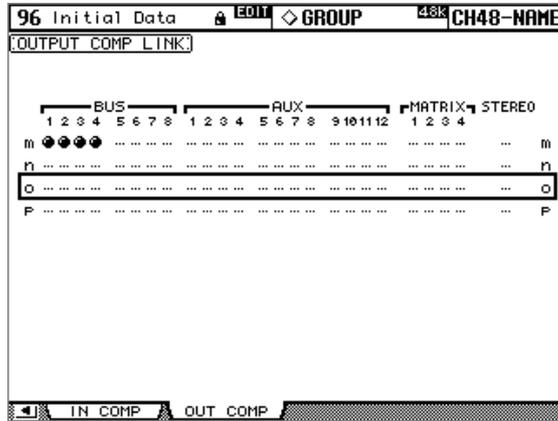


- 4 , (Parameter wheel) INC/DEC
 , [ENTER]
POSITION: (Pre EQ), (Pre Fader) (Post Fader) (Insert) (Insert)
 COMP POSITION 111 "Insert"
STEREO LINK: (Pairing) (Input Channel Comp)
 (compressor) Input Channel (Pair) (pairing) 120
 "Channel Pairing" 가
CURVE: (Comp) (, (Input) (Output))
TYPE: (Comp)가
Meter: Input Channel (Comp)가 (gain)
 . GR
ON/OFF: (Comp) . SELECTED CHANNEL
 DYNAMICS [COMP ON]
PARAMETER: (Threshold), (Ratio), (Attack), (Release),
 (Out Gain), (Knee) control .

(Output Channel Comp)

Bus Out, Aux Send, Matrix Send, Stereo Out , Output
 Channel (compressing)
 (Output Channel Comp) m, n, o, p

- 1 **DISPLAY ACCESS [GROUP]** Output Comp Link()



- 2 **LAYER [MASTER]** .
- 3 **Up/Down** m-p .
가
- 4 **[SEL]** Output Channel 가 .
가 Output Channel 가
Output Channel .
Output Channel 가 , [SEL] indicator가 .

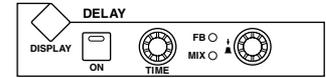
(Channel Signal Delay)

Input Channel, Bus Out, Aux Send, Matrix Send, Stereo Out
 (Delay) (Input Channel Delay) (Mix) (Gain parameter)

SELECTED CHANNEL DELAY control

1 LAYER , [SEL]

2 [ON] (Delay)



3 TIME control

Input Channel (FB) (MIX)

FB/MIX

FB MIX

FB/MIX control

(Delay)

Delay Auto DELAY Display 가

, SELECTED CHANNEL DELAY control "Auto DELAY Display" 가

1 SELECTED CHANNEL DELAY [DISPLAY] Delay()

96 Input Channel (Delay parameter)

Input Channel 1-24 (Delay)

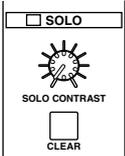
96 Initial Data		EDIT		DELAY		48k		CH1-NAME	
[INPUT CH1-24 DELAY]				[CH1 LONG NAME---					
DELAY SCALE [meter] [feet] [sample] [beat] [frame] [GANG]									
	1	2	3	4	5	6	7	8	
[msec]	1000.0	1820.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[sample]	48000	87360	0	0	0	0	0	0	0
MIX	+100	+100	+100	+100	+100	+100	+100	+100	+100
FB.GAIN	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
	9	10	11	12	13	14	15	16	
[msec]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[sample]	0	0	0	0	0	0	0	0	0
MIX	+100	+100	+100	+100	+100	+100	+100	+100	+100
FB.GAIN	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
	17	18	19	20	21	22	23	24	
[msec]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[sample]	0	0	0	0	0	0	0	0	0
MIX	+100	+100	+100	+100	+100	+100	+100	+100	+100
FB.GAIN	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
	CH1-24	CH25-48	CH49-72	CH73-96					

Bus Out, Aux Send, Matrix Send, Stereo Out (Delay parameter) Output Delay

96 Initial Data		EDIT		DELAY		48k		CH3-NAME	
[OUTPUT DELAY]				[CH3 LONG NAME---					
DELAY SCALE [meter] [feet] [sample] [beat] [frame] [GANG]									
BUS	1	2	3	4	5	6	7	8	
[msec]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[sample]	0	0	0	0	0	0	0	0	0
AUX	1	2	3	4	5	6	7	8	
[msec]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[sample]	0	0	0	0	0	0	0	0	0
AUX	9	10	11	12	STEREO	L	R		
[msec]	0.0	0.0	0.0	0.0	[msec]	0.0	0.0		
[sample]	0	0	0	0	[sample]	0	0		
MATRIX	1L	1R	2L	2R	3L	3R	4L	4R	
[msec]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
[sample]	0	0	0	0	0	0	0	0	
	OUTPUT								

2 (Delay parameter)
 (Parameter wheel) INC/DEC , [ENTER]
 LAYER [SEL] Input & Output Channel
DELAY SCALE: (Delay)
 . meters(), feet(), samples(), beats() timecode frames(
)
GANG: (pairing) (Delay)
 . (Gang) (Delay)
 가
ON/OFF: (Delay) . [ENTER]
 .
msec: (Delay time)
 . DELAY SCALE
 (Delay) . [ENTER]
 Input & Output Channel
MIX: Input Channel Delay() ,
 dry wet .
FB.GAIN: Input Channel Delay ,

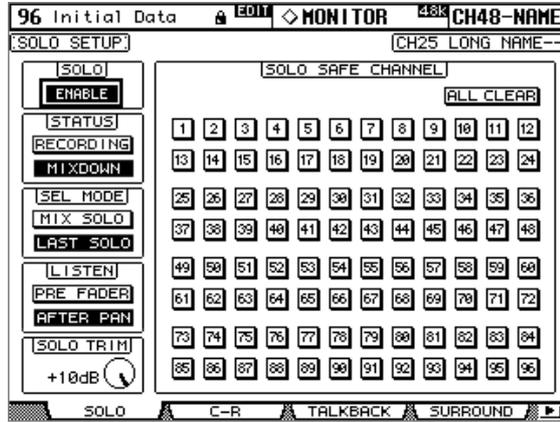
(Channel Soloing)

Input Channel, Bus Out, (Aux Send) (Matrix Send)
 Solo .
 1 **Input Channel solo LAYER (Input**
Channel Layer) , solo
 .
 Input Channel solo . Output Channel
 Input Channel , 가 .
 2 **[SOLO]** .
 [SOLO] indicator가 .
 SOLO
 Solo MONITOR SOLO 가 .
 SOLO [CLEAR] (Soloing)
 . SOLO CONTRAST control
 (Control Room Monitor)


(Solo Configuring)

Solo Setup() (Solo) . Auto SOLO
 Display , Solo 가 .
 234 "Auto SOLO Display" .

1 MONITOR [DISPLAY] Solo Setup



2 (Parameter wheel) INC/DEC

[ENTER]
SOLO: Solo on/ off .
STATUS: Solo (Recording) (Mixdown) .
 (Recording Solo) , (Soloed Input Channel) 가
 (Solo bus & output) .
 (Listen Parameter) AFTER PAN
 , Input Channel (Pre Fader) .
 (Mixdown Solo) , (Soloed Input Channel)
 가 (Stereo Out) (Stereo bus &
 output) . Input Channel (Solo Safe가 가
).(Stereo Out) (routing) Input Channel
 Solo .) Input Channel (soloing) .
SEL MODE: (Solo Select) (Mix Solo) (Last
 Solo) . (Mix Solo) ,
 . (Last Solo) ,
LISTEN: (Input Channel Solo signal) (Pre Fader)
 (After Pan) . (Mixdown Solo)
SOLO TRIM: (Solo signal) .
 (Mixdown Solo)
SOLO SAFE CHANNEL: (Mixdown Solo) , Input Channel
 Input Channel Input Channel
 .[SEL] , (Parameter wheel) SOLO SAFE
 CHANNEL .[ENTER] INC/DEC Input Channel
 Solo Safe . (Recording Solo)
 .ALL CLEAR [ENTER] Solo Safe .

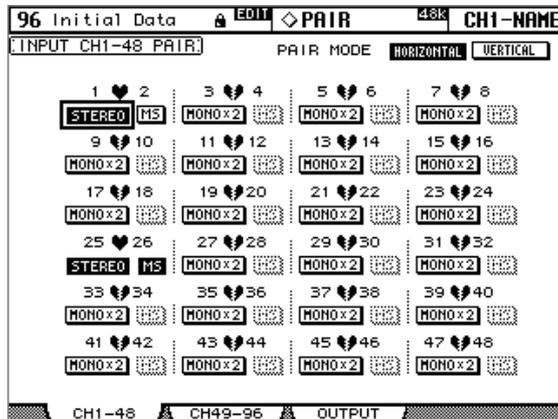
Channel Pairing

(Stereo) Input Channel, Bus Out, Aux Send
 . Input Channel (, 1-2, 3-4, 5-6) , (, 1-25, 2-26, 49-73, 50-74) . Bus Out (Aux Send)
 (pairing) 가 .

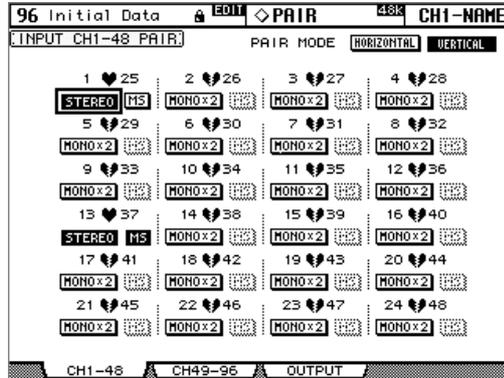
[SEL]

(Pairing)

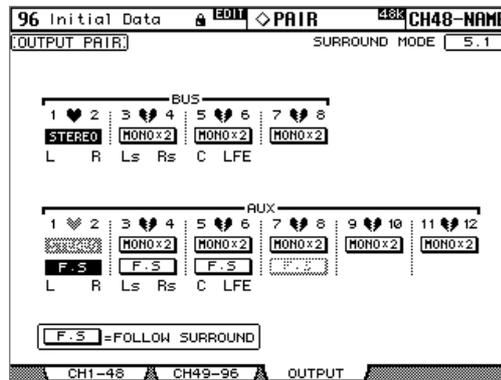
- (pairing) [SEL] .
- LAYER** , (pairing)
 - [SEL] [SEL] .
 [SEL] indicator가 , [SEL] .
 (Aux Send) AUX SELECT (pairing) .
 (pairing) , [SEL]
 [SEL] .
 (pairing) , (Fader), / (On/Off), / (Insert On/Off), / / (Aux/Mtrx On/Off), / (Aux/Mtrx Send) , / / (Aux/Mtrx Pre/Post), (Gate parameter), (Comp parameter), (EQ parameter), (Fader) , (Mute) , (EQ) , (Comp) , (Solo Safe), [AUTO] , (Fade) , (Recall Safe), / (Bus to Stereo On/Off), Bus to Stereo 가 .
 (pairing) , (Input Patch), (Insert Patch), (Output Patch), (Comp Position), (Phase), (Delay Time), (Delay Feedback), (Delay Mix), (Routing), (Pan), (Follow Pan), (Surround Pan), (Bus to Stereo Pan), / (Aux/Mtrx Send Pan), (Balance), (Attenuator), (Solo) , .
(Pair) **(Channel Pairing)**
 (Pair) (pairing) 가 .
 - DISPLAY ACCESS [PAIR]** **Pair()**
 96 Input Channel (Pair parameter)
 Input Channel 1-48 (Pair) .



- 2 (Pair) , PAIR MODE HORIZONTAL VERTICAL
 , [ENTER]
 (Pair) , (pairing) . Input Channel
 1-48 Input Channel 49-96 (pair)
 Input Channel 1-48 (pair) (Vertical)



Bus Out Aux Send (Pair Parameter) Output Pair



- 3 (Parameter wheel) (pair)
 , [ENTER] (pairing)
 LAYER() [SEL] (Input & Output Channel)

[ENTER] (pairing)

Input Channel (pairing) , MS (MS Decoding) MS
 . MS (MS Decoding) Input Channel
 (pair) MS

Output Pair (, , 3-1 5.1)
 Surround Mode() (77)
 (Stereo) (Surround)
 Bus Out (Aux Send) (pair)

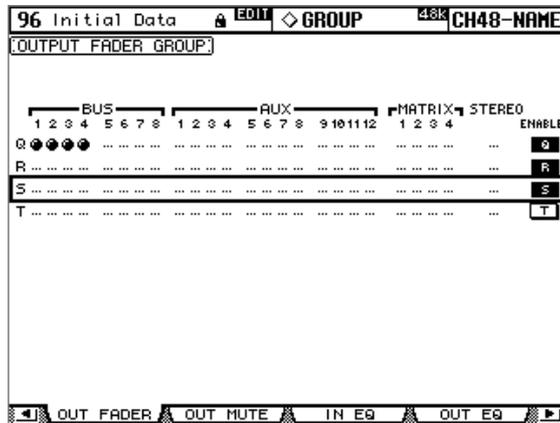
(Surround Mode)	Bus Out/ (Aux Send)					
	1	2	3	4	5	6
3-1	L	R	C	S		
5.1	L	R	Ls	Rs	C	LFE

(Stereo) (Surround) , Bus Out
 Input Channel (Aux Send) ,
 (Effect processor)
 Aux Send Pair() F.S
 (Aux Send) , Aux Send Pair(
) , Aux Pan() (94)

(Output Channel Fader)

Bus Out, (Aux Send), (Matrix Send), (Stereo Out)
 (Fader) , Output Channel
 (Output Channel Fader) Q, R, S, T

- 1 **DISPLAY ACCESS [GROUP]** Output Fader Group()

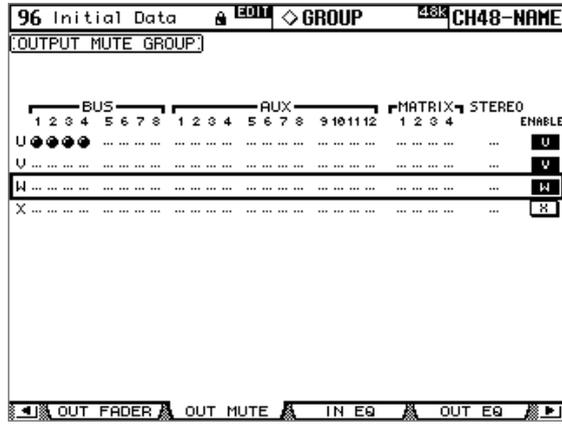


- 2 **LAYER [MASTER]**
 - 3 **Up/Down** Q-T
가
 - 4 **[SEL]** (Output Channel Fader) 가
- Output Channel 가 , [SEL] 가
ENABLE: 가
 (Fader) , (Fader)
 (Fader) (Fader)
 " (Fader Mode) "

(Output Channel Mute) (/)

Bus Out, Aux Send, Matrix Send, Stereo Out , Output Channel (Output Channel Mute) U, V, W, X .

1 DISPLAY ACCESS [GROUP] Output Mute Group()



2 LAYER [MASTER] .

3 Up/Down U-X . 가

4 [SEL] Output Channel 가

(Mute) Output Channel 가 , [SEL] indicator가 .

ENABLE: 가 .

(Mute)

(Output Parameter)

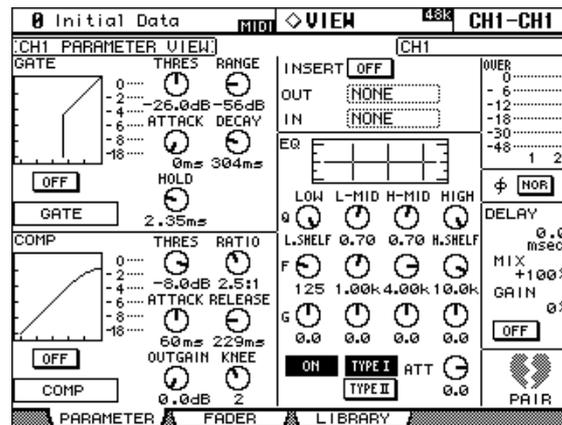
Input Channel, Bus Out, Aux Send, Matrix Send Stereo Out

Parameter View

- 1 **DISPLAY ACCESS [VIEW]** Parameter View()
- 2 **LAYER** , [SEL]
- 3 [ENTER] (Parameter wheel), INC/DEC ,

Input Channel

Input Channel Parameter View



GATE: Input Channel Gate On/Off(/), Thres hold(), Range(), Attack(), Decay(), Hold() (Gate parameter) .GR 가 (Gain) (Gate) (Gate) " (Input Channel Gating)" 69 "

COMP: Comp On/Off(/), Threshold(), Ratio(), Attack(), Release(), Gain(), Knee() .GR 가 (Gain) (Channel Compressing)" 113 "

INSERT: (Insert) "Insert" 111 "

EQ: (EQ) (Attenuator) Input Channel (EQ) " 107 "

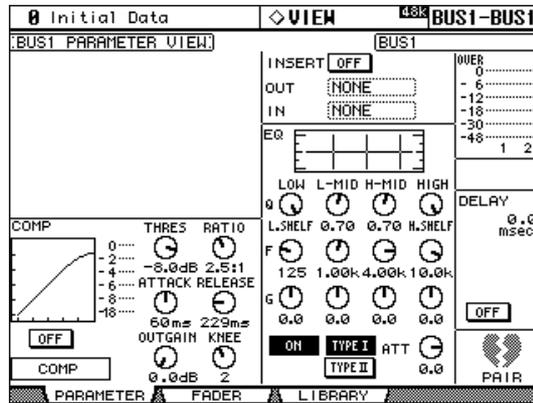
Meter: Input Channel (Signal Phase) " 68 "

DELAY: (Delay) (Channel Signal Delay)" 117 "

PAIR: (pairing) "Channel Pairing" 120

Output Channel

Bus Out, Aux Send, Matrix Send, Stereo Out Parameter View
 Input Channel Parameter View GATE() (Phase) , DELAY
 MIX FB GAIN (Matrix Send)
 (Stereo Out)
 [SEL]

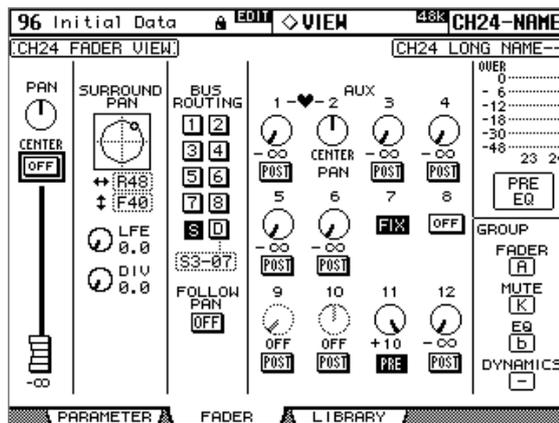


(Channel Fader)

Input Channel, Bus Out, Aux Send, Matrix Send Stereo Out
 Fader View
 1 DISPLAY ACCESS [VIEW] Fader View
 2 LAYER , [SEL]
 3 (Parameter wheel), INC/DEC ,
 [ENTER]
 (Pan & Balance) control , [ENTER]

Input Channel

Input Channel Fader View



PAN: Input Channel (Pan parameter) 76
 " (Input Channel Panning)"
 ON/OFF: Input Channel / 72
 " (Input Channel Mute)(/)"

Fader: Input Channel (Fader) 0.0 dB
 Fader knob가 (Fader) 가 (Input Channel Level) "

SURROUND PAN: Input Channel (Surround Pan parameter) 77
 " (Surr. Pan) "

BUS ROUTING: Input Channel Routing() Follow Pan()
) 75 " (Input Channel Routing)"
 (Direct Out Output Patch)
 (Direct Out Patch)"

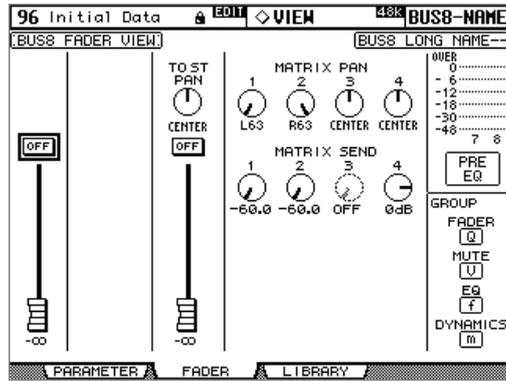
AUX: 65 " Input Channel (Aux Send) , / (On/Off) /
 (Pre/Post parameter) (Rotary control)
 [ENTER] (Aux Send) 88 "

Meter: (Metering) 가 Input Channel

GROUP: (Mute), (EQ) (Comp) Input Channel (Fader),

Bus Out

Bus Out Fader View



ON/OFF : Bus Out / (On/Off parameter)
 86 " (Bus Out Mute)(/)" "

Fader : Bus Out (Fader) 0.0 dB
 Fader knob가 (Fader) 가 (Fader)
 86 " (Bus Out) "

TO ST PAN, ON/OFF Fader: Bus Out (Stereo Out)
 (Bus Out to Stereo Out Pan), / (On/Off) (Fader parameter)
 (Fader) 0.0 dB Fader knob가 87 "

(Stereo Out) (Bus Out) "

MATRIX PAN: Bus Out (Matrix Send Pan control)
 99 " (Matrix Send Panning)"

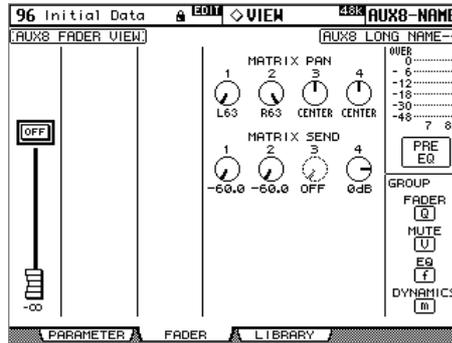
MATRIX SEND: Bus Out (Matrix Send) control
 control , [ENTER] (Matrix Send)
 97 " (Matrix Send) "

Meter: Bus Out (Metering)
 가

GROUP: Bus Out (Fader), (Mute),
 (EQ) (Comp)

(Aux Send)

Aux Send Fader View



ON/OFF : (Aux Send) / (On/Off parameter)
 95 " (Aux Send Master Mute) (/)"

Fader : Aux Send (Fader) 0.0 dB
 Fader knob가 (Fader) 가
 96 " (Aux Send)

MATRIX PAN: (Aux Send) (Matrix Send)
 control 99 "Matrix Send Panning"

MATRIX SEND: (Aux Send) (Matrix
 Send Pan control) . Rotary control , [ENTER()]
 (Matrix Send) 99 "Matrix
 Send Panning"

Meter: (Aux Send)
 (Metering) 가

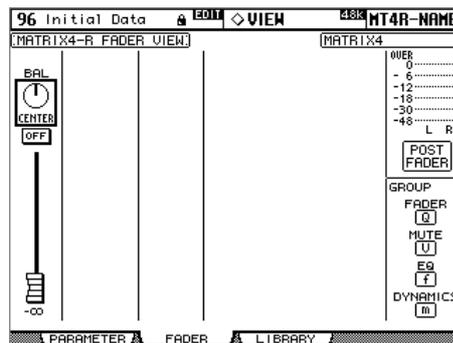
GROUP: (Aux Send)가 (Fader),
 (Mute), (EQ) (Comp)

(Matrix Send)

Matrix Send Fader View

(Matrix Send)

[SEL] 1-24



BAL: (Matrix Send) (Balance parameter)
 101 " (Matrix Send)

ON/OFF: (Matrix Send) / (On/Off parameter)
 parameter) 98 " (Matrix Send)
 Mute)(/)"

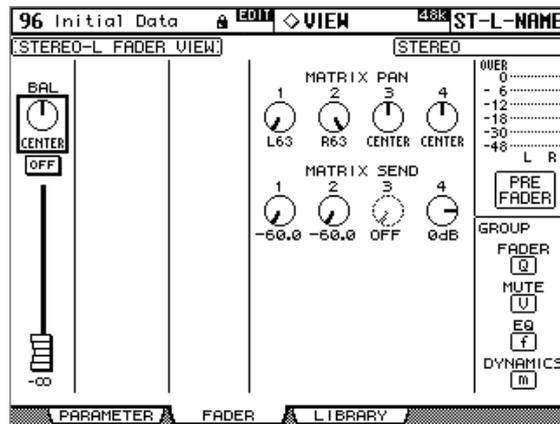
Fader: (Matrix Send) .
 (Fader) 0.0 dB (Fader knob)가 .
 (Fader) 가 (Fader) . 97
 "Matrix Send "

Meter: (Matrix Send)
 가

GROUP: (Matrix Send)
 (Fader), (Mute), (EQ) (Comp)

(Stereo Out)

(Stereo Out) (Stereo Out) Fader View .
 (Stereo Out) . STEREO [SEL]



BAL: (Stereo Out) (Balance parameter) .
 84 " (Stereo Out Balancing)"

ON/OFF: (Stereo Out) / (On/Off parameter) .
 83 " (Stereo Out Mute)(/)" .

Fader: (Stereo Out) (Fader) 0.0 dB
 Fader knob가 (fader) 가
 83 " (Stereo Out) "

MATRIX PAN: (Stereo Out) (Matrix Send Pan) control
 (Stereo Out)
 99 " (Matrix Send Panning)"

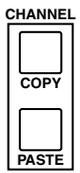
MATRIX SEND: (Stereo Out) (Matrix Send) .
 (Stereo Out) . Rotary
 control , [ENTER] (Matrix Send)
 97 " (Matrix Send) "

Meter: (Stereo Out) (Metering)
 가

GROUP: (Stereo Out) (Fader),
 (Mute), (EQ) (Comp)

(Channel Setting Copying)

Input Channel, Bus Out, Aux Send, Matrix Send Stereo
 Out (Recall)
 Stereo Out , copy paste가 가 . Matrix Send
 Preferences 2 Channel Copy Parameter
 236 "Channel Copy Parameter"



Scene

- 1 LAYER [SEL] .
- 2 CHANNEL [COPY] .
 (Copy buffer) .
 (pairing) , .
- 3 LAYER [SEL] .
- 4 CHANNEL [PASTE] .
 , (Copy buffer)

Scene Scene

- 1 LAYER [SEL] .
- 2 CHANNEL [COPY] .
- 3 SCENE MEMORY Up [▲] Down [▼] Scene .
 SCENE MEMORY Scene 가 .
- 4 LAYER [SEL] .
- 5 CHANNEL [PASTE] .

Scene Scene

- 1 SCENE MEMORY Up [▲] Down [▼] .
 SCENE MEMORY 가 .
- 2 LAYER [SEL] .
- 3 CHANNEL [COPY] .
- 4 SCENE MEMORY Up [▲] Down [▼] Scene .
 가 SCENE MEMORY .
- 5 LAYER [SEL] .
- 6 CHANNEL [PASTE] .

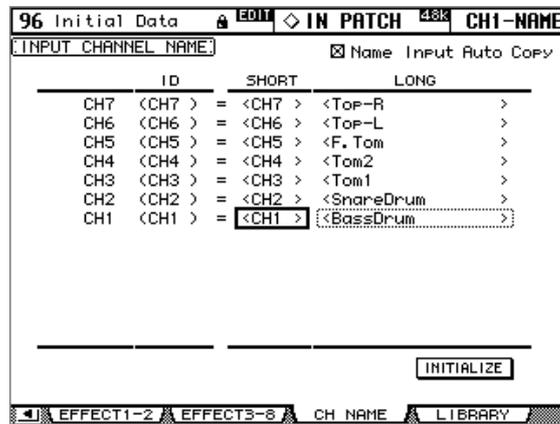
- 1 **Scene** **Scene**
SCENE MEMORY Up [▲] Down [▼] **Scene**
 SCENE MEMORY Scene 가
- 2 **LAYER [SEL]**
- 3 **CHANNEL [COPY]**
- 4 **Scene** **Scene**
SCENE MEMORY Up [▲] Down [▼] **Scene**
 SCENE MEMORY Scene 가
- 5 **LAYER [SEL]**
- 6 **CHANNEL [PASTE]**

Input Channel, Bus Out, Aux Send, Matrix Send, Stereo Out

Input Channel 256 , Output Channel 257

Input Channel

- 1 **DISPLAY ACCESS [INPUT PATCH]** **Input Channel Name**

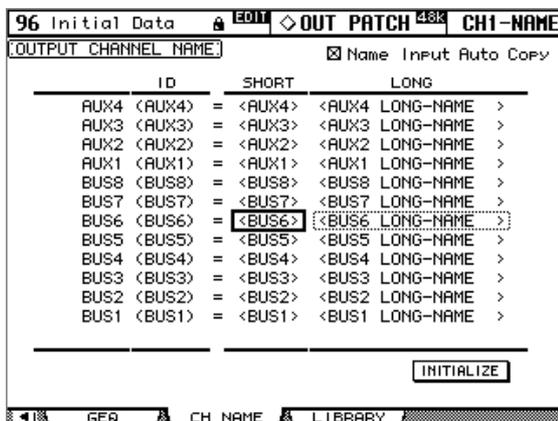


- 2 (Parameter wheel), INC/DEC **LAYER [SEL]**
Input Channel
 (Vertical Input Channel pairing) 가 , Input Channel
 CH1, CH25, CH2, CH26
- 3 **Input Channel** , [ENTER]
- Title Edit() , Input Channel OK
 38 " (Title Edit Window)"
- INITIALIZE Input Channel

Output Channel

1 DISPLAY ACCESS [OUTPUT PATCH]
)

Output Channel Name(



2 (Parameter wheel), INC/DEC [SEL]
Output Channel .

3 Output Channel , [ENTER]

Title Edit() , (Output Channel name)
OK . 38 " (Title Edit Window)"

INITIALIZE Output Channel

13

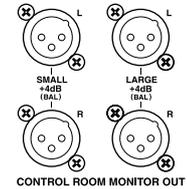
(Monitoring)

(Talkback)

(Control Room Monitoring)

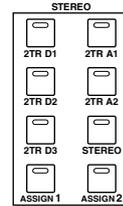
DM2000

control . LARGE CONTROL ROOM MONITOR OUT
 +4 dB (BAL) XLR 3-32 connector
 . SMALL CONTROL ROOM MONITOR OUT +4 dB
 (BAL) XLR 3-32 connector (nearfield)



CONTROL ROOM STEREO

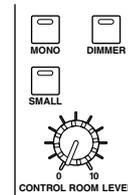
[2TR D1]: 2TR IN DIGITAL AES/EBU 1
 [2TR D2]: 2TR IN DIGITAL AES/EBU 2
 [2TR D3]: 2TR IN DIGITAL COAXIAL 3
 [2TR A1]: 2TR IN ANALOG 1
 [2TR A2]: 2TR IN ANALOG 2



[STEREO]: (Stereo Out)
 [ASSIGN 1]: (Control Room Setup)
 (Output Channel) 133 " (Control Room Setup)"
 [ASSIGN 2]: (Control Room Setup)
 (Output Channel) 133 " (Control Room Setup)"

CONTROL ROOM LEVEL control

. CONTROL ROOM [SM ALL] , LARGE
 CONTROL ROOM MONITOR OUT SMALL CONTROL ROOM
 MONITOR OUT , LARGE SMALL
 가 SMALL . CONTROL ROOM[MONO]



[DIMMER] Dimmer ,
 Control Room Setup (133)
 . (Slate), (Talkback) Oscillator
 , Dimmer .

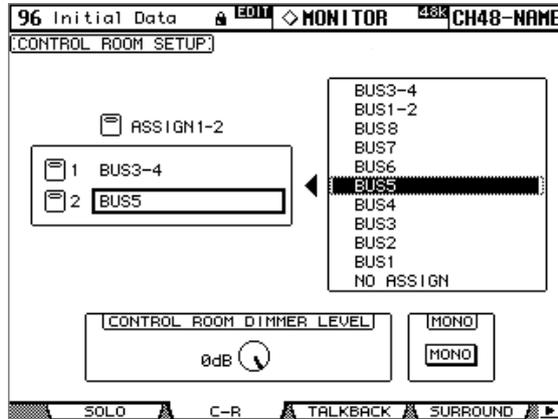
SMALL TRIM control SMALL CONTROL ROOM MONITOR
 OUT . , LARGE CONTROL ROOM
 MONITOR OUT

PHONES , PHONES LEVEL
 control .
 PHONES
 PHONES LEVEL

(Control Room Setup)

Control Room Setup

- MONITOR [DISPLAY]** Control Room Setup()

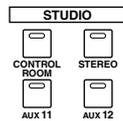
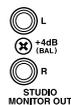


- ASSIGN**
(Parameter wheel) Output Channel
Bus Out, Aux Send Matrix Send [ASSIGN 1] [ASSIGN 2]
- [ENTER]** Output Channel
Output Channel

CONTROL ROOM DIMMER LEVEL: Dimmer (Control Room Monitor) (Surround Monitor) (Control Room Monitor)
(attenuation) (Parameter wheel) INC/DEC
MONO: CONTROL ROOM [MONO] (Control Room Monitor)

(Studio Monitoring)

DM2000 control STUDIO MONITOR OUT +4 dB (BAL) 1/4 TRS



(Studio Monitor) STUDIO
[CONTROL ROOM]: (Control Room Monitor)
[STEREO]: (Stereo Out)
[AUX 11]: (Aux Send) 11
[AUX 12]: (Aux Send) 12



STUDIO LEVEL control (Studio Monitor)

(Surround Monitoring)

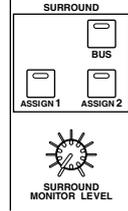
DM2000 (pink noise generator),
(Base Management), (down mixing)

Surround() (Stereo)
(Surround) (78)

(Surround Monitor) SURROUND
[BUS] (Bus Out)

[ASSIGN 1] [ASSIGN 2] Surround Monitor()
(Slot Input) (137)

(Surround Monitor Channel)
) [ASSIGN 1] [ASSIGN 2] , 6



SURROUND MONITOR LEVEL control

(Surround Monitor Channel) (Attenuator)

(Delay parameter)

Ls Rs , DM2000 (Attenuator)

(Delay parameter) Ls2 Rs2

135 "

(Surround Monitor Configuring)"

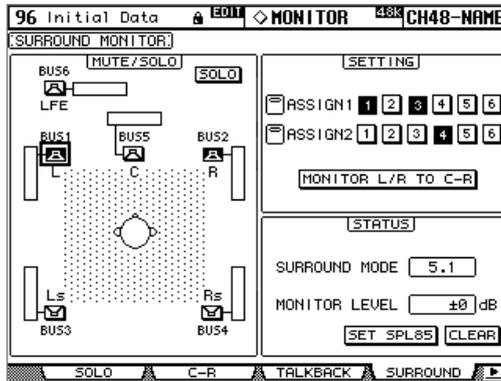
(Slot Output) (Omni Output)

63 " (Output Patch)"

1 32 (Surround Monitor) 147

(Surround Monitor) ")
Surround Monitor()

1 MONITOR [DISPLAY] Surround Monitor()



2 (Parameter wheel) INC/DEC

, [ENTER]

(Surround Monitor)

(Bus Out)

MUTE/SOLO: (Surround Channel) Solo

Bus Out() [SEL]
[ENTER]

. SOLO가
(Surround Channel)

SETTING: SURROUND [ASSIGN 1] [ASSIGN 2]
6 ASSIGN

가 . Surround Monitor Patch()
(Slot Input) (Surround Monitor Channel)
(137)

MONITOR L/R to C-R
(Control Room Monitor)

STATUS: SURROUND MODE Surround Mode() (78)
MONITOR LEVEL SURROUND

MONITOR LEVEL control

85 dB SPL

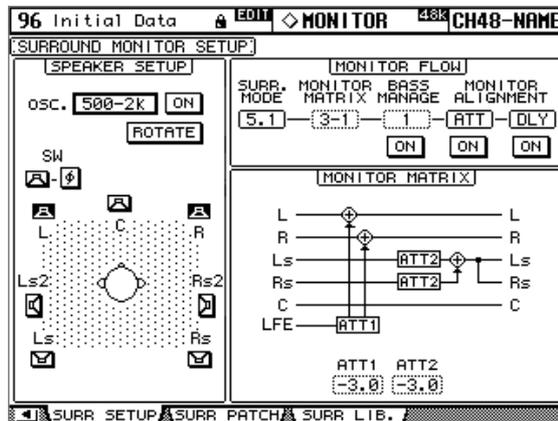
Oscillator(135) (pink noise) , 85 dB
SPL SURROUND MONITOR LEVELcontrol

control , SET SPL85(SPL85) MONITOR
LEVEL 85 dB SPL . SET SPL85(SPL85)

(Surround Monitor Configuring)

(Speaker setup), (monitor matrix), (Bass Manage
ment), (monitor alignment) Surround
Monitor Setup()

1 MONITOR [DISPLAY] Surround Monitor Setup



2 (Parameter wheel) INC/DEC

, [ENTER]

SPEAKER SETUP:

(parameter) . OSC(Oscillator) , PINK NOISE, 500-2K (500 Hz ~
2 kHz BPF) , 1K (1 kHz) 50 Hz (50 Hz)
. ON/OFF Oscillator . Oscillator가 ,
-20 dB

Oscillator

Bus Out [SEL] . LFE SW (SW
Phase) . ROTATE() , Oscillator 가

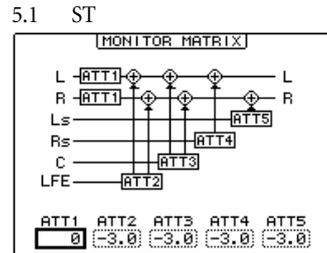
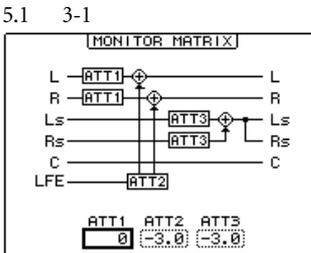
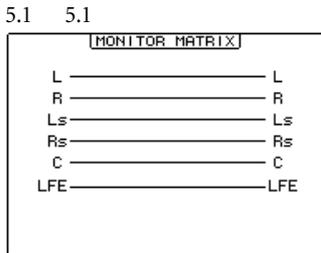
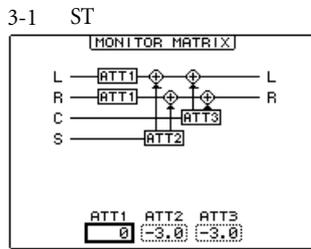
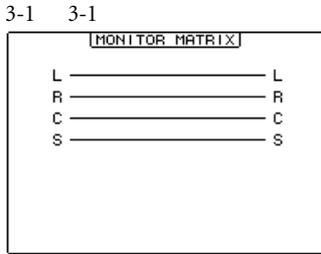
(3 , 2).

SURR. MODE: Surround Mode() (78)

MONITOR MATRIX:

(Surround Monitor Matrix)

.5.1 ,3-1 ST ,5.1,3-1 ST .3-1
 (Surround) ,3-1 ST .
 ,ATT parameter() 가



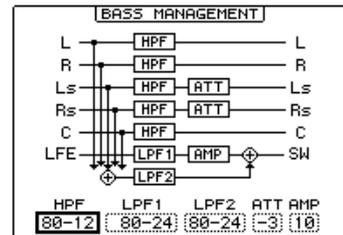
BASS MANAGE: 5.1 5.1

5

. ON/OFF

가 THRU

5.1 LFE



(Base Management parameter)

(Parameter)	(Range)
HPF	THRU, 80-12, 80-12L, 80-24, 80-24L
LPF1	THRU, 80-24, 80-24L, 120-42
LPF2	THRU, 80-24, 80-24L, MUTE
ATT	0 ~ -12 dB (1 dB)
AMP	0 ~ +12 dB (1 dB)

"80-12" 80 Hz -12 dB/ "L"
 (Linkwitz) (Butterworth)

(Base Management) ("w/BS"

with Bass Management) SMALL 가

(Preset)		(Parameter)				
		HPF	LPF1	LPF2	ATT	AMP
1	DVD Mix w/BS	80-12	80-24	80-24	0	10
2	DVD Author w/BS	80-12	120-42	80-24	0	10
3	Film Mix w/BS	80-12	80-24	80-24	-3	10
4	Film Author w/BS	80-12	120-42	80-24	-3	10
5	Bypass	THRU	THRU	MUTE	0	0

MONITOR ALIGNMENT ATT & DLY ON/OFF:

(Attenuator)

(Delay parameter)

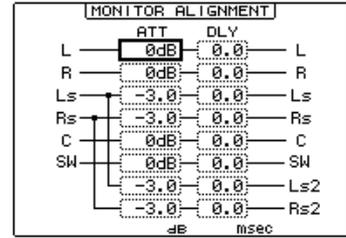
MONITOR ALIGNMENT

(Attenuator)

(Delay parameter)

(Surround Channel)

(Attenuator)



(Attenuator parameter) -12 dB +12 dB

0.1 dB

(Delay parameter) 0.0 30.0msec 0.02msec

(Surround Channel)

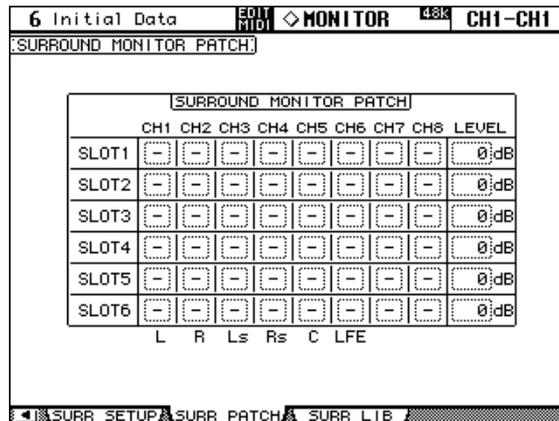
(Slot Input Patch)

(Slot Input)

(Surround Monitor Channel)

1 MONITOR [DISPLAY]

Surround Monitor Patch



2

(Parameter wheel) INC/DEC

, [ENTER]

SLOT/CH:

6

1-8

1-8

LEVEL:

(Talkback)

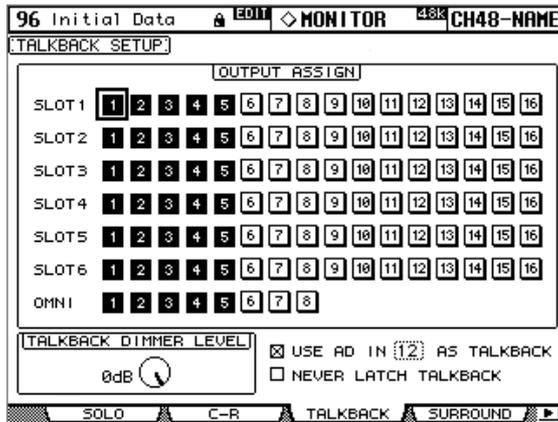
(Slate)

(Talkback) (Slot) (Output) Talkback Setup (Talkback mic signal)

[TALKBACK] 300ms (Talkback) Latch (Unlatch) [TALKBACK] indicator가 (Slate) (Matrix Send) (Stereo Out) (Bus Out), (Slate) 가 (Slate) (Latch) (Slate) (Unlatch) [SLATE] indicator가

(Talkback Setup)

- 1 MONITOR [DISPLAY] Talkback Setup



- 2 (Parameter wheel) INC/DEC

[ENTER]

OUTPUT ASSIGN: (Talkback mic signal) (Slot) (Omni Output)

TALKBACK DIMMER LEVEL: (Talkback) (Studio Monitor) (Talkback) (Attenuating)

USE AD IN x AS TALKBACK: AD (Talkback mic signal source) AD (AD Input) Talkback mic TALKBACK LEVEL

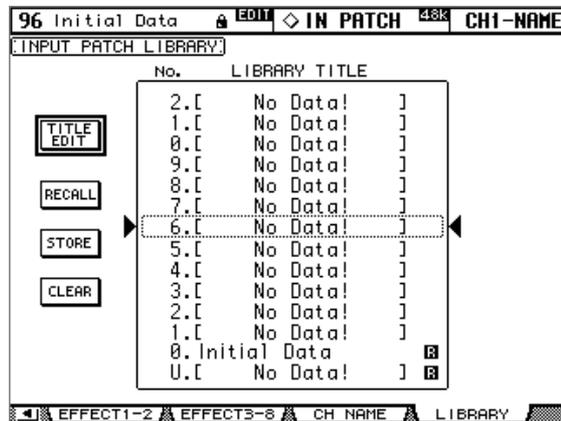
NEVER LATCH TALKBACK: (Talkback) (latching)

14 (Library)

DM2000 (Automix), (Effect), (Input Patch), (Output Patch), GEQ, (Bus to Stereo), (Gate), (Compressor), EQ, (Surround Monitor) 11 가 .
 MIDI Bulk Dump MIDI (Data filer)
 MIDI (187) .
 (231) .

1

Input Patch Library



2

(Parameter wheel) INC/DEC

가

3

TITLE EDIT: [ENTER]
 . Title Edit() OK
 38 " (Title Edit Window)"

RECALL: [ENTER]
 . Recall Confirmation , Recall

STORE: [ENTER()]
 . Title Edit , OK 38
 "Title Edit Window" . 235 Store Confirmation
 Title Edit Window

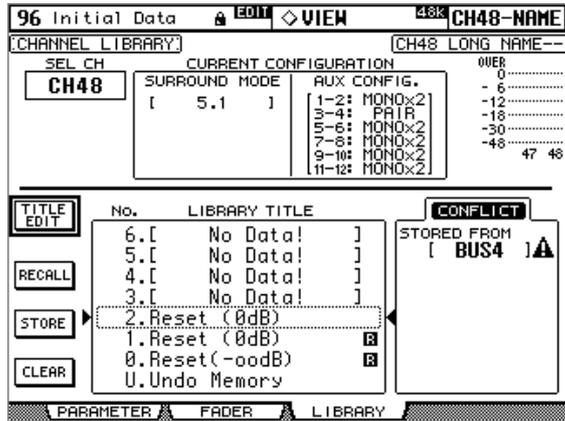
CLEAR: [ENTER]
 . (Read-only) (Preset Memory) "R"
 . Store, Clear Title Edit 가
 "No Data()!" 0

U Recall
 (Read-only) , U
 , U
 U

(Channel)

Input Channel, Bus Out, Aux Send, Matrix Send Stereo Out (Channel)
 , 2 (Preset Memory)
 127 (User Memory)

1 DISPLAY ACCESS [VIEW] Channel Library()



2 LAYER , [SEL]

Recall ,
 , Input Channel
 Input Channel , (Aux Send)
 , "CONFLICT" 가

STORED FROM
 (Preset Memory) 0 "Reset()(- dB)"
 (parameter) , - dB
 (Preset Memory) 1 "Reset()(0dB)" (parameter)
 0 dB (,)

SEL CH:
CURRENT CONFIGURATION: Input Channel ,
 (Surround) (Aux configuration) 가
 : Input Channel

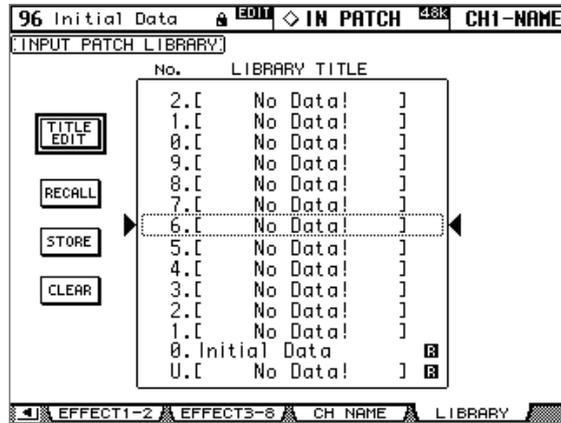
STORED FROM:
 Input Channel , (Pan) (Aux pairing)

Store, Recall, Title Edit, Clear 139 "

(Input Patch)

1 (Preset Memory) 32 (User Memory)
 (Input Patch) (Input Patch)
 (Input Patch) 61

1 DISPLAY ACCESS [INPUT PATCH] Input Patch Library(
)



(Input Patch)

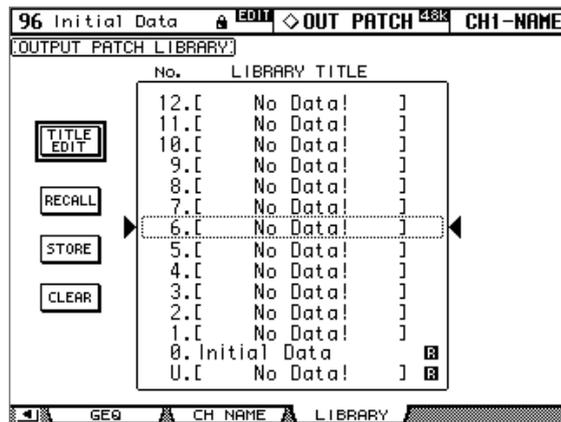
Store, Recall, Title Edit, Clear

139

(Output Patch)

1 (Preset Memory) 32 (User Memory)
 (Output Patch) (Output Patch)
 (Output Patch) 63

1 DISPLAY ACCESS [OUTPUT PATCH] Output Patch Library(
)



(Output Patch)

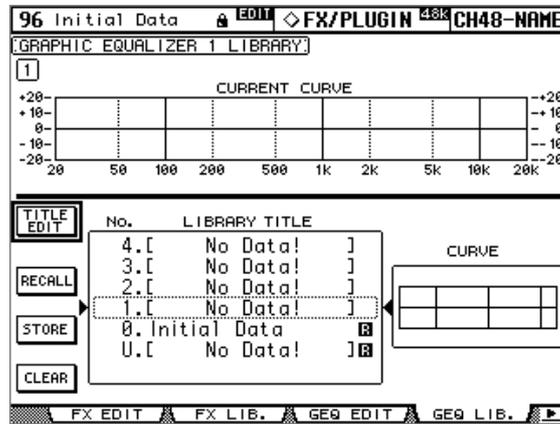
Store, Recall, Title Edit, Clear

139

GEQ

1 GEQ (Preset Memory) 128 GEQ (User Memory) 155

1 EFFECTS/PLUG-INS [DISPLAY] Graphic Equalizer Library()



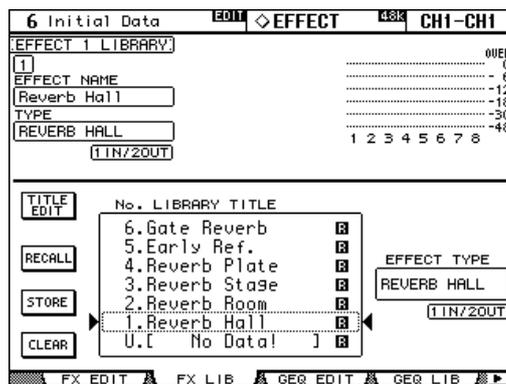
2 EFFECTS/PLUG-INS [GRAPHIC EQUALIZERS] [1-6] GEQ , EFFECTS/PLUG-INS

CURRENT CURVE: GEQ
 CURVE: GEQ
 Store, Recall, Title Edit, Clear 139

(Effect)

52 (Effect) (Preset Memory) 76 (Effect) (User Memory)

1 EFFECTS/PLUG-INS [DISPLAY] Effect Library()



2 EFFECTS/PLUG-INS [INTERNAL EFFECTS] [1-8] (Effect processor) , EFFECTS/PLUG-INS

(Effect processor)

EFFECT NAME: (Effect)

TYPE: Effect Effect I/O

: Effect processor Output Effect

processor 1 2 8 Output , Effect processor 3 ~ 8 2

Output 가

EFFECT TYPE: Effect I/O

Store, Recall, Title Edit, Clear 139 "

"

Bus to Stereo

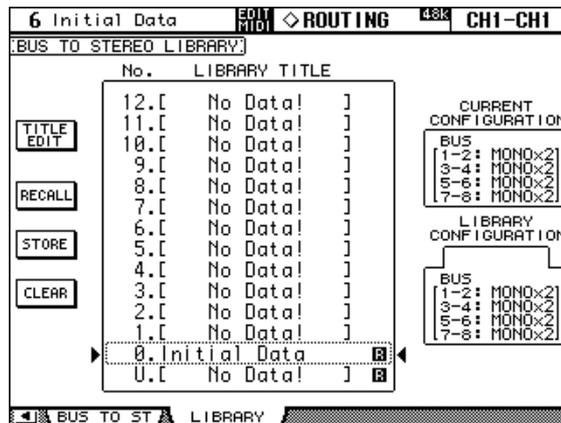
1 (Preset Memory) 32 (User Memory)

(Bus to Stereo) (Bus to Stereo)

(Bus to Stereo) (Routing)

87

1 ROUTING [DISPLAY] Bus to Stereo



Bus Out to Stereo Out

CURRENT CONFIGURATION: (Bus Out pairing) 가

LIBRARY CONFIGURATION: (Bus Out pairing) 가

(Bus Out pairing) 가 , LIBRARY CONFIGURATION

"CONFLICT" 가

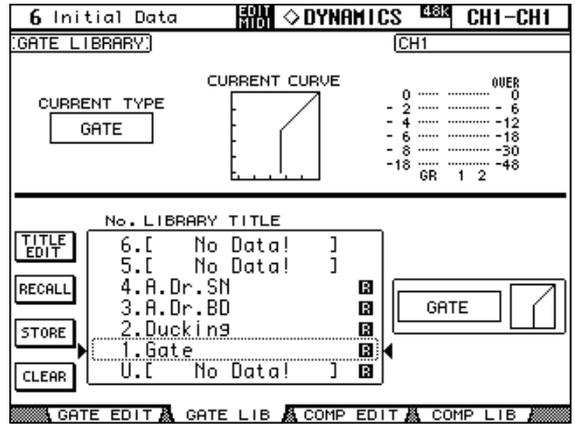
Store, Recall, Title Edit, Clear 139 "

"

(Gate)

4 (Preset Memory) 124 (User Memory)
 Gate Input Channel Gate . Input Channel
 Gate 69 .

1 DYNAMICS [DISPLAY] Gate Library()



2 LAYER (Input Channel Layer) , [SEL]

Input Channel

Input Channel Gate
 . Recall , (Gate) Input
 Channel .
CURRENT TYPE: (Gate)
CURRENT CURVE: (Gate)
GR : (Gate) (Gain) (Pair) Vertical(
) ,
 ((Gate) (Ducking))

Store, Recall, Title Edit, Clear 139 "

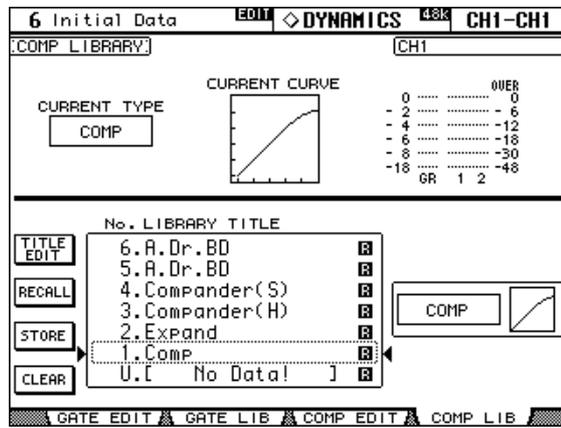
(Comp)

36 (Preset Memory) 92 (User Memory)

(Comp) (Comp)

(Comp) 113

1 DYNAMICS [DISPLAY] Comp Library()



2 LAYER , [SEL]

(Comp)

. Recall , (Comp)

CURRENT TYPE: (Comp)

CURRENT CURVE: (Comp)

GR : (Comp) (Gain)

(Pair)

Vertical()

(Comp), (Expander),

(Comp Soft), (Comp Hard)

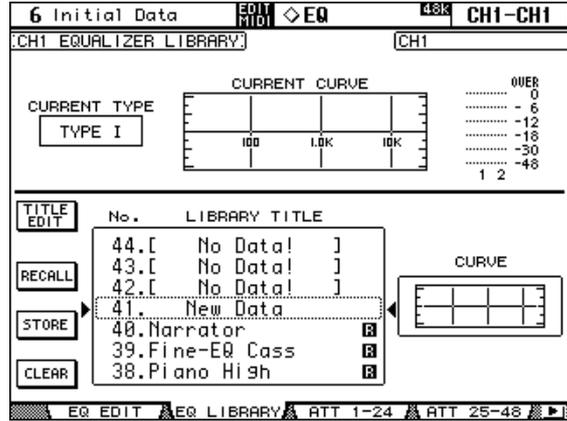
Store, Recall, Title Edit, Clear 139 "

(EQ)

Input Channel, Bus Out, Aux Send, Matrix Send Stereo Out EQ EQ
 , 40 (Preset Memory) 160
 (User Memory) (Equalizing)

107

1 EQUALIZER [DISPLAY] EQ Library()



2 LAYER , [SEL]

(EQ)

. Recall , (EQ)

CURRENT TYPE: (EQ) (I II)

CURRENT CURVE: (EQ)

Input Channel

CURVE: (EQ)

Store, Recall, Title Edit, Clear

139 "

(Automix)

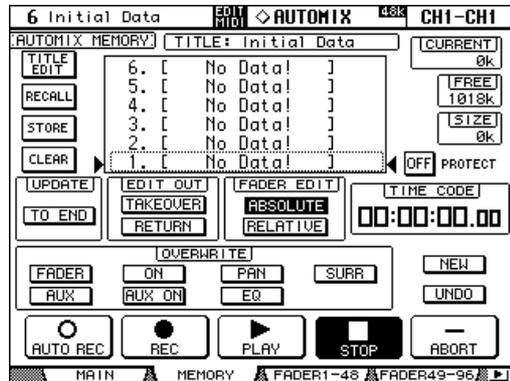
16

(Automix)

164

1 AUTOMIX [DISPLAY]

Automix Memory()



(Automix)가

TITLE: (Automix)
 CURRENT: (Automix)
 FREE: (Automix)
 SIZE: (Automix)
 PROTECT: (Automix)

[ENTER]

(write-protected)

(write-protected)

(Automix)

Store, Recall, Title Edit, Clear

139

(Surround Monitor)

1 (Preset Memory) 32
 (Surround Monitor)

(User Memory)

(Surround

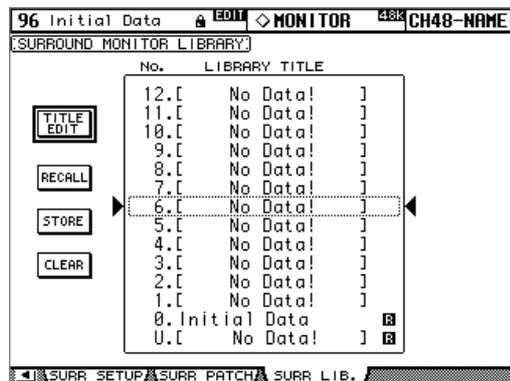
Monitor)

(Surround Monitoring)

134

1 MONITOR [DISPLAY]

Surround Monitor Library



(Surround Monitor)

Store, Recall, Title Edit, Clear

139

15 (Internal Effect), Plug-In, GEQ

(Effect)

DM2000 8 (Multi-effect processor)가 ,
 (Reverb), (Delay), (Modulation-based effect),
 (Combination effect),
 (Multichannel effect) (Effect)
 (Effect processor) 3-8 가
 1 2 (Multichannel surround effect)
 , 8 가 Input & Output 가 Processor
 Input & Output (Effect processor) Input & Output
 (Effect) Effects Edit()
 (Effect processor) Input & Output
 Meter() 103 "
 (Metering)"
 52 (Preset Memory) 76 (User Memory)
 (Effect) (Effect)
 142 " (Effect) "

(Effect Processor Patch)

(Effect processor input) (Aux Send),
 (Input & Output Channel Insert Out) (Effect)
 62 " (Effect Input
 Patch)"
 (Effect processor output) (Input Channel),
 (Input & Output Channel Insert In) (Effect processor)
 63 " (Output Patch)"

(Effect)

(Effect) 264

(Reverb)

1	Reverb Hall	REVERB HALL	(Gate) (Reverberation simulation)
2	Reverb Room	REVERB ROOM	(Gate) (Reverberation simulation)
3	Reverb Stage	REVERB STAGE	(Gate) (Reverb)
4	Reverb Plate	REVERB PLATE	(Gate) (Plate reverb simulation)
5	Early Ref.	EARLY REF.	(Early reflection)
6	Gate Reverb	GATE REVERB	(Gate) (Early reflection)
7	Reverse Gate	REVERSE GATE	(Gate) (Reverse early reflection)

(Delay)

8	Mono Delay	MONO DELAY	(Mono delay)
9	Stereo Delay	STEREO DELAY	(Stereo delay)
10	Mod. delay	MOD. DELAY	(Modulation repeat delay)
11	Delay LCR	DELAY LCR	3 (, ,) (Delay)
12	Echo	ECHO	(Feedback crossed stereo Delay)

(Modulation-based Effect)

13	Chorus	CHORUS	(Chorus)
14	Flange	FLANGE	(Flanger)
15	Symphonic	SYMPHONIC	Yamaha (Effect)
16	Phaser	PHASER	16 (Stereo phase shifter)
17	Auto Pan		(Auto-panner)
18	Tremolo	TREMOLO	(Tremolo)
19	HQ. Pitch	HQ. PITCH	(Mono pitch shifter)
20	Dual Pitch	DUAL PITCH	(Stereo pitch shifter)
21	Rotary	ROTARY	(Rotary speaker simulation)
22	Ring Mod.	RING MOD.	(Ring modulator)
23	Mod. Filter	MOD. FILTER	(Filter)

(Guitar Effect)

24	Distortion	DISTORTION	(Distortion)
25	Amp Simulate	AMP SIMULATE	(Guitar amp simulation)

(Dynamic Effect)

26	Dyna. Filter	DYNA. FILTER	(Dynamically controlled filter)
27	Dyna. Flange	DYNA. FLANGE	(Dynamically controlled flanger)
28	Dyna. Phaser	DYNA. PHASER	(Dynamically controlled phase shifter)

(Combination Effect)

29	Rev+Chorus	REV+CHORUS	(Reverb) (Chorus)
30	Rev->Chorus	REV->CHORUS	(Reverb) (Chorus)
31	Rev+Flange	REV+FLANGE	(Reverb) (Flanger)
32	Rev->Flange	REV->FLANGE	(Reverb) (Flanger)
33	Rev+Sympho.	REV+SYMPHO.	(Reverb) (Symponic)
34	REV->SYMPHO.	REV->SYMPHO.	(Reverb) (Symponic)
35	Rev->Pan()	REV->PAN	(Reverb) (Auto-pan)
36	Delay+ER.	DELAY+ER.	(Delay) (Early reflection)
37	Delay->ER.	DELAY->ER.	(Delay) (Early reflection)
38	Delay+Rev	DELAY+REV	(Delay) (Reverb)
39	Delay->Rev()	DELAY->REV	(Delay) (Reverb)
40	Dist->Delay	DIST->DELAY	(Distortion) (Delay)

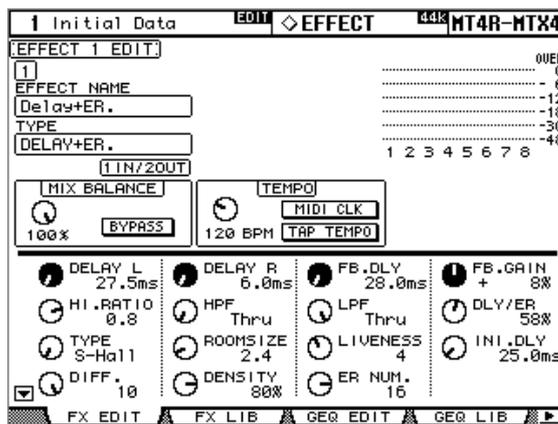
41	Multi. Filter	MULTI. FILTER	3-band parallel (24 dB/)
42	Freeze	FREEZE	simple Sampler
43	Stereo Reverb	ST REVERB	(Stereo reverb)
44 ¹	Reverb 5. 1	REVERB 5. 1 ²	6 5. 1 (Reverb)
45 ¹	Octa Reverb	OCTA REVERB ²	8 7. 1 (Reverb)
46 ¹	Auto Pan 5. 1	AUTO PAN 5. 1	6 5. 1 (Auto-pan)
47 ¹	Chorus 5. 1	CHORUS 5. 1	6 5. 1 (Chorus)
48 ¹	Flange 5. 1	FLANGE 5. 1	6 5. 1 (Flanger)
49 ¹	Sympho. 5. 1	SYMPHO. 5. 1	6 5. 1 (Symphonic effect)
50	M. Band Dyna.	M. BAND DYNA.	(Dynamic processor)
51 ¹	Comp 5. 1	COMP 5. 1 ²	5. 1 (Compressor)
52 ¹	Compad 5. 1	COMPAND 5. 1 ²	5. 1 (Compander)

1. 1 2
 2. 4 DSP
 3. 1 (Reverb) 5. 1 2-5
 1 2 (Reverb) 5. 1
 3-8

(Effect Edit)

(Internal Effect Processor)

- 1 EFFECTS/PLUG INS [INTERNAL EFFECTS()]
- 2 EFFECTS/PLUG INS [1-8] (Effect processor)
- 3 EFFECTS/PLUG INS [DISPLAY] Effects Library() (Effect)
- 4 EFFECTS/PLUG INS [DISPLAY] Effects Edit



5 , Parameter wheel, INC/DEC ,

[ENTER]
EFFECT NAME: (Effect) .

TYPE: (Effect) (Effect) . I/O

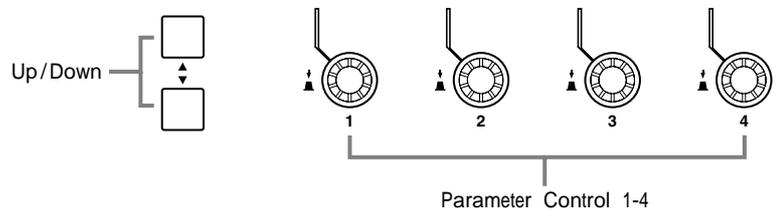
MIX BALANCE: dry wet .0% ,
 dry .100% , wet .

BYPASS: (Effect Processor)

TEMPO: (parameter) (Delay) 가 (Effect)
 가 (Modulation-based Effect)
 (Modulation) (Delay)
 (Note parameter) , BPM control TAP TEMPO

MIDI Rx 가 . MIDI CLK 가 ,
 182 "MIDI I/O" MIDI Clock 가 .

Meters: Effect processor 1 2
 가 8 , 3-8 2 .
 control 1-4 (Effect parameter)
 . Parameter Up/Down(/)
 parameter가 . 16
 , 가 가 , Up down 가



Y56K ,
 EFFECTS/PLUG-INS [CHANNEL INSERTS] , EFFECTS/PLUG-INS [1-8]
 가 , Effects Plug-In edit 가 .

Y56K , [PLUG-INS] . (Internal
 Effect processor) , [INTERNAL EFFECTS]
 (Effect) ,
 가 .

Plug-In

Plug-In Wave Plug-In User Defined Plug-In, 가
 (Wave Plug-In) DM2000 YGDAI (4-6 가) Y56K
 . Yamaha . User Defined Plug-In
 (External effect processor) MIDI MIDI Control
 Change Parameter Change 가가 32
 control . 4 control
 Plug-in parameter (Plug-in parameter)
 (automation) Scene .
 Y56K , YGDAI 4-6 4-6 . Y56K
 4 , 4
 (Slot Input) (Output) 가 , DM2000 Y56K
 (Effect chain) (Slot output)(,
 (Effect chain input)) (Bus Out), (Aux Send), (Matrix
 Send), (Stereo Out) (Input & Output Channel
 Insert Out) (Slot Input)(,
 (Effect chain output)) (Input Channel) (Input & Output
 Channel Insert In) 61 "
 (Input & Output Patch)" .

Plug-In

Plug-In
 Y56K , DM2000

- 1 EFFECTS/PULG INS [PLUG-INS]
- 2 EFFECTS/PLUG INS [DISPLAY]

Plug-In Setup

TARGET	TITLE	PORT
PLUG-IN1	NO ASSIGN	NO ASSIGN
PLUG-IN2	NO ASSIGN	NO ASSIGN
PLUG-IN3	NO ASSIGN	NO ASSIGN
PLUG-IN4	NO ASSIGN	NO ASSIGN
PLUG-IN5	NO ASSIGN	NO ASSIGN
PLUG-IN6	NO ASSIGN	NO ASSIGN
PLUG-IN7	NO ASSIGN	NO ASSIGN
PLUG-IN8	NO ASSIGN	NO ASSIGN

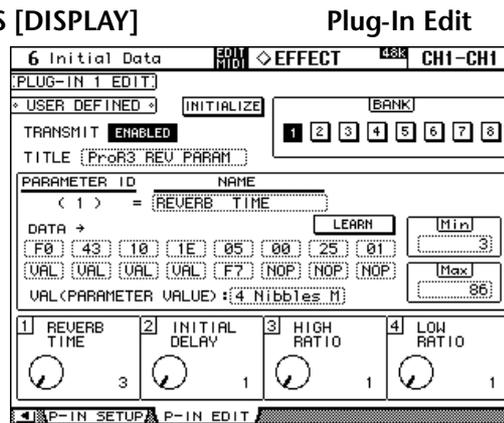
- 3 ,Parameter wheel INC/DEC ,[ENTER]

TARGET: 8 Plug-In . EFFECTS PLUG- INS [1-8]
 Plug-In , Plug-In Edit 가
 . EFFECTS PLUG-INS [1-8]
 Plug-In
TITLE: Y56K , USER DEFINED
 , Plug-In Edit
PORT: Y56K , 가 USER DEFINED
 , MIDI MIDI, 1-8, USB 1-8 1 1-8
 . MIDI MIDI/To Host Setup .
 182 "MIDI I/O" .
 Setup 231 "
 (SmartMedia) DM2000 "

(Plug-In Edit)

Plug-In (User Defined Plug-In) MIDI (231 Y56K 가 (User Defined Plug-In) . Wave Plug-In (Bulk Dump) MIDI (187), (Data filer)

- 1 EFFECTS/PLUG INS [PLUG-INS]
- 2 EFFECTS/PLUG INS [1-8]
- 3 EFFECTS/PLUG INS [DISPLAY]



- 4 , Parameter wheel INC/DEC , [ENTER]

TRANSMIT: (Plug-In) MIDI 가

INITIALIZE:

BANK: (Plug-In) (parameter bank) 4 가 32 가

TITLE: (16) [ENTER] . Title Edit() OK 38 "Title Edit Window"

PARAMETER ID/NAME: Plug-In Edit() 4 Rotary control , control (16) . Parameter wheel INC/DEC 1-4 ID , [ENTER] . Title Edit() OK 38 "Title Edit Window"

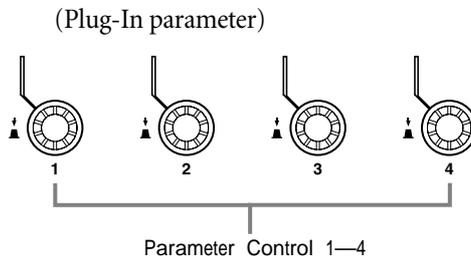
DATA: control MIDI (16) . PARAMETER ID/NAME , 1-4 ID . VAL Parameter control . END . NOP 가

LEARN: Learning() MIDI control MIDI 가 MIDI 가 DATA 16

MIN/MAX: Parameter control MIDI
 . PARAMETER ID/NAME , 1-4
 ID .
VAL: Parameter control DATA VAL
 가

VAL()		VAL
One byte	(parameter) 7 (bit) 1 (word)	1 VAL
MSB/LSB	(byte) 14 (bit) 7 (bit) (parameter value)	2 VAL
LSB/MSB	(byte) 14 (bit) 7 (bit) (parameter value)	2 VAL
2 Nibbles M	8 (bit) 4 (bit) , (parameter value)	2 VAL
3 Nibbles M	12 (bit) 4 (bit) , (parameter value)	3 VAL
4 Nibbles M	(bit) , (parameter value) 4	4 VAL
2 Nibbles L	8 (bit) 4 (bit) , (parameter value)	2 VAL
3 Nibbles L	12 (bit) 4 (bit) , (parameter value)	3 VAL
4 Nibbles L	(bit) , (parameter value) 4	4 VAL

Plug-In Edit control , MIDI 가 Parameter control
 control .
 Plug-In Edit Parameter control 1-4



Y56K (Effect) (Internal Effect processor)
 , EFFECTS/PLUG-INS [CHANNEL INSERTS] ,
 EFFECTS/PLUG-INS [1-8] 가 , Effects Plug-In Edit
 가 . Y56K , [PLUG-INS] .
 (Internal Effect processor) , [INTERNAL EFFECTS]
 (Effect) .
 , 가 .
 Plug-In 가 Scene . Scene
 Plug-In (Target) Scene , 가
 MIDI 가 (, REMOTE 가 ENABLED).
 MIDI

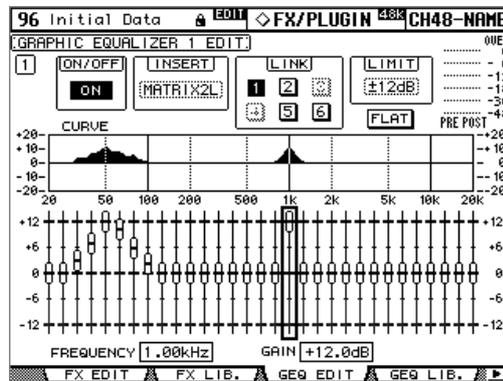
GEQ

DM2000 (Bus Out), (Aux Send) (Matrix Send)
 (Stereo Out) 31band
 (Graphic equalizer)가 6 GEQ .1
 (Preset Memory) 128 (User Memory)
 GEQ GEQ 142
 "GEQ"

GEQ (GEQ Edit)

GEQ

- 1 EFFECTS/PLUG INS [GRAPHIC EQUALIZERS]
- 2 EFFECTS/PLUG INS [1-6] GEQ
- 3 EFFECTS/PLUG INS [DISPLAY] GEQ Edit



- 4 , Parameter wheel INC/DEC , [ENTER]

ON/OFF: GEQ

INSERT: GEQ insert ((Bus Out), (Aux Send)
 (Matrix Send) (Stereo Out))
 Output Channel Insert (111) Graphic Equalizer Insert
 (66)

LINK: GEQ GEQ GEQ

LIMIT: GEQ / ± 15 dB, ± 12 dB, ± 6 dB -24 dB

FLAT: GEQ 0 dB

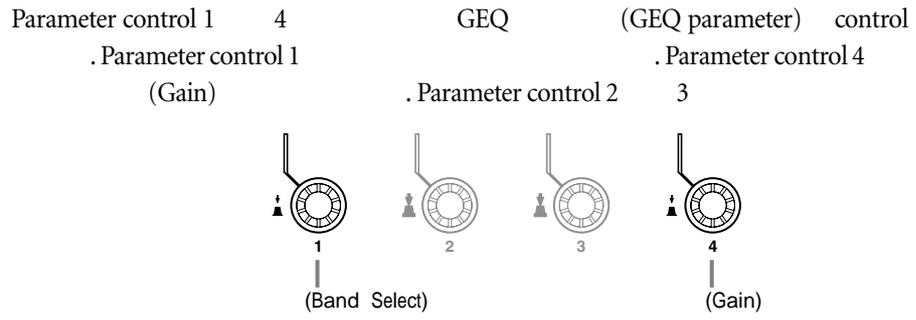
Meters: GEQ(Pre-GEQ) GEQ(Post-GEQ)

CURVE: GEQ

Faders: [ENTER]
 0 dB

FREQUENCY:

GAIN: Gain



16 Scene Memory

Scene Memory

Scene Memory DM2000 (Snapshot) Scene
 . Scene Memory 99 ,
 (Fade Time) (Input & Output Channel fader) 30
 Channel parameter Scene recall . Recall Safe Input & Output
 Scene

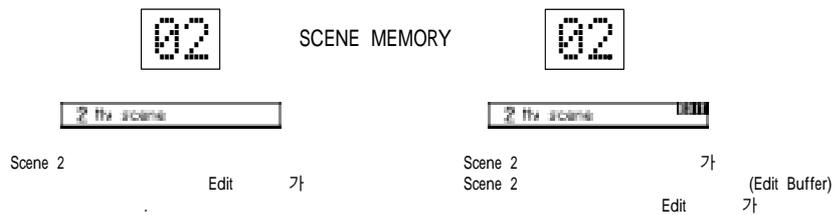
SCENE MEMORY [STORE] [RECALL] , Scene Memory
 Scene . MIDI (MIDI Program
 Chane number) Scene , Scene
 185 " (Program Change) Scene "
 . DM2000 Scene , Scene 가 ,
 MIDI (Program), (Effect)
 (Scene recall) (Automix)
 (Automix) , Scene .
 164 " (Automix)"
 Scene Memory MIDI (Bulk Dump) MIDI (Data filer)
 MIDI (187) .
 (231) .

Scene

Scene Input & Output Channel , (Effect) , GEQ ,
 Group , (Fade Time) , Scene .

(Edit Buffer) Edit Indicator
 (Edit Buffer) (, Scene) . Scene
 , (Edit Buffer) Scene Memory . Scene
 (recall) , Scene Memory (Edit Buffer)

Scene MEMORY) control , indicator(SCENE
 Scene) "EDIT"가 , (, (Edit Buffer)
 Scene Scene



DM2000 (Edit Buffer) .

Scene Memory 0 U
 Scene Memory 0 (mix parameter)
 (mix parameter) , Scene
 Memory 0 (Input Channel fader)
 - dB (235) .

Scene Memory U Scene Memory
 . Scene Memory , Scene Memory U
 Scene Memory . Scene Memory
 , Scene Memory U
 .
 .
 Scene Memory U

(Auto Scene Memory Auto Update)

, Scene (recall) , Scene
 . 235 Scene MEM Auto Update ,
 Shadow Memory . Scene Memory Shadow
 Memory가 . Shadow Memory
 , A/B .
 Scene , Scene Memory Shadow
 Memory . Scene 가 , Shadow Memory Original
 Memory .
 Scene MEM Auto Update , Original Memory가 Shadow Memory가
 . Original Memory , Shadow Memory ,
 Edit indicator가 . Original Memory가
 .
 Original Memory Shadow Memory , indicator
 , Original Memory가 가
 Shadow Memory가 . , Scene , Original
 Memory Shadow Memory ,
 indicator가 .
 , Shadow Memory가 Original Memory
 . Automix Scene , Original Memory
 . MIDI Scene , Original Memory
 Shadow Memory , DM2000 Scene Memory Scene
 Memory Scene .

SCENE MEMORY

Scene

Scene Memory , Scene Memory 가 ,
 Scene Memory . Scene Memory
 , Scene Memory "NO DATA(
)" , Scene Memory .

: Scene , (Edit Buffer)
 . (Edit Buffer) , Scene
 Scene Memory Scene . Scene

Scene (Storing)

- 1 **Scene Memory Up [▲] Down [▼]** **Scene Memory** .
- 2 **[STORE]** .
 Title Edit Window() . 235 Store Confirmation(
) .
- 3 .
 38 "Title Edit Window" .
- 4 **Title Edit OK** .
 Scene Scene Memory .
 Scene Memory U (Scene Memory "Ud") , Scene

Scene (Recalling)

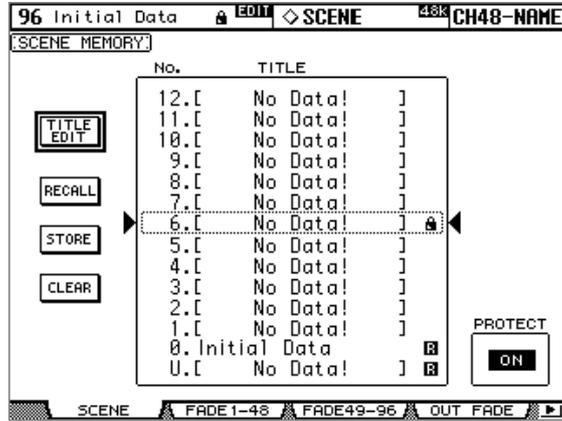
- 1 **Scene Memory Up [▲] Down [▼]** **Scene Memory** .
- 2 **[RECALL]** .
 Scene Memory , (Mix parameter)가
 . Recall Confirmation , Scene
- Scene Memory U (Scene Memory "Ud") , Scene recall

Scene Memory

Scene Memory Scene Store, Recall, Write-protect, Delete Edit

1 Scene Memory [DISPLAY]

Scene Memory



2 (Parameter wheel) INC/DEC Scene Memory

(dotted box)

3

TITLE EDIT: Scene Memory , [ENTER]

. Title Edit Window가 , OK

38 "Title Edit Window"

RECALL: Scene Memory , [ENTER]

. Scene Memory , (parameter)

, Scene Memory ,
indicator가 . Recall Confirmation , Scene

STORE: Scene Memory Scene , [ENTER]

. Title Edit Window가 , OK

38 "Title Edit Window" . Scene , Scene Memory
가 . 235 Store

Confirmation Title Edit Window가

CLEAR: Scene Memory ,

[ENTER] , YES

PROTECT: Scene Memory , [ENTER]

. Scene Memory .
Scene Memory Scene . PROTECT , INC/DEC
Scene Memory

Scene

Input Channel, Bus Out, Aux Send, Matrix Send Stereo Out (Fade Time)
 (Fade time) Scene (recall)
 (Input & Output Channel fader)가 Scene
 (Fade time) Scene

1 Scene Memory [DISPLAY]

Input Channel 1-48 (Fade Time parameter) Input CH1-48
 Fade Time , Input Channel 49-96 Input CH49-96 Fade Time
 (Bus Out), (Aux Send), (Matrix Send)
 (Stereo Out) Output Fade Time

Fade Time

96 Initial Data		EDIT		SCENE		48k		CH48-NAME	
[INPUT CH1-48 FADE TIME]				[CH25 LONG NAME--]				[ALL CLEAR]	
INPUT CH (sec)	1	2	3	4	5	6	7	8	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	9	10	11	12	13	14	15	16	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	17	18	19	20	21	22	23	24	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	26	27	28	29	30	31	32		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
33	34	35	36	37	38	39	40		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
41	42	43	44	45	46	47	48		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Double Click to copy to all Inputs

SCENE FADE1-48 FADE49-96 OUT FADE

96 Initial Data		EDIT		SCENE		48k		CH48-NAME	
[INPUT CH49-96 FADE TIME]				[CH73 LONG NAME--]				[ALL CLEAR]	
INPUT CH (sec)	49	50	51	52	53	54	55	56	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	57	58	59	60	61	62	63	64	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	65	66	67	68	69	70	71	72	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
73	74	75	76	77	78	79	80		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
81	82	83	84	85	86	87	88		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
89	90	91	92	93	94	95	96		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Double Click to copy to all Inputs

SCENE FADE1-48 FADE49-96 OUT FADE

96 Initial Data		EDIT		SCENE		48k		BUS1-NAME	
[OUTPUT FADE TIME]				[BUS1 LONG NAME--]				[ALL CLEAR]	
BUS (sec)	1	2	3	4	5	6	7	8	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
AUX (sec)	1	2	3	4	5	6	7	8	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MATRIX (sec)	9	10	11	12					
	0.0	0.0	0.0	0.0					
STEREO (sec)	1	2	3	4					
	0.0	0.0	0.0	0.0					

Double Click to copy to all Outputs

SCENE FADE1-48 FADE49-96 OUT FADE

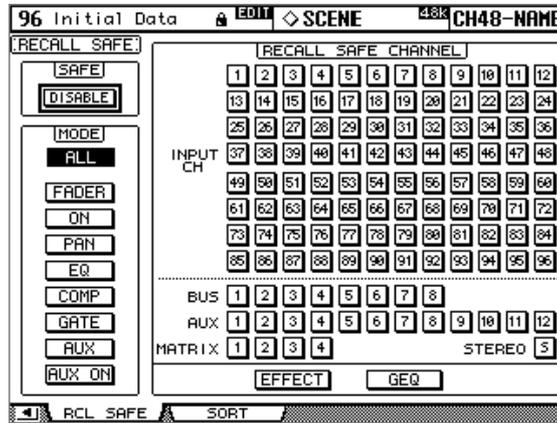
2

[SEL] (Fade Time parameter) (Parameter wheel) INC/DEC
 [ENTER] Input/Output Channel (Fade Time)
 Input/Output Channel (Fade Time parameter)
 [SEL]
 (Fade Time) 0 30 0.1
 ALL CLEAR [ENTER] (Fade Time parameter) 0

Safely Scene Recalling

Scene , (Mix parameter)가 , (Recall Safe) 가 . Input Channel, Bus Out, Aux Send, Matrix Send Stereo Out Recall Safe .

1 Scene Memory [DISPLAY] Recall Safe



2 SAFE ENABLED/DISABLED , [ENTER] INC/DEC Recall Safe 가 .

3 , [SEL] (Parameter wheel) , [ENTER] INC/DEC Safe Channel

[SEL] , Recall Safe 가 .

4 (Parameter wheel) MODE , [ENTER]

MODE Scene (Safe Channel parameter) . ALL(, FADER, ON, PAN, EQ, COMP, GATE, AUX(Aux/ Mtrx Send), AUX ON(Aux/Mtrx Send /). EFFECT GEQ MODE , (Effect) GEQ

Recall Safe (Setup) 231 " (SmartMedia) DM2000 "

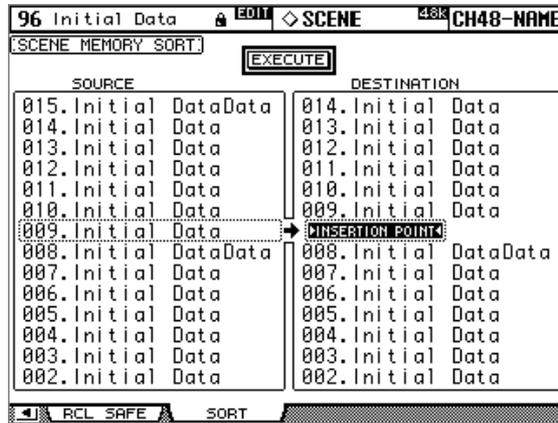
Scene

Scene Memory Sort

Scene

1 Scene Memory [DISPLAY]

Scene Memory Sort



2

INC/DEC

SOURCE

, (Parameter wheel)
Scene Memory

3

INC/DEC

DESTINATION

, (Parameter wheel)
Scene Memory

4

[ENTER]

Scene Memory

[ENTER]

(Sort)

17 (Automix)

(Automix)

DM2000 (Automix) (Level), (Mute), (Pan),
 (Surround Pan), / (Aux/Matrix Send), /
 (Aux/Matrix Send Mute), (EQ), (Effect), (Plug-In)
 (Mix parameter) (automation)
 (parameter)
 (Recording) (Punch In/Out)
 (User Defined Remote Layer) Scene (recall)
 (automation), (Snapshot) (automation)
 (Event), 1/4
 (Offline Edit) / (Punch In/Out) 가
 (Automix) (External timecode source)
 (Internal timecode generator)
 16 (Automix) (Automix)
 . 147 " (Automix) "MIDI (Bulk Dump)(187
) MIDI (Data file) MIDI ,
 (231) (Automix)

(Automix)

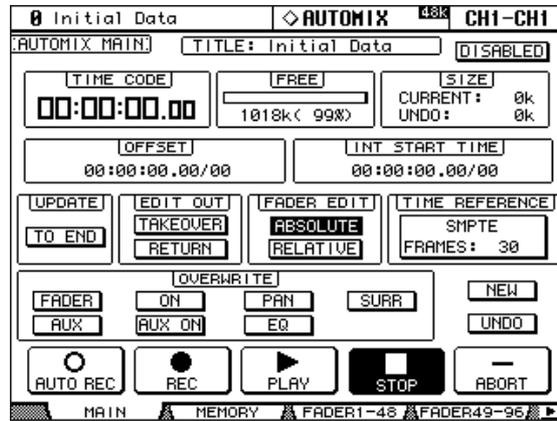
(Automix)

(Parameter)	Input Channel	(Bus Out Master)	(Aux Send Master)	(Matrix Send Master)	(Stereo Out)
Channel Levels() ()	O	O	O	O	O
Channel Mutes() (/)	O	O	O	O	O
Pan()	O				
Surround Pan()	O				
EQ() (F, Q, G, /)	O	O	O	O	O
Aux Send() 1-12	O				
Aux Send() 1-12	O				
Matrix Send() 1-4		O	O		O
Matrix Send() 1-4		O	O		O
Scene recalls					
EQ(), Gate(), Comp(), Effects(), (Channel)					
Effect() ()					
User Defined Plug-In() (1-4)					
User Defined Remote Layers() [ON],)					

(Automix Main)

Automix Main

1 AUTOMIX [DISPLAY] Automix Main()



2 (Parameter wheel) INC/DEC
[ENTER]

TITLE: (Automix)
DISABLED/ENABLED: (Automix) 가
AUTOMIX [ENABLE]

TIME CODE: MB2000
(Peak Meter Bridge)가
가 TIME CODE

FREE: (Automix) (kilobyte),
(percent), (bargraph)

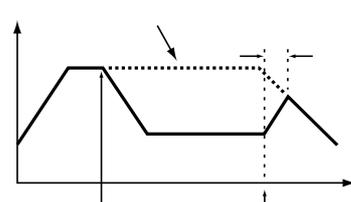
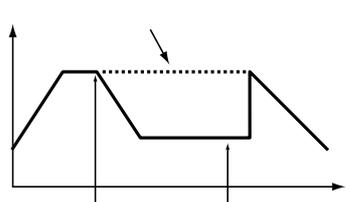
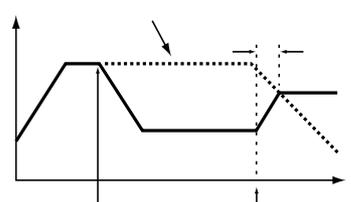
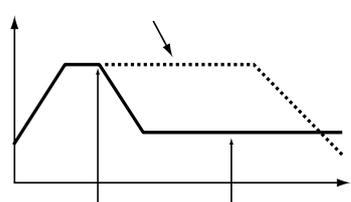
SIZE: (Automix) (Undo buffer)
(Automix data) 가 (kilobyte)

OFFSET: (External timecode source) , , ,
(parameter)
(Event) "+"
"-"
[ENTER]

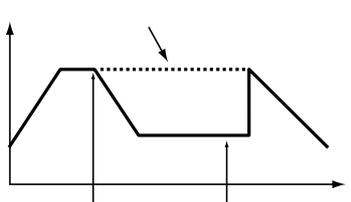
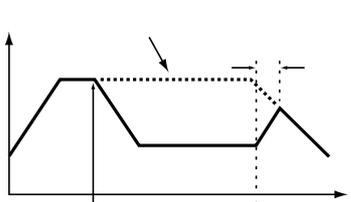
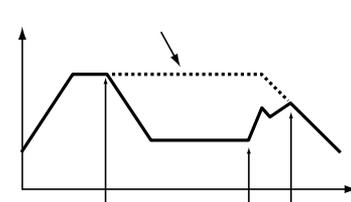
INT START TIME: (Internal timecode generator) ,
(parameter)
[ENTER] 가 "00"
(Internal timecode generator) Time Reference (171)

UPDATE: (Event)
TO END , 가 (Automix)
(Event)가 , 가
(Punch out) . TO END

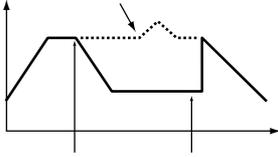
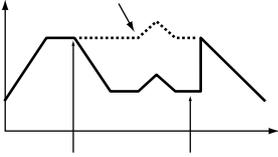
TO END , (Fader event) Fader Edit(
) Edit Out , Fader Edit 가
Absolute Relative , Edit Out
Takeover Off() , (Fader)

TO END	Return()	Takeover or Off()
OFF()	(Fader)가 Fader Edit(Time parameter) (Fader data) 	(Fader event)가 (Fader)가 
ON	parameter) (Fader data) 가 (Time parameter) (Automix) 가 	(Fader)가 (Automix) (Event)가 

EDIT OUT: Off(), Takeover(), Return() (Edit Out)
 (Fader data) (Edit Out) (Fader) (Edit Out)
 Input Channel (Bus Out Master), (Aux Send Master), (Matrix Send Master), (Stereo Out), (User Defined Remote)
 Layer Fader (Edit Out) AUTOMIX [RETURN] (Edit Out)
 (Return Time) Fader Edit() (171).

OFF()	Return()	Takeover()
(Punch Out) (Fader event)가 	(Punch Out) 가 (Time parameter) (Fader data) 	(Punch Out) (Fader data) (Punch Out) Fader knob 가  , [AUTO] (Punch Out) (Punch Out) (Fader)

FADER EDIT: (Absolute) (Relative) Fader Edit
 (Fader Edit)
 (Absolute) (Fader move)
 (Fader data)가 (Relative)
 (Fader move) (Fader data)
 (Fader data) Input Channel (Bus Out Master)
 (Aux Send Master) (Matrix Send Master)
 (Stereo Out) (User Defined Remote Layer Fader)
 .AUTOMIX [RELATIVE] (Fader Edit)
 (Fader Edit) (TO END: Edit Out:)

(Absolute)	(Relative)
(Fader Edit) (Punch In & Out) (Fader data)	(Fader Edit) (Fader data)
	

TIME REFERENCE:

[ENTER] , Time Reference (171)

OVERWRITE:

(,) (parameter)
 OVERWRITE
 .AUTOMIX [FADER], [ON], [PAN], [SURROUND], [AUX], [AUX ON] [EQ]

(Parameter)	
FADER	(Input Channel, Bus Out Master, Aux Send Master, Matrix Send Master, Stereo Out, User Defined Remote Layer Fader)
ON	(Channel Mute)(/), (User Defined Layer) [ON]
PAN	(Input Channel Pan), (User Defined Layer Encoder)
SURR	(Input Channel Surround Pan), LFE , DIV
AUX	/ (Aux/Matrix Send) 1-12
AUX ON	/ (Aux/Matrix Send) 1-12
EQ	(EQ)(F, Q, G, /)

Scene , (Internal Effect processor) (Plug-In)

OVERWRITE

NEW: (Automix) (Automix)
 Scene(, Scene) Scene recall event가
 (Automix) Scene
 Scene (Automix) (Mix parameter)가
 (Automix) (Mix parameter)가

UNDO:

(Automix) (Automix)
 (Automix) (Automix)
 (Offline Edit) (Undo) (Automix)
 가 (Undo buffer) (Automix) UNDO
 .AUTOMIX [ABORT/UNDO]

AUTO REC: (Automix) REC (Auto Record) 가

AUTOMIX [AUTO-REC]

REC: 가 (Automix) (Record-Ready) AUTO REC (Record-Ready) (Automix) , PLAY (,) , REC () PLAY() AUTOMIX [REC]

PLAY: (Timecode source) (Automix) (External timecode source) (External timecode)가 , .STOP ABORT (Automix) 가 REC (Automix) (Punch in)

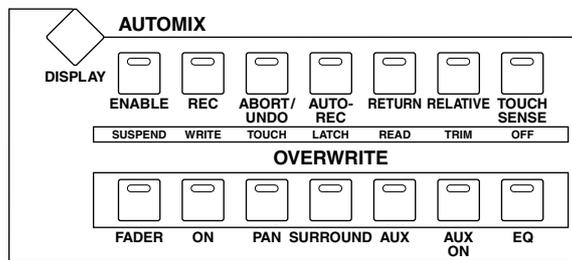
STOP: (Automix)

(Automix)가

ABORT: (Automix data) .AUTOMIX [ABORT/UNDO] (Automix)

AUTOMIX

(Automix) AUTOMIX control



DISPLAY : (Main), (Memory), (Fader Edit), (Event Copy),

[ENABLE] : (Automix) 가 AUTOMIX Main ENABLED/DISABLED

[REC] : (Record-Ready) (Record-Ready) indicator가 ,

[ABORT/UNDO] : (Automix) (Automix) (Undo) (Undo) buffer (Automix) . Automix Main Memory ABORT UNDO

[AUTO-REC] : . Automix Main Memory AUTO REC indicator가

[RETURN] : (Edit Out) . Automix
 Main Memory EDIT OUT RETURN . indicator가
 , (Return) 가 . indicator가 , (Takeover) 가
 . indicator가 ,

[RELATIVE] : (Edit Out)
 Automix Main Memory FADER EDIT . indicator가
 , (Absolute) 가 . indicator가 , (Relative) 가

[TOUCH SENSE] : Fader Touch Sense
 FADER EDIT TOUCH SENSE (170) .

[FADER], [ON], [PAN], [SURROUND], [AUX], [AUX ON], [EQ] :
 (parameter) (,)
 . Automix Main Memory

Channel Strip [AUTO]

Channel Strip [AUTO] (arming) , 

(Punch In & Out)

[AUTO]

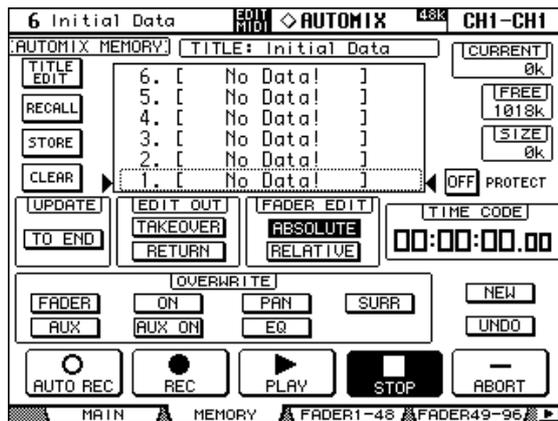
- : (Automix)
- : (Automix)
- : (Record-Ready)
- : (, 175)
- : (Takeover)
- : (Takeover Edit Out)

(Punch Out) (Fader) (Fader)가

(Automix Memory)

Automix Memory (Automix)
 Automix Main

1 **AUTOMIX [DISPLAY]** Automix Memory()

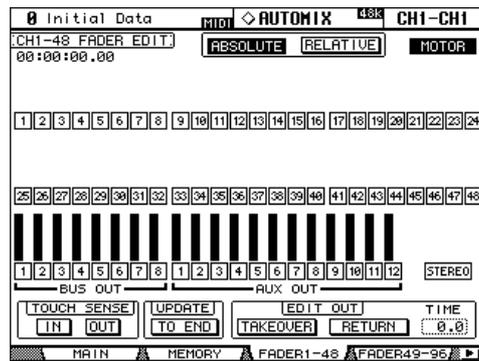


2 , (Parameter wheel) INC/DEC
 , [ENTER]
 (Automix) 147 " (Automix) "
 Main 165

(Fader Edit)

가 Fader Edit()
 , (Fader Edit) 가 . CH1-48 Fader Edit
 Input Channel 1-48 Bus Out, Aux Send, Stereo Out
 CH49-96 Fader Edit Input Channel 49-96 Bus Out, Aux Send, Matrix Send
 . Fader , Input & Output
 . Aux/Matrix , Aux/Matrix Send
 , (Fader bar) 가
 (Fader) 가 (Fader data)
 (Fader) 가 (Fader data)

1 **AUTOMIX [DISPLAY]** Fader Edit()
 CH1-48 Fader Edit



2 , (Parameter wheel) INC/DEC
 , [ENTER]

(Timecode)
Edit Safe : (Fader bar) Channel Safe
 , (Automix)
 Channel Safe [ENTER]
 , Channel Safe 가
 , (Event)가 (Fader), (Encoder), [ON]
 , (Event) Channel Safe
 (Mix move) . Channel Safe

ABSOLUTE **RELATIVE:** Main Memory
 165 " (Automix Main) "
MOTOR: (Automix) (Fader motor)

TOUCH SENSE: (Fader knob)
 (Punch In or Out) IN
 OUT
 IN OUT AUTOMIX [TOUCH SENSE]
 (Touch sense) , IN OUT
 , AUTOMIX [TOUCH SENSE] IN OUT
 IN OUT , AUTOMIX
 [TOUCH SENSE] IN

UPDATE: Main Memory . 165
 " (Automix Main) "
 EDIT OUT: TAKEOVER RETURN Main Memory
 . 165 " (Automix Main) "
 . TIME (Edit Out) 가 (Return)
 가 (Automix data) 가
 . 0.0 30.0 0.1

(Timecode Source)

(Frame Rate)

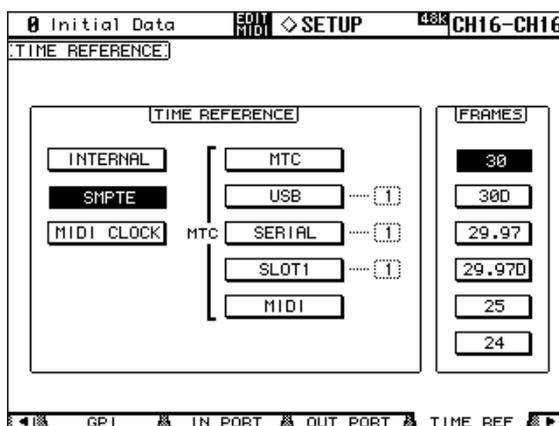
(Automix)

(Timecode)

(Frame Rate)

1 DISPLAY ACCESS [SETUP]

Time Reference



2

(Parameter wheel) INC/DEC

[ENTER]

TIME REFERENCE:

INTERNAL	
SMPTE	SMPTE TIME CODE INPUT SMPTE
MIDI CLOCK	MIDI IN(MIDI) MIDI
MTC	MTC TIME CODE INPUT MTC
USB	USB TO HOST MTC
SERIAL	SERIAL TO HOST MTC
SLOT1	1 MTC(1 mLAN I/O)
MIDI	MIDI IN MTC

USB, 1, 1-8

FRAMES: (Frame rate) 30, 30D, 29.97, 29.97D, 25 24 (Frame rate)가

(Automix)

MIDI CLOCK (Song position pointer), F8 TIMING CLOCK(), FA START((Automix)), FB CONTINUE((Automix)), FC STOP((Automix))

6 [AUTO] (Automix) (arming)

[AUTO] 가

7

AUTOMIX [REC] 가 , Automix Main Memory
REC PLAY

8 (Fader) control

SELECTED CHANNEL . [AUTO]

(Punch Out) . [AUTO]

9 (Automix) , (Timecode)

Automix Main Memory STOP

(Automix) 가 (,)

(Event Rerecording)

(Event) . 가
(Punch-in) (parameter) . [AUTO]
, OVERWRITE [AUTO]
(Punch in) ,

(Punch in/out) (175

). Update To End , (Event)

(165). (Edit Out)(166) (Fader
Edit)(167) (Fader event)

(Parameter Recording)
(parameter)
(display)

(Parameter)		(Overwrite)		(Pair)/
Channel Levels () ()	(Input)	FADER	(Layer) (Input) , (Fader)	(pairing) (Fader) (group fader)†
	(Bus Out), (Aux Send), (Matrix Send)		(Layer) (Master) , (Fader)	
	(Stereo Out)		(Stereo Out fader)	
Channel Mutes (/)	(Input)	ON	(Layer) (Input) , [ON]	(pairing) [ON] (group mute)†
	(Bus Out), (Aux Send), (Matrix Send)		(Layer) (Master) , [ON]	
	(Stereo Out)		(Stereo Out) [ON]	
Pan ()	(Input)	PAN	(Layer) (Input) , (Encoder) PAN control [LINK] (SELECTED CHANNEL PAN control † (Joystick))	† Gang () Inverse- Gang () (pairing)
Surround Pan ()	(Input)	SURR	([LINK]† CHANNEL PAN control) (SELECTED (surround parameter)† (Encoder) (Encoder))	Surround Edit () ST LINK
EQ () (F, Q, G, /)	(Input), (Bus Out), (Aux Send), (Matrix Send), (Stereo Out)	EQ	SELECTED CHANNEL EQUALIZER () (EQ) † (Encoder)	(pairing) (EQ) (group EQ)†
AUX send () 1-12	(Input)	AUX	SELECTED CHANNEL AUX/MATRIX SEND LEVEL control (Layer)† (Input) (Fader) † / (Aux/Mtrix) (Layer)† (Input) (Encoder) † / (Aux/Mtrix) (Encoder))	(pairing) (Aux Send) (Aux Send)† (pairing) (Aux Send)
AUX send () 1-12	(Input)	AUX ON	SELECTED CHANNEL AUX/MATRIX SEND [ON]	(pairing) (Aux Send Mute)† () (Aux Send)† (Aux Send) †
Matrix send () 1-4	(Bus Out), (Aux Send)	AUX	(Layer)† (Fader) † (Aux/Mtrix Send) † (Layer)† (Encoder) † / (Aux/Mtrix Send) ,)	(pairing) (Bus Out) (Aux Send) (Matrix Send)
	(Bus Out), (Aux Send), (Stereo Out)		SELECTED CHANNEL AUX/MATRIX SEND control	
Matrix send () 1-4	(Bus Out), (Aux Send), (Stereo Out)	AUX ON	SELECTED CHANNEL AUX/MATRIX SEND [ON]	(pairing) (Bus Out) (Aux Send) (Matrix Send) †
Scene recalls ()			SCENE MEMORY Scene Memory	
Library recalls ()	(Gate), (EQ), (Comp), (Effect), (Cha nnel)			
Effect () ()	(Effect pr ocessor) 1-8		Parameter control 1-4 (/ (Punch in/out)	
User Defined Plug-Ins () (1-4)	(Plug-In) 18		Parameter control 1-4 (/ (Punch in/out)	
User Defined Remote Layers ()	(Fader)	FADER	User Defined Remote Layer , (Fader)	
	[ON]	ON	User Defined Remote Layer , [ON]	
	(Encoder)	PAN	User Defined Remote Layer , (Encoder)	

Parameter Punch In & Out

(Automix) , Channel strip[AUTO] /
 (Punch in/out) (parameter) /
 (Punch in/out)

(Parameter)				(Punch In)	(Punch Out)
Channel Levels () ()	(Input)	FADER	(Layer) (Input) , (Fader)	Fader knob .1	Fader knob .2
	(Bus Out), (Aux Send), (Matrix Send)		(Layer) , (Fader)		
	(Stereo Out)		(Stereo Out)		
Pan()	(Input)	PAN	(Layer) (Input) , (Encoder) (Pan) (SELEC TED CHANNEL PAN control, 7† (joystick) [LINK])	(Encoder) .	(Encoder) .
Surround Pan ()	(Input)	SURR	(Input) (Layer) LFE	(Encoder) .	(Encoder) .
EQ() (F, Q, G)		EQ	Auto EQ Edit In() (237) . SELECTED CHAN NEL EQUALIZER (EQ) 7† (Encoder) ,	control .	[AUTO] .
EQ On/Off (/)				[ON] (EQ) .	[AUTO] .
Aux send() 1-12	(Input)	AUX	(Layer) (Input) (Aux/Mtrx) (Fader) /	er knob) (Fad .1	Fader knob .2
			(Layer) (Input) , (Aux/Mtrx) (SELECTED CHANNEL AUX/MATRIX S END LEVEL control)	(Encoder) .	(Encoder) .
Aux send() 1-12	(Input)	AUX ON	(Layer) (Input)	SELECTED CHANNEL A UX/MATRIX SEND(/) [ON] .	[AUTO] .
Matrix send (1-4)	(Bus Out), (Aux Send), (Stereo Out)	AUX	(Layer) (Input) , (Fader) / (Aux/Mtrx)	er knob) (Fad .1	Fader knob .2
			(Layer) / (Aux/Mtrx) (Encoder) (SELECTED CHANNEL AUX/MATRIX SEND LEVEL control)	(Encoder) .	(Encoder) .
Matrix send (1-4)	(Bus Out), (Aux Send), (Stereo Out)	AUX ON	(Layer)	SELECTED CHANNEL AUX/MATRIX SEND(/) [ON] .	[AUTO] .
Effect() ()	(Effect processor) 1-8		(Internal Effect processor)	control 1-4 .	control 1-4 .
User Defined Plug-Ins () (1-4)	(Plug-In) 1-8		(Plug-In)	control 1-4 .	control 1-4 .
User Defined Remote Layers ()	(Fader)	FADER	User Defined Remote Layer	er knob) (Fad .1	Fader knob .2
	(Encoder)	PAN	User Defined Remote Layer	(Encoder) .	(Encoder) .

1. (Fader Edit) TOUCH SENSE IN
2. Fader Edit() TOUCH SENSE OUT
3. (Matrix Send) (Stereo Out)

(Automix) control (parameter)
(Punch in) , OVERWRITE ,
(parameter) 가 , control (Punch
out) . (Punch out) , (Punch
(Automix) [AUTO] , OVERWRITE
(parameter) 가 . [AUTO]
(Punch out) , 가 (Punch out)
. (Fader)가 , OVERWRITE FADER , [AUTO]
Fader knob ((Fader Edit)
TOUCH SENSE가) (Record) [AUTO]
가 (OVERWRITE ON)
(EQ)(OVERWRITE EQ) .

(Automix)

(Automix) 가 , (Automix)
(timecode) (Automix)
. (Automix)
Automix Main Memory STOP ABORT , AUTOMIX
[ABORT/UNDO]
(timecode source)가 가
. (Timecode source) , Automix Main
Memory PLAY (Automix) , STOP
. [AUTO] (Automix)
. [AUTO] 가 .
(Automix) [AUTO] 가 .
, (Fader) (Fader event) (
(Layer) (Fader) 가). (Fader move)
Edit() (170). (Fader event) Fader
Channel strip display ,
(display) 가 SELECTED CHANNEL control
(Effect) (Effect parameter edit)
. (Effect parameter edit) ,
(Effect event) (Offline Event Edit)" 177
"

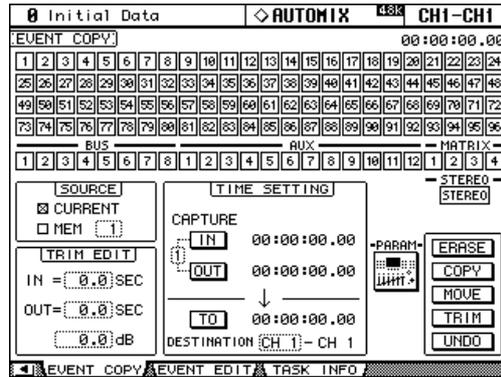
(Offline Event Edit)

Event Copy() Event Edit() (Automix)
 (Offline edit) (Automix)

(Event Copy)

Event Copy , In Out
 Erase, Copy, Move/Merge, Trim

1 AUTOMIX [DISPLAY] Event Copy()



2 , (Parameter wheel) INC/DEC

[ENTER]
Channel : Erase, Copy, Move/Merge, Trim
 (Automix data), 가 Input & Output Channel

(Parameter wheel)

가 ,
 (Scene recall

event) (Effect) (Plug-In)

SOURCE: Copy Move/Merge (source Automix)
 (parameter) . CURRENT, (Automix), MEM 1-16
 (Automix) . MEM , MOVE MERGE

. Erase Trim (Automix)
TIME SETTING: IN OUT Erase, Copy, Move/Merge, Trim
 (Automix data) . IN OUT IN OUT
 [ENTER] (Parameter wheel) INC/DEC . [ENTER]

가 "00" . 8 IN OUT Capture
 8 (Capture)

Memory , (Parameter wheel) INC/DEC
 Capture memory

TO (parameter) (Copy) Move/Merge
 . TO [ENTER] TO
 (Parameter wheel) INC/DEC

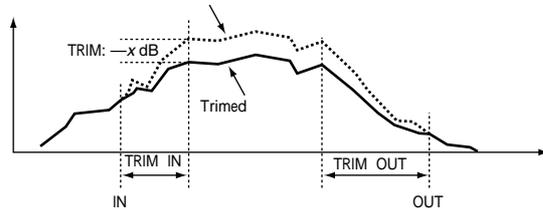
. [ENTER] 가 "00"
DESTINATION (parameter) Copy Move/Merge

Input Channel 1-8 ,

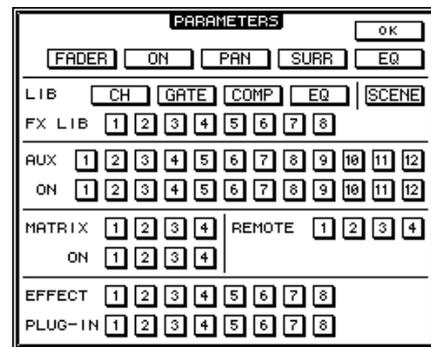
8

TRIM EDIT: TRIM IN TRIM OUT 0.5 dB
 . TRIM IN
 . TIME SETTING IN

TRIM OUT (Fader) 가
 . TIME SETTING OUT



PARAM: , Erase, Copy,
 Move/Merge, Trim
 PARAMETERS (parameter)가



FADER		(Input Channel, Bus Out Master, Aux Send Master, Matrix Send Master, Stereo Out)
ON		(Channel Mute)
PAN		(Input Channel Pan)
SURR		(Input Channel Pan), LFE , DIV()
EQ		(Channel EQ)
LIB	CH	(Channel)
	GATE	(Gate)
	COMP	(Comp)
	EQ	(EQ recall)
	SCENE	Scene recall
FX LIB	1-8	(Internal Effect processor) (Effect)
AUX	1-12	(Aux Send)
ON	1-12	(Aux Send)
MATRIX	1-4	(Matrix Send)
ON	1-4	(Matrix Send)
REMOTE	1-4	(User Defined Remote Layer)
EFFECT	1-8	(Internal Effect processor)
PLUG-IN	1-8	(Plug-In)

ERASE : (Automix) .IN OUT .
 .PARAMETERS (Automix) .
 ERASE [ENTER] .

COPY : (Automix) .IN OUT .
 . TO .
 DESTINATION .
 PARAMETERS (Automix) .
 COPY [ENTER] .

MOVE/MERGE : (Automix) / (Move/Merge)
 , SOURCE() CURRENT()
 .IN OUT .
 . TO .
 . DESTINATION .
 .PARAMETERS (Automix) .
 MOVE [ENTER] .
 (Automix) , SOURCE MEM .
 (Automix) .IN

OUT . TO .
 . DESTINATION .
 .PARAMETERS (Automix)
 MERGE [ENTER] .

TRIM : (Automix) .IN OUT .
 . TRIM EDIT IN OUT TRIM IN OUT
 , .PARAMETERS (Automix)
 () . TRIM [ENTER]

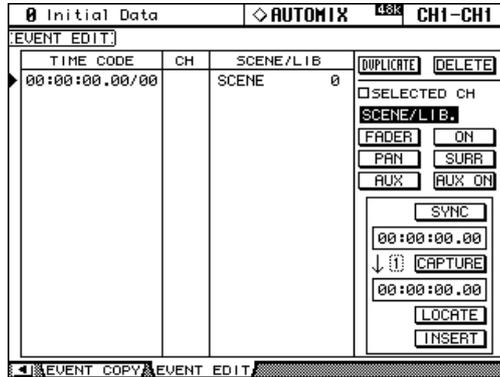
Master), , PARAMETERS , FADER(, Input Channel, (Bus Out
 (Aux Send Master), (Matrix Send Master),
 (Stereo Out)), AUX 1-12(, 1-12), MATRIX1-4(,
 1-4)

UNDO : Automix Main UNDO .
 167 "UNDO" .

(Event Edit)

Event Edit() Edit, Duplicate, Delete Insert

1 AUTOMIX [DISPLAY] Event Edit()



2 [ENTER] (Parameter wheel) INC/DEC

Event : (Automix) 가 (Event parameter) 가 DUPLICATE, DELETE, SELECTED CH, SYNC (Parameter wheel) INC/DEC (Event parameter) control

DUPLICATE : (Parameter wheel) , DUPLICATE [ENTER] (Duplicate event) 가

DELETE : (Parameter wheel) , DELETE [ENTER]

SELECTED CH: (Scene recall) (Effect) (pairing)

SCENE/LIB	Scene	TIME CODE, CH, SCENE/LIB
FADER	(Input Channel, Bus Out Master, Aux Send Master, Matrix Send Master, Stereo Out)	TIME CODE, CH, dB, SEC
ON	(Channel Mute)(/)	TIME CODE, CH, ON/OFF
PAN	(Pan)	TIME CODE, CH, L-C-R
SURR	(Surround Pan)	TIME CODE, CH, SURR
AUX	/ (Aux/Matrix Send) 1-12	TIME CODE, CH, AUX, dB
AUX ON	/ (Aux/Matrix Send) 1-12	TIME CODE, CH, AUX, ON/OFF

SYNC : (timecode) 가 가 가 (Automix)

Timecode counter():
CAPTURE : (timecode)
8 8 Capture Memory
(Parameter wheel) INC/DEC
Capture Memory . Capture Memory CAPTURE, LOCATE INSERT
Auto Inc TC capture(가) (237),
Capture Memory가 가 .
Link Capture & Locate Memory() (237
) , 8 Capture Memory가 8 (Locate Memory)
Capture Memory 1 (Locate
Memory) 1 , 가 .
Capture memory display():
(Parameter wheel) INC/DEC
[ENTER] 가 "00"
LOCATE : (Capture memory display)
INSERT : (Event select)
insert
(Timecode counter) insert . INSERT
[ENTER] .

18 MIDI

MIDI DM2000

- DM2000 MIDI .
- Scene recall (Program Change)(185)
- parameter control (Control Change)(186)
- parameter control (186)
- (Freeze effect) MIDI / (Note On/Off)(285)
- Scene, (Setup data) (Bulk Dump)(187)
- (Automix) MTC MIDI (171)
- control MMC(220)
- parameter control 1-4 , (User Defined Plug-in) MIDI (152)
- (Channel strip fader), (Encoder) [ON] , (User Defined Remote Layer)가 MIDI (217)
- (Pro Tools)(188) DAW((Remote Layer)

MIDI I/O

- DM2000 MIDI 가 .
- MIDI
- TO HOST USB
- TO HOST SERIAL
- SLOT 1(1 mLAN I/O)



TO HOST SERIAL, TO HOST USB SLOT 1 8

DM2000 MIDI , MIDI 가 (35).

TO HOST USB TO HOST SERIAL ,

CD-ROM YAMAHA CBX YAMAHA USB

(Macintosh) TO HOST USB TO HOST SERIAL

CD-ROM (Macintosh) YAMAHA USB

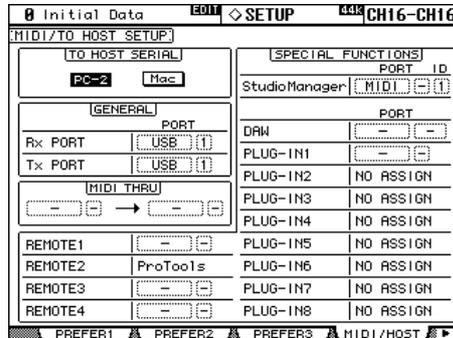
OMS 2. 3. 3 , .

MIDI

MIDI

1 DISPLAY ACCESS [SETUP]

MIDI/ TO HOST Setup



2

INC/DEC , [ENTER]

TO HOST SERIAL: (Macintoshi) PC TO HOST SERIAL

: TO HOST SERIAL PC , PC가
(Macintoshi)

GENERAL: Scene recall (Program Change), parameter control (Control Change), (Freeze effect) / (Note On/Off) MIDI . MIDI, SERIAL 1-8, USB 1-8, SLOT1 1-8 가 가

MIDI THRU: MIDI (parameter) . MIDI, SERIAL 1-8, USB 1-8, SLOT1 1-8 가 가

REMOTE1-4 : (Remote Layer) (parameter) 가 . MIDI, SERIAL 1-8, USB 1-8, SLOT1 1-8. (Pro Tools) (Remote Layer) "Pro Tools(")가

Studio Manager: Studio Manager 1-8 DM2000 ID (parameter) 가 . MIDI, SERIAL 1-8, USB 1-8, SLOT1 1-8. Studio Manager

DAW: DAW (parameter) . DAW control 3 가 , ,1-3, 2-4, 3-5, 4-6, 5-7, 6-8 3 . SERIAL, USB, SLOT1 가 가

PLUG-IN1-8: (Plug-In) (parameter) (Slot) (Wave Plug-In) (Plug-In target) USER DEFINED 가 , MIDI, SERIAL 1-8, USB 1-8 SLOT1 1-8 (User Defined Plug-In) Plug-In Setup() (152) .

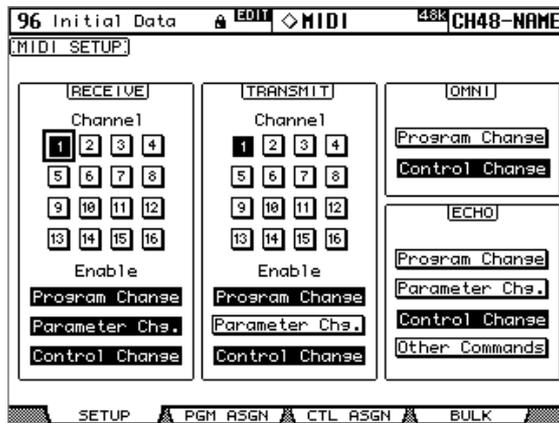
: "Change port()" 가 . YES , "NO ASSIGN"

MIDI

MIDI

1 DISPLAY ACCESS [MIDI]

MIDI Setup



2

(Parameter Wheel)

, INC/DEC

[ENTER]

RECEIVE: MIDI MIDI
 Enable(가) Program Change(), Parameter Change()
) Control Change()

TRANSMIT: MIDI MIDI
 Enable(가) Program Change(), Parameter Change()
) Control Change()

OMNI: Program Change() Control Change()
 DM2000 MIDI

ECHO: MIDI IN Program Change(), Parameter Change()
), Control Change() Other Commands() MIDI
 OUT

(Program Change) Scene

(Remote recall) MIDI DM2000 Scene (Program Change)

가 Scene (Program Change) 가 Scene (MIDI Setup parameter)

(Program Change) 가 Scene (MIDI Setup parameter)

(184).

Scene 1-99가 (Program Change) 1-99

. Scene 0 (Program Change) 100

. Scene (Program Change Assign Table)가 317

MIDI (Bulk Dump)(187) MIDI (Data filer)

MIDI (231)

1 DISPLAY ACCESS [MIDI]

Program Change Assign Table

PGM CHG	SCENE NO./TITLE
7 =	7.[No Data!]
6 =	6.[No Data!]
5 =	5.[No Data!]
4 =	4.[No Data!]
3 =	3.[No Data!]
2 =	2.[No Data!]
No. [1] =	[1.] [No Data!]

INITIALIZE

SETUP PGM ASGN CTL ASGN BULK

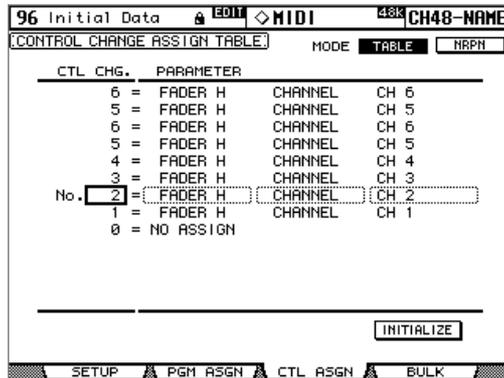
- 2 INC/DEC PGM CHG (Parameter wheel) Program Change
- 3 wheel) INC/DEC SCENE No/TITLE (Parameter wheel) Scene
- INITIALIZE [ENTER] Scene (Program Change Assign Table)

(Control Change)

(Parameter)

control MIDI Control Change DM2000 (Control Change)
 가 . DM2000 가 , (Control Change) 가 ,
 DM2000 가 . (Control Change)
 MIDI Setup parameter (184).
 (Parameter) (Control
 Change Assign Table)가 318 . MIDI (Bulk Dump)(187
) MIDI (Data filer) MIDI ,
 (231)

1 DISPLAY ACCESS [MIDI] Control Change Assign Table



2 MODE TABLE , [ENTER]
 TABLE , DM2000 , MIDI 가
 . NRPN , DM2000
 NRPN(Non Registered Parameter Number:)가 .
3 CTL CHG. (Parameter wheel)
INC/DEC Control Change
4 PARAMETER (Parameter wheel) INC/DEC
 128 가 MIDI (Control
 Change) 가 (Delay parameter)
 (Fader) L H (Delay Time parameter)
 LOW, MID, HIGH
 (Control Change) (, L H)
 INITIALIZE [ENTER] (Parameter)
 (Control Change Assign Table)

(Parameter Change)

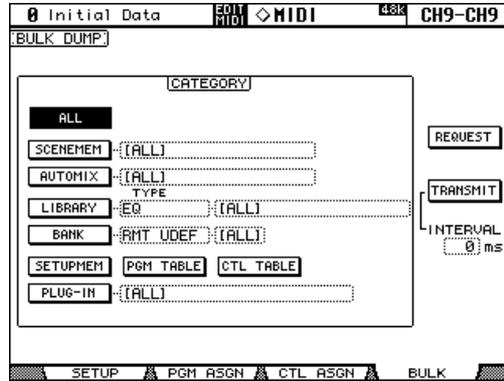
parameter control

(Parameter Change) DM2000
 . DM2000 ,
 (Parameter Change) 가 가 ,
 (Parameter Change) 가 , DM2000 가 .
 319 "MIDI " (Parameter Change)
 MIDI Setup parameter (184).

(Bulk Dump)

MIDI (Bulk Dump) MIDI (Data file) MIDI
DM2000

1 DISPLAY ACCESS [MIDI] Bulk Dump



2 , CATEGORY

, TRANSMIT [ENTER]

3 , CATEGORY

, REQUEST [ENTER]

INTERVAL (data packet)

CATEGORY

ALL:

SCENE MEM): Scene, Scene Scene(: (Edit buffer))

AUTOMIX: (Automix), (Automix)

(Automix)

LIBRARY: (EQ), (Gate), (Comp), (Channel), (Effect),

GEQ, Bus to Stereo, (Input Patch), (Output Patch),

(Surround Monitor)

(User Memory), (User Memory)

(Bus to Stereo), (Input Patch), (Output Patch),

(Surround Monitor)

BANK: (User Defined Remote Layer),

(User Defined Plug-In) (User Defined Key)

SETUP MEM: DM2000 (,)

PGM TABLE: Scene MIDI (MIDI Program Change table).

185 " (Program Change) (Scene) "

CTL TABLE: (Parameter) MIDI (MIDI Control Change

table). 186 " (Control Change) (Parameter)

"

PLUG-IN: Y56K (Slot) (Slot) 4-6

19 (Pro Tools Remote Layer)

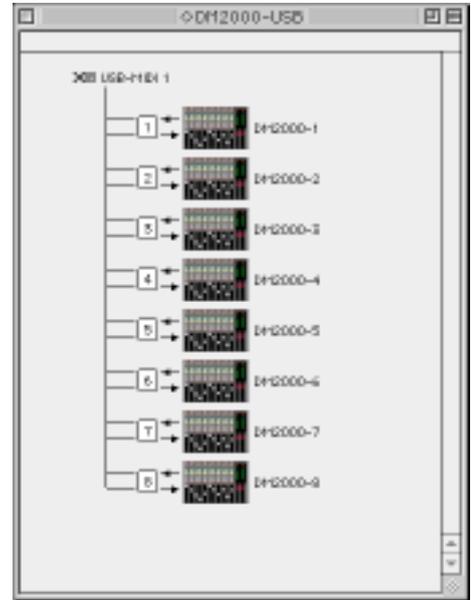
- DM2000 target) (Pro Tools) control (Remote Layer)
- MB2000 (meter) (Peak Meter Bridge)가 , (Pro Tools) , TIME CODE 가 .
- 1 PC**
 - PC RS232 TO HOST SERIAL PC USB TO
 - HOST USB , PC DM2000 . TO HOST SERIAL
 - (Parameter) PC-2 , MIDI/TO HOST Setup TO HOST SERIAL
 - (183) .
- 2**
 - PC DM2000 CD-ROM TO HOST SERIAL TO HOST
 - USB .
- 1**
 - TO HOST SERIAL
 - USB TO HOST USB , DM2000
 - TO HOST SERIAL , MIDI/TO HOST Setup TO
 - HOST SERIAL (Parameter) (183) .
- 2 OMS**
 - DM2000 OMS(Open Music System:) (Pro
 - Tools) . OMS가)
 - 가 . OMS가 가 , DM2000
 - CD-ROM . DM2000 CD-ROM
 - OMS .
- 3 Yamaha USB MIDI 1. 04**
 - TO HOST USB , DM2000 CD-ROM Yamaha USB MIDI

DM2000

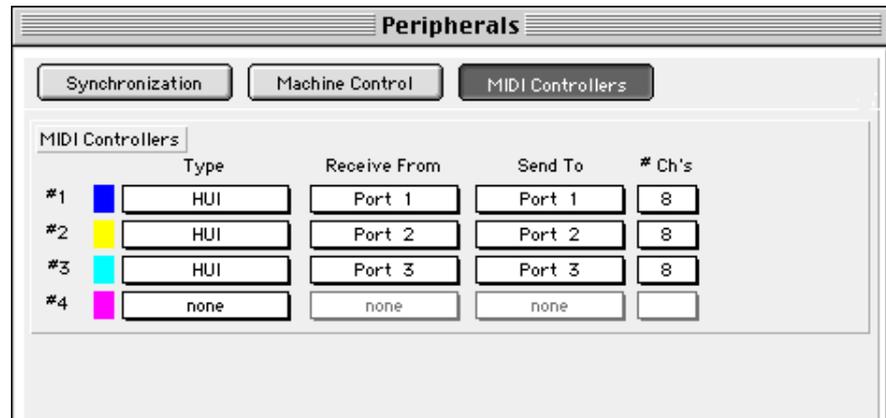
- 1 DISPLAY ACCESS [SETUP] MIDI/TO HOST Setup ,**
(Pro Tools)
183 "MIDI" "
- 2 DISPLAY ACCESS [REMOTE] Remote ,**
(Pro Tools)
217 " (Remote Layer) (Target) "
- 3 LAYER [REMOTE] (Pro Tools Remote Layer)**
 - (Pro Tools Remote Layer) , DM2000 control
 - DM2000 (Pro Tools) control . DM2000 control ,
 - (Input Channel Layer) (Master Layer)
 - (Pro Tools Layer) (Input & Master Layer)
 - (Audio Mixing) (Automix)

(Pro Tools)

- (Pro Tools)
- Tools)
- 1 (Pro Tools) 가
- 2 (Setup) OMS Studio Setup(OMS OMS
Yamaha USB MIDI 8
DM2000 OMS-
DM2000 CD-ROM



- 3 (Setup) Peripherals()
- 4 Peripherals , MIDI Controllers



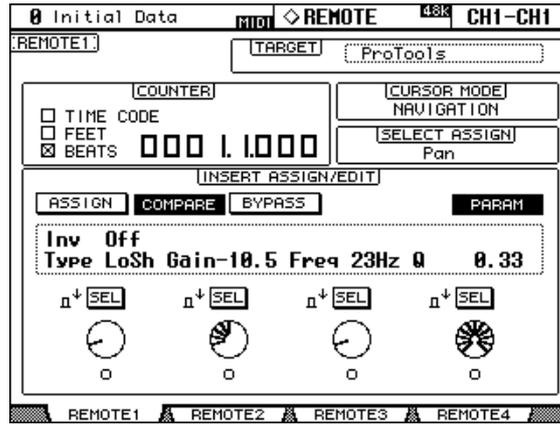
- 5 Controller HUI
- 6 Receive From Send To , OK
DM2000 8 MIDI Controller 3 (emulate)
. 8 MIDI 가 MIDI Controller 2
9-16 , MIDI Controller 3 17-24

(Pro Tools Remote Layer) Control

(Pro Tools Remote Layer) DM2000 control
 . DM2000 control DM2000
 (Pro Tools) , "MATRIX
 SELECT [MATRIX 1] (DEFAULT) " .
 , (Pro Tools) .

(Display)

(Pro Tools Remote Layer)

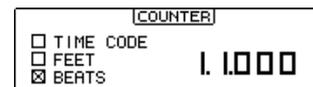


TARGET

(parameter) (target)
 , DISPLAY ACCESS() [REMOTE(
 Remote()
 217 " (Remote Layer) (Target) "

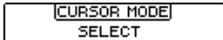
COUNTER

(Pro Tools) (timecode)
 counter) .
 (Pro Tools)
 가

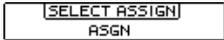


TIME CODE: "Time Code()" (Pro Tools)
FEET: "Feet:Frames" (Pro Tools)
BEATS: "Bars:Beats" (Pro Tools)
 (Pro Tools) "Minutes:Seconds" "Samples" ,

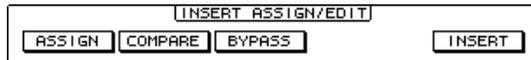
CURSOR MODE

NAVIGATION, ZOOM, SELECT 가
 [+/INC] (CURSOR MODE) 

SELECT ASSIGN

, Pan(PanR), SndA, 
 SndB, SndC, SndD, SndE .

INSERT ASSIGN/EDIT



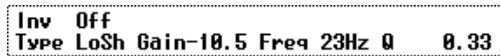
ASSIGN: EFFECTS/PLUG-INS [5] (ASSIGN) indicator indicator
 209 " / (Insert/Plug-in) "

COMPARE: EFFECTS/PLUG-INS(/) [6] (COMPARE:) indicator indicator
 indicator . 212 " (Plug-in) "

BYPASS: EFFECTS/PLUG-INS(/) [7] (BYPASS) indicator indicator
 indicator . 212 " (Plug-in) " 213
 " (Bypassing)"

INSERT: EFFECTS/PLUG-INS [8] (INSERT/PARAM) indicator indicator
 indicator . 212 " (Plug-in) "

INSERT/PARAM



(insert)

(Encoder)



Parameter Control 1-4 . SEL indicator Parameter
 Control (Push-switch) / . Rotary control
 indicator Parameter Control . Parameter Control "O"
 Parameter Control (Automation) .

(Channel Strip)



DM2000 Channel strip (Pro Tools) DM2000 Channel strip 1
 , 7† (Pro Tools)



Channel strip (Pro Tools) DM2000 Channel strip
 , (Pro Tools)



USER DEFINED KEYS (Pro Tools)
 (200) 24 (200)



(Encoder) - **(Push-switch)**
 (pan) (send level) , I/O (assignment)
 . (Encoder Push-switch) ,
 , I/O (assignment) .

(Encoder Mode)	(Encoder)	(Push-switch)
[PAN]	(Pan)(207)	(Pan) (214)
[SEND LEVEL]	(Send) (209)	(Send) (209) / (Pre/post) (208) (Send) (214)
[INPUT]	(Input) (205)	
[OUTPUT]	(Output) (206)	
[SEND ASSIGN]	(Send) (208)	
[INSERT]	/ (Insert/Plug-In) (211)	

[AUTO]
 (Automation) 217 " AUTOMIX (Automation) "

[SEL]
 (205) , (212)
 (insert) (213) .

[SOLO]
 solo 205 "
 (Soloing)" .

[ON]
 205 "
 (Muting)" .

Faders
 (fader) (206) Flip
 (210) .



(Channel strip display)



A u d 1

(Fluorescent Channel strip display)

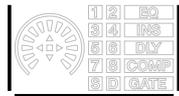
(Encoder)

(Pro Tools Remote Layer)

(Channel strip display)

(Pro Tools)

(Selected Channel)



가 가

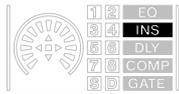
(Fader Touch Sense)



Fader knob

(Touch Sense) indicator가

(Insert) Indicator



INS indication

(Plug-In)

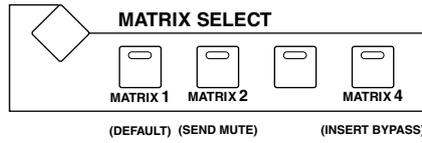
(Pan Display)



(Send Level)



MATRIX SELECT()



[MATRIX 1] (DEFAULT)

(fader), (panpot), (send) (plug-in) " (Fader),
 control 212
 (Send), (Panpot) (Plug-in) "

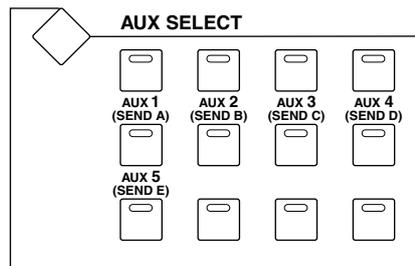
[MATRIX 2] (SEND MUTE)

207 " (Encoder Push-switch)
 (Muting)"

[MATRIX 4] (INSERT BYPASS)

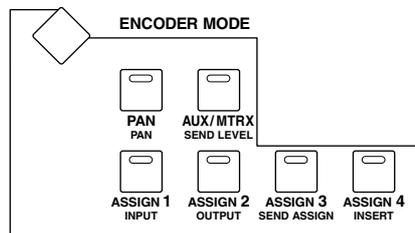
(Plug-In) control
 211 " (Bypassing)"

AUX SELECT()



AUX SELECT [AUX 1-5] A-E
 indicator 7†

ENCODER MODE()



[PAN] (PAN)

(Encoder) 7† (Channel panpot)
 indicator 7† 207 " (Panning)"

[AUX/MTRX] (SEND LEVEL)

(Encoder)가 Send level control (Encoder)가
indicator가 , A가 (Encoder)가
control , AUX SELECT [AUX 1-5](SEND A-E)
indicator가 .

[ASSIGN 1] (INPUT)

(channel input source) control
203 " (Input) "

[ASSIGN 2] (OUTPUT)

(channel output destination) control
206 " (Output) "

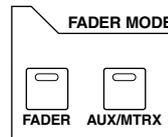
[ASSIGN 3] (SEND ASSIGN)

(send destination) control
208 " (Send Destination) "

[ASSIGN 4] (INSERT)

[SEL] indicator가 , [SEL]
(205) indicator가 , / (insert/
plug-in) (212) .

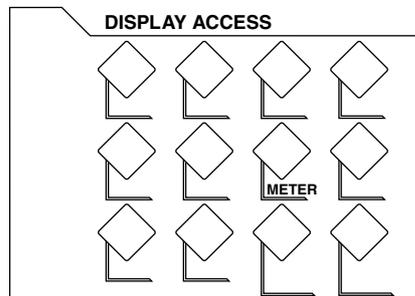
FADER MODE()



[FADER] [AUX/MTRX]

Flip , Flip (fader),
(encoder) [ON] control 208
" (Flip) "

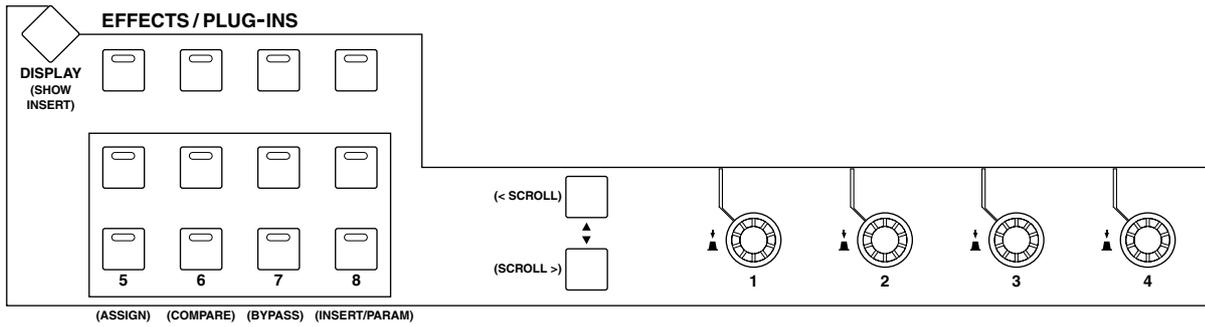
DISPLAY ACCESS()



[METER]

(Meter clip) indicator (Peak hold) indicator

EFFECTS/PLUG-INS(/)



[DISPLAY] (SHOW INSERT)

(Plug-In)

[5] (ASSIGN)

/ (Insert/Plug-in) control
 . 209 " / (Insert/Plug-in) "

[6] (COMPARE)

(Plug-in Edit)

210 " (Plug-in Edit)"

[7] (BYPASS)

(Plug-In)

" (Plug-in) " 213 " 212 (Bypassing)"

[8] (INSERT/PARAM)

control

" (Plug-in Edit)" . 210

(Parameter Up) (< SCROLL)

(Parameter Down)

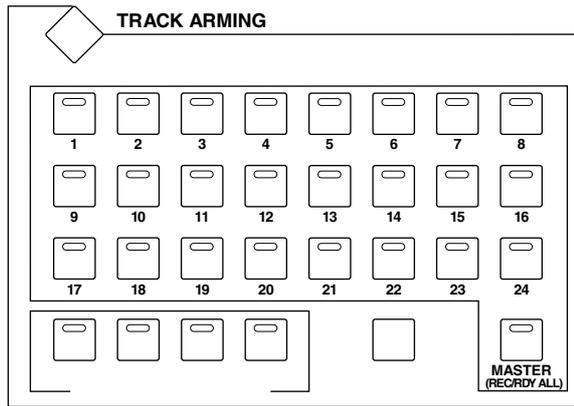
(SCROLL >)

(insert assign)

(Parameter)

" 210 " 209 " / (Insert/Plug-in)
 (Plug-in Edit)" .

TRACK ARMING()



[1-24] (REC/RDY)

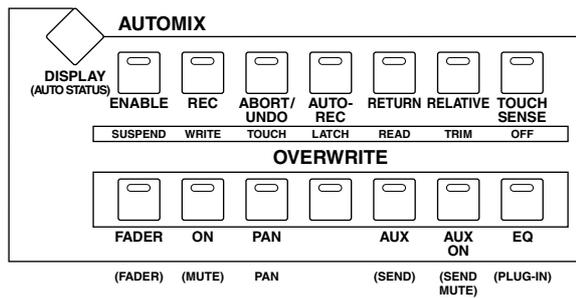
(Pro Tools) (arming) indicator가 , indicator가

[MASTER] (REC/RDY ALL)

(Pro Tools) (arming) indicator가 . indicator가 (Pro Tools) 가

...	
) ([MASTER] (REC/RDY ALL)	USER DEFINED KEYS [5]+TRACK ARMING [1-24]
	USER DEFINED KEYS [5]+USER DEFINED KEYS [4]+TRACK ARMING [1-24]

AUTOMIX()



[DISPLAY] (AUTO STATUS)

, (Automation) 가 Channel strip display 215 " (Automation) "

[ENABLE] (SUSPEND)

(Automation) (Automation) indicator가 (Automation)

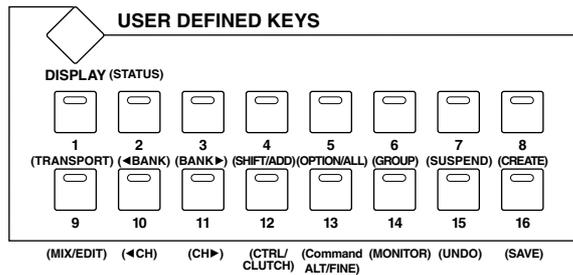
[REC] (WRITE), [ABORT/UNDO] (TOUCH), [AUTOREC] (LATCH), [RETURN] (READ),
[RELATIVE] (TRIM) [TOUCH SENSE] (OFF)

(Automation)
217 " (Automation) "

OVERWRITE [FADER] (FADER), [ON] (MUTE), [PAN] (PAN), [AUX] (SEND),
[AUX ON] (SEND MUTE) [EQ] (PLUG-IN)

(Automation) (Parameter)
218 " (Automation
Parameter Arming)"

USER DEFINED KEYS()



[DISPLAY] (STATUS)

Session Setup

[1] (TRANSPORT)

Transport . Transport indicator가

[2] (< BANK) [3] (BANK >)

24

[4] (SHIFT/ADD) [5] (OPTION/ALL)

Shift() Option()

[6] (GROUP)

ID가 Channel strip display

[7] (SUSPEND)

() indicator가

[8] (CREATE)

((Pro Tools) -G).

[9] (MIX/EDIT)

Mix Edit

[10] (< CH) [11] (CH >)

[12] (CTRL/CLUTCH) [13] (Command-ALT/FINE)

Control Command

[14] (MONITOR)

(Pro Tools)

"Auto Input Monitor" , "Auto"가 "Input
Only Monitor" , "Inpt" (Aux Input Channel)
"AUX" (Master Fader Channel) "Mstr"
MIDI "MIDI"

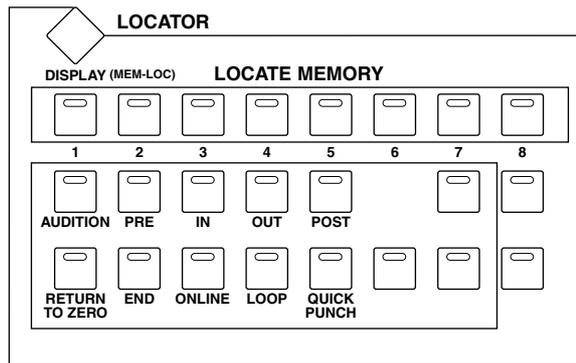
[15] (UNDO)

가 indicator가 , 가 indicator가

[16] (SAVE)

indicator가 (,)
indicator가 , [ESC]

LOCATOR()



[DISPLAY] (MEM-LOC)

Memory Location Window

LOCATE MEMORY [1-8]

1-8
(Pro Tools) "Classic" (,),
(marker) 1-8

[AUDITION]

- [PRE], [IN], [OUT], [POST]
indicator가 ,
- [PRE] , - (pre-roll) In
 - [IN] , In - (pre-roll time)
 - [OUT] , Out - (post-roll time)

- [POST] time) , Out (post-roll time) .

[PRE] [POST]
 - (pre-roll indicator가 , - (post-roll) . [AUDITION]

[IN] [OUT]
 In Out . [AUDITION]
 indicator가 , .

[RETURN TO ZERO]
 가 .

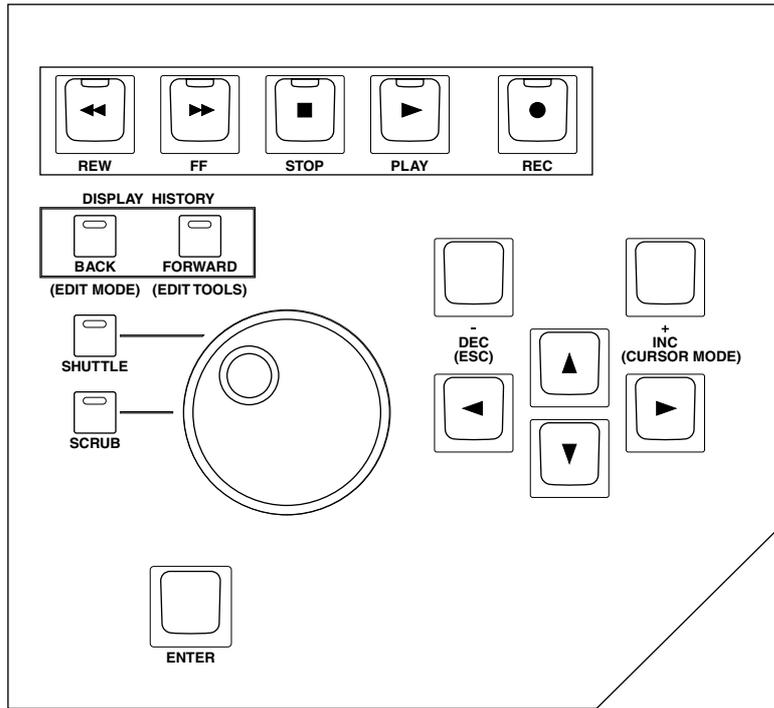
[END]
 가 .

[ONLINE]
 (Pro Tools) . (Pro Tools)가 indicator가 (

[LOOP]
 , indicator가 (. [QUICK PUNCH],
 [SHUTTLE], [SCRUB] .

[QUICK PUNCH]
 indicator가 . ([LOOP], [SHUTTLE], [SCRUB]) .

Data Entry & Transport()



[REW] 가 ((non-latching)).

[FF] 가 ((non-latching)).

[STOP]

[PLAY]

[REC] (Pro Tools) ([REC] indicator가),
[PLAY] ([REC] indicator가).

[BACK] (EDIT MODE)
(Shuffle), (Slip), (Spot), (Grid)

[FORWARD] (EDIT TOOLS)
(Zoomer), (Trimmer), (Selector), (Grabber), (Smart-Tool), (Scrubber), (Pencil)

Parameter Wheel()
(shuttling) (scrubbing) (Parameter Wheel)
(216). (215).

[SHUTTLE] [SCRUB]

(Shuttle mode) (Scrub mode)
216 " (Scrub) (Shuttle)"
[QUICK PUNCH] [LOOP]

[ENTER]

(New Memory Location) 가 가
, OK

[-/DEC] (ESC)

, ESC 가
, Cancel

[+ /INC] (CURSOR MODE)

(Navigation, 214), (Zoom, 215), (Select, 215)

Cursor

Mix Edit (205), (214
, (zooming) (215),
(215)

Mix Edit

(left)	USER DEFINED KEYS [13]+
(right)	USER DEFINED KEYS [13]+
(up)	USER DEFINED KEYS [13]+
(down)	USER DEFINED KEYS [13]+
(beginning)	USER DEFINED KEYS [5]+USER DEFINED KEYS [13]+
(end)	USER DEFINED KEYS [5]+USER DEFINED KEYS [13]+
(top)	USER DEFINED KEYS [5]+USER DEFINED KEYS [13]+
(bottom)	USER DEFINED KEYS [5]+USER DEFINED KEYS [13]+

- (ENCODER MODE [ASSIGN 4] (INSERT) .)
- 1 [SEL] indicator가 Channel strip display 가
(border)
 - 2 8 (, 1-8, 9-16 17-24),
[SEL] 가

...	
	USER DEFINED KEYS [4]+[SEL]
	USER DEFINED KEYS [5]+[SEL]
	USER DEFINED KEYS [13]+[SEL]

(Input)

- (Input source) (channel)
(Pro Tools)
- ENCODER MODE [ASSIGN 1] (INPUT) , Channel strip display
(input source assignment)
- 1 ENCODER MODE [ASSIGN 3](SEND ASSIGN)
indicator가 , SELECT ASSIGN "ASGN"
 - 2 ENCODER MODE [ASSIGN 1](INPUT)
indicator가 , Channel strip display (input source)가
 - 3 (Encoder) (input source)
Channel strip display
, Channel strip display
 - 4 channel strip display ring (Encoder Push-switch)

가 .

...	
(input source)	ENCODER MODE [ASSIGN 3], ENCODER MODE [ASSIGN 1], , USER DEFINED KEYS [5]+ (Encoder Push-switch)
source)	(input source) ENCODER MODE [ASSIGN 3], ENCODER MODE [ASSIGN 1], , USER DEFINED KEYS [5]+USER DEFINED KEYS [4]+ (Encoder Push-switch)

[-/DEC] (ESC)

(Output)

(output destination) (channel)
(Pro Tools)

ENCODER MODE [ASSIGN 2] (OUTPUT),
(output destination assignment)

1 ENCODER MODE [ASSIGN 3](SEND ASSIGN)

indicator가 , SELECT ASSIGN "ASGN"

2 ENCODER MODE [ASSIGN 2](OUTPUT)

indicator가 , Channel strip display (output destination)

3 (Encoder) (output destination)

Channel strip display
, Channel strip display

4 (Encoder Push-switch)

Channel strip display ring
가 .

...	
destination)	(output ENCODER MODE [ASSIGN 3], ENCODER MODE [ASSIGN 2], , USER DEFINED KEYS [5]+ (Encoder Push-switch)
destination)	(output ENCODER MODE [ASSIGN 3], ENCODER MODE [ASSIGN 2], , USER DEFINED KEYS [5]+USER DEFINED KEYS [4]+ (Encoder Push-switch)

[-/DEC] (ESC)

(Channel Level)

(FADER MODE [FADER] [AUX/MTRX] indicator가 .)

1 (Fader) (channel level)

(mix group) control . USER DEFINED KEYS [12](CTRL/CLUTCH),

strip display USER DEFINED KEYS [13] (ALT/FINE) , Channel
dB

(Muting)

- 1 [ON] indicator가
- 2 [ON] 가 indicator가 . USER DEFINED KEYS [12] (CTRL/CLUTCH)

...	
	USER DEFINED KEYS [5]+[ON]
	USER DEFINED KEYS [5]+USER DEFINED KEYS [4]+[ON]

(Panning)

- 1 ENCODER MODE [PAN] (PAN) indicator가
- 2 (encoder) Channel strip display (pan position)가 193 " (Pan Display)" USER DEFINED KEYS [13] (ALT/FINE) Channel strip display (Stereo Aux Input Channel) (, (panpot)가), ENCODER MODE [PAN] (PAN) 가 , ENCODER MODE [PAN] (PAN) indicator가 SELECT ASSIGN "Pan" 가 , ENCODER MODE [PAN] (PAN) indicator가 SELECT ASSIGN "PanR"

(Soloing)

- 1 [SOLO()] solo indicator [SOLO] indicator [ON]
- 2 [SOLO] solo가 solo . USER DEFINED KEYS [12](CTRL/ CLUTCH)

(Send Destination)

- (output destination)
(Pro Tools)
AUX SELECT [AUX 1-5](SEND A-E) , Channel strip display
(output destination assignment)
- 1 **ENCODER MODE [ASSIGN 3](SEND ASSIGN)**
indicator가 , SELECT ASSIGN "ASGN"
- 2 **AUX SELECT [AUX 1-5](SEND A-E)**
indicator가 , Channel strip display
(send destination) , "-"
- 3 **(encoder) (send destination)**
Channel strip display
Channel strip display ring (stereo send destination)
- 4 **(Encoder Push-switch)**
Channel strip display ring
가

...	
destination) (send	ENCODER MODE [ASSIGN 3], AUX SELECT [AUX 1-5], USER DEFINED KEYS [5]+ (Encoder Push-switch)
destination) (send	ENCODER MODE [ASSIGN 3], AUX SELECT [AUX 1-5], USER DEFINED KEYS [5]+USER DEFINED KEYS [4]+ (Encoder Push-switch)

[-/DEC] (ESC)

(Pre)

(Post)

- (pre) (post)
(MATRIX SELECT [MATRIX 2] (SEND MUTE)
- 1 **AUX SELECT [AUX 1-5](SEND A-E)**
ENCODER MODE [AUX/MTRX](SNED LEVEL) indicator가 ,
indicator
- 2 **(Encoder Push-switch) (pre) (post)**

(Send Level)

- 1 **AUX SELECT [AUX 1-5](SEND A-E)**
 ENCODER MODE [AUX/MTRX](SEND LEVEL) indicator가 ,
 indicator
 Channel strip display 195 "
 (Send Level)"
- 2 **(Encoder) (Send Level)**
 USER DEFINED KEYS [13] (ALT/FINE) , Channel
 strip display dB
 Flip (fader) (send level)
 208 " (Flip) "

(Muting)

- 1 **MATRIX SELECT [MATRIX 2] (SEND MUTE)**
- 2 **AUX SELECT [AUX 1-5](SEND A-E)**
 ENCODER MODE [AUX/MTRX](SEND LEVEL) indicator가 ,
 indicator
- 3 **(Encoder Push-switch)**
 , Channel strip display
 Flip [ON] 208
 " (Flip) "

(Panning)

(stereo destination) . Flip mode
 208 "Flip "

(Flip)

Flip control, [ON]

Fader()		
Encoder()	/	
[ON()]		

- 1 **FADER MODE [FADER] [AUX/MTRX]**
 FADER MODE [FADER] [AUX/MTRX] indicator가, ENCODER MODE [PAN] (PAN) [AUX/MTRX] (SEND LEVEL) indicator가 SELECT ASSIGN "FLIP".
- 2 **AUX SELECT [AUX 1-5](SEND A-E)**
 indicator가.
- 3 **(Fader), (Encoder) [ON] control**
 (Stereo Aux Input Channel) (panpot)가), ENCODER MODE [PAN] (PAN) indicator가, ENCODER MODE [PAN] (PAN) indicator가, ENCODER MODE [PAN] (PAN) indicator가.

/ (Insert/Plug-in)

- (Channel) (Insert) .
(Pro Tools) .
- 1 **ENCODER MODE [ASSIGN 4](INSERT)** .
indicator가
- 2 **[SEL] (insert assign)** .
INSERT/PARAM . Pro Tools Mix
가 가
- 3 **EFFECTS/PLUG-INS [5] (ASSIGN)** .
indicator가 , ASSIGN indicator .
- 4 **Parameter Control 1-4 / (Insert/Plug-in)** .
/ (Insert/Plug-in) .
/ (Insert/Plug-in) , SEL .
- 5 , **Parameter Control (Push-switch)**
SEL .
EFFECTS/PLUG-INS [5] (ASSIGN) indicator가 , /
(Insert/Plug-in) . 5 , Parameter
Down() (SCROLL >) . 1-4 , Parameter
Up() (< SCROLL) .
/ (Insert/Plug-in) , [SEL]
EFFECTS/PLUG-INS [5] (ASSIGN)
/ (Insert/Plug-in) , USER DEFINED KEYS
[5] (OPTION/ALL) , parameter control (Push-switch)
(가 가 CPU) .
/ (Insert/Plug-in) , [SEL]
ENCODER MODE [ASSIGN 4] (INSERT)
(indicator) . 205 , EFFECTS/PLUG-INS [5]
(ASSIGN) . indicator가 , Parameter Control 1-4
/ (Insert/Plug-in) , USER DEFINED KEYS [5] (OPTION/ALL)
USER DEFINED KEYS [4] (SHIFT/ADD) , Parameter Control
(Push-switch) (가 가 CPU) .
[-/DEC] (ESC) .

(Plug-in Edit)

(Plug-in)
 (MATRIX SELECT [MATRIX 4] (INSERT BYPASS)
 .)

1 ENCODER MODE [ASSIGN 4](INSERT)

indicator가 [SEL] Insert Select

2 [SEL] (Plug-in)

[SEL] indicator가 , Pro Tools Mix()
 가 가
 INSERT ASSIGN/EDIT

3 Parameter Control 1-4 (Push-switch)

Plug-in Edit() 가 (Parameter)가
 INSERT ASSIGN/EDIT . EFFECTS/PLUG-INS [8] (INSERT/PARAM)
 indicator가 PARAM indicator가

4 Parameter Control 1-4 (Push-switch)

(Parameter) (Push-switch)
 Parameter Control

5 Parameter Down() (SCROLL >) Parameter Up() (Parameter Page)

Parameter Page ,
 가 , "1/2" 가
 "3/4" 가

, EFFECTS/PLUG-INS [7] (BYPASS)
 BYPASS indicator가

, COMPARE indicator가
 EFFECTS/PLUG-INS [6] (COMPARE)
 COMPARE indicator가

6 , EFFECTS/PLUG-INS [8] (INSERT/ PARAM)

(indicator), [SEL] (2),
Parameter Control 1-4 (Push-switch)
 (3).

(Bypassing)

- (EFFECTS/PLUG-INS [8] (INSERT/PARAM)
.)
- 1 **ENCODER MODE [ASSIGN 4](INSERT)**
indicator가
 - 2 **[SEL] (plug-in)**
 - 3 **EFFECTS/PLUG-INS [7] (BYPASS) , Parameter Control 1-4**
(Push-switch)
5 , Parameter Down() (SCROLL >)
, 3 1-4 Parameter Up()
(< SCROLL)
"d-verb" , "D-Verb"가
"D-VERB"

(Bypassing)

- 1 **MATRIX SELECT [MATRIX 4] (INSERT BYPASS)**
indicator가
Channel strip display INS indicator가
INS indicator= :
INS indicator= :
INS indicator= :
- 2 **ENCODER MODE [ASSIGN 4](INSERT)**
indicator가
- 3 **[SEL]**
가

...	
	MATRIX SELECT [MATRIX 4], ENCODER MODE [ASSIGN 4], USER DEFINED KEYS [5]+[SEL]
	MATRIX SELECT [MATRIX 4], ENCODER MODE [ASSIGN 4], USER DEFINED KEYS [5]+USER DEFINED KEYS [4]+[SEL]

(Fader), (Send), (Panpot) (Plug-in)

(fader), (panpot), (send) (plug-in)
control , "0" ,

ENCODER MODE [ASSIGN 4] (INSERT)

...	
	[MATRIX 1]+[SEL]
	USER DEFINED KEYS [5]+[MATRIX 1]+[SEL]
	USER DEFINED KEYS [5]+USER DEFINED KEYS [4]+[MATRIX 1]+[SEL]
	[PAN], [MATRIX 1]+[ENCODER push]
	[PAN], USER DEFINED KEYS [5]+[MATRIX 1]+[ENCODER push]
	[PAN], USER DEFINED KEYS [5]+USER DEFINED KEYS [4]+[MATRIX 1]+[ENCODER push]
	AUX SELECT [AUX 1-5], [MATRIX 1]+[ENCODER push]
	AUX SELECT [AUX 1-5], USER DEFINED KEYS [5]+[MATRIX 1]+[ENCODER push]
	AUX SELECT [AUX 1-5], USER DEFINED KEYS [5]+USER DEFINED KEYS [4]+[MATRIX 1]+[ENCODER push]
	[MATRIX 1]+EFFECTS PLUG-INS [6]

[MATRIX 1] (DEFAULT) , indicator가 SELECT ASSIGN
"DFLT"

[MATRIX 1] (DEFAULT) USER
DEFINED KEYS [12] (CTRL/CLUTCH)

(Edit Window Navigation)

Edit

1 **[+]/INC] (CURSOR MODE) (Navigation Cursor)**

CURSOR MODE "NAVIGATION"

2 (marker) ,

3 (marker) ,

가

...	
	USER DEFINED KEYS [4]+
	USER DEFINED KEYS [12]+
	USER DEFINED KEYS [12]+
	USER DEFINED KEYS [5]+ (LOCATE MEMORY [IN])
	USER DEFINED KEYS [5]+ (LOCATE MEMORY [OUT])

(Zooming)

- 1 **[+/INC] (CURSOR MODE)** (Zoom Cursor)
- CURSOR MODE "ZOOM"
- (Zoom Cursor mode)
- :
- :
- Up :
- Down :

(Parameter Wheel)

- 1 **[+/INC] (CURSOR MODE)** Select
- CURSOR MODE "SELECT"
- 2 **In** (Parameter Wheel)
- 3 **Out** (Parameter Wheel)
- 가

...	
In	
Out	

Navigation Select

...	
/	Down
/	Up
	USER DEFINED KEYS [4]+
	USER DEFINED KEYS [4]+
	USER DEFINED KEYS [5]+
	USER DEFINED KEYS [5]+
(가)	Wheel + + (Parameter)

- (Scrub) (Shuttle)**
 (Parameter Wheel)
- 1 **(Pro Tools)**
 - 2 **[SCRUB]** , **[SHUTTLE]**
 - 3 **(Parameter Wheel)** /
 indicator가 . [REW] [FF] indicator , 가
 Navigation (CURSOR MODE "NAVIGATION" .
 / In ,
 가 . USER DEFINED KEYS [5] (OPTION/ ALL) [SCRUB]
 [SHUTTLE] , / Out .
 (,) Edit Insertion Follows
 Scrub/Shuttle(/) , [SCRUB]
 [SHUTTLE] .
 , USER DEFINED KEYS [4] (SHIFT/ ADD) [SCRUB]
 [SHUTTLE] .
 [SCRUB] [SHUTTLE] ,
 - 4 , **USER DEFINED KEYS [4] (SHIFT/ADD)**
(Parameter Wheel) .
 (in point) . Out
 / , USER DEFINED KEYS [5]
 (OPTION/ALL) , 가 ,
 / , USER DEFINED KEYS [5] (OPTION/ALL)
 - 5 / , **[SCRUB]** **[SHUTTLE]** ,
[STOP] .
 [REW], [FF] [PLAY] , 가 , 가
 / .
 / , (Pro Tools)/DM2000 control , [SCRUB]
 [SHUTTLE] , (Parameter Wheel), (Send) , (Fader), [ON]
 [SOLO] . [ENTER]
 (marker) .
 (zoom) , 가
 . USER DEFINED KEYS [13] (ALT/FINE) ,

(Automation)

(Automation Mode)

(Automation Mode)

- 1 **[AUTO]** .
 [AUTO] , Channel strip display (Automation)
 가 .

(Pro Tools)	Channel strip display	[AUTO] indicator
	Wrt	()
	Tch	
	Ltch	
	Read	
	Off	

(Automation)

- 2 **AUTOMIX [DISPLAY] (AUTO STATUS)** .

AUTOMIX [DISPLAY] (AUTO STATUS) ,
 (Automation) 가 Channel strip display .

(Automation)

(Automation)

- 1 **[AUTO]** , **AUTOMIX [WRITE], [TOUCH], [LATCH],**
[TRIM], [READ] [OFF] .
 [AUTO] , Channel strip display (Automation
 mode)가 .
 . USER DEFINED KEYS [12](CTRL/CLUTCH)
 ,
 가 .

...	
(Automation mode)	USER DEFINED KEYS [5]+AUTOMIX [WRITE], [TOUCH], [LATCH], [TRIM], [READ] [OFF]
(Automation mode)	USER DEFINED KEYS [5]+USER DEFINED KEYS [4]+AUTOMIX [WRITE], [TOUCH], [LATCH], [TRIM], [READ] [OFF]

(Trim Mode)

(Trim mode)

- 1 **[AUTO]** , **AUTOMIX [RELATIVE] (TRIM)**
 [AUTO] , Channel strip display (Automation mode)가

(Pro Tools)	Channel strip display	[AUTO] indicator
/	TWrt	/ ()
/	TTch	
/	TLch	
/	TRd	

. USER DEFINED KEYS [12] (CTRL/CLUTCH)

가

...	
(trim mode)	USER DEFINED KEYS [5]+AUTOMIX [RELATIVE]
(trim mode)	USER DEFINED KEYS [5]+USER DEFINED KEYS [4]+AUTOMIX [RELATIVE]

Trim mode , (fader) (encoder) USER DEFINED KEYS [13] (FINE) , Channel strip display ()

(Automation Parameter Arming)

(Automation)

- 1 **AUTOMIX-OVERWRITE** (arming)

AUTOMIX-OVERWRITE	(Pro Tools)
[FADER] (FADER)	
[ON] (MUTE)	
[PAN] (PAN)	
[AUX] (SEND)	
[AUX ON] (SEND MUTE)	
[EQ] (PLUG-IN)	

indicator가

가

...	
	(-) [FADER], [ON], [PAN], [AUX ON], [EQ]
	USER DEFINED KEYS [13]+AUTOMIX-OVERWRITE [FADER], [ON], [PAN], [AUX], [AUX ON] [EQ]

20 (Remote Control)

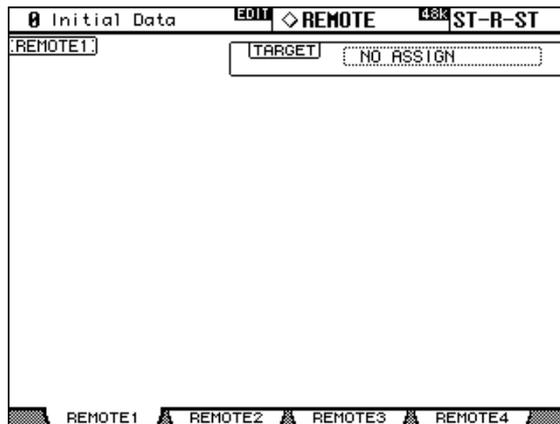
(Remote Layer)

DM2000 4 (Remote Layer) MIDI DM2000
 control . control (,)
 (Remote Layer) (User Defined),
 (Nuendo), (Pro Tools) 가 (User
 Defined target) 24 (24 channel strip fader), (encoder) [ON]
 MIDI
 (snapshot-style automation) (Nuendo)
 (Pro Tools) (Pro Tools) control

(Remote Layer) (Target)

(Remote Layer) (Target)

- 1 DISPLAY ACCESS [REMOTE] Remote 1-4



- 2 **TARGET** (Parameter Wheel) **INC/DEC** (target) , [ENTER]

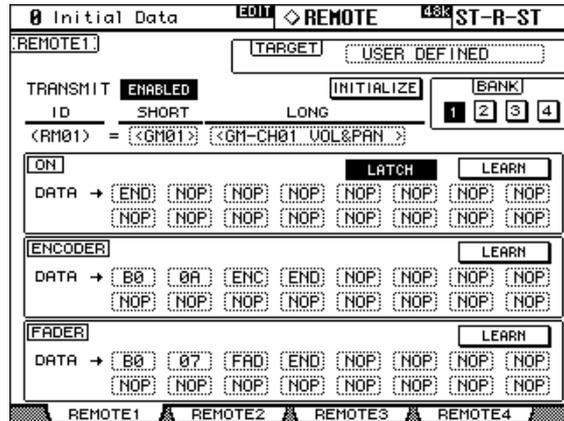
TARGET: NO ASSIGN, USER DEFINED, (Nuendo) (Pro Tools)
 (Nuendo) (Pro Tools)
 (Remote Layer) (User Defined target)
 218 (Pro Tools target)
 188

(User Defined Remote Layer)

(User Defined Remote Layer)

1 DISPLAY ACCESS [REMOTE]

Remote 1-4



2

[ENTER] (parameter wheel) INC/DEC

TARGET: (Remote Layer) (

TRANSMIT: (Remote Layer) MIDI 가

INITIALIZE:

BANK: 1, 2, 3, 4 24 (24 fader), (encoder) [ON] MIDI . MIDI (Bulk Dump)(187) MIDI (Data filer) MIDI , (231)

ID/SHORT/LONG: (Remote Layer) , Channel strip 1-24가 RM01-RM24 ID . Channel strip display , SHORT LONG , [SEL] , (parameter wheel) INC/DEC Channel strip , [ENTER] . Title Edit , OK . 38 " (Title Edit Window)"

ON: [ON] MIDI (16) . [SEL] channel strip , .00 FF , [ON] , [ON] 7F가 , [ON] . SW .END .NOP 가 00

UNLATCH/LATCH: (latching) (non-latching) [ON] (parameter) . UNLATCH , ON() , OFF() . LATCH , ON , OFF .

LEARN: (Learning) , MIDI control (parameter) MIDI 가 DATA (Status bit) 16

ENCODER: (Encoder) MIDI (16)
 (parameter) .[SEL] Channel strip
 .00 FF (Encoder) 0-127
 .ENC (Encoder) .END

NOP 가
LEARN: MIDI 가 ENCODER DATA
 [ON] (Learn)

FADER: (Fader) MIDI (16)
 (parameter) .[SEL] channel strip
 .00 FF (Fader)
 .FAD 0-127 (Fader)
 .END .NOP 가

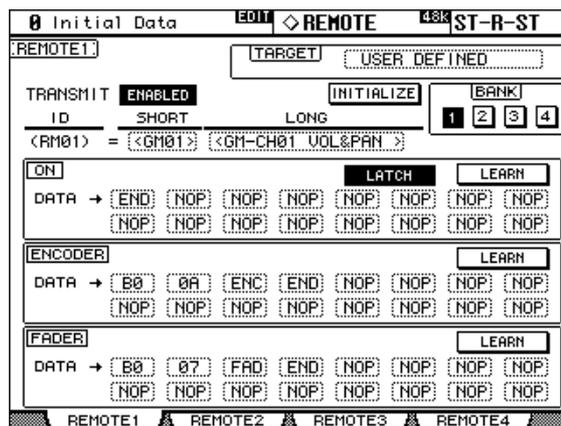
LEARN: MIDI 가 FADER DATA
 [ON]

(User Defined Remote Layer)

(User Defined Remote Layer)

1 LAYER REMOTE [1-4] Remote Layer)

(User Defined



(User Defined Remote Layer)

(channel strip fader), (Encoder) [ON] MIDI 가

(User Defined Remote Layer)

가 DISPLAY ACCESS [REMOTE]

(User Defined Remote Layer)

가

(User Defined Remote Layer)

Channel strip display Remote channel strip

Channel strip display 가 가

(Encoder display)

(Channel Strip Fader), (Encoder) [ON]



GM01

(Remote Layer)

Scene .Scene (recall) (Remote Layer)

Scene (fader), (encoder) [ON]

MIDI 가 (TRANSMIT 가 ENABLED

), (fader), (Encoder) [ON]

,MIDI

(MMC P2)

DM2000 MMC P2 control 8
 (Transport), (Locate function), (Track arming),
 (target function) control MTR
 control

P2 9 (9-pin straight cable) DM2000
 REMOTE control 315
 REMOTE Remote Port Setup P2 (221)
 MMC DM2000 MIDI, SERIAL, USB SLOT1 (1
 mLAN I/O) control
 MMC P2

(Machine Configuration)

8

1 LOCATOR [DISPLAY] Machine Configuration ()

0 Initial Data						
MIDI ◇ LOCATOR CH1-CH1						
MACHINE CONFIGURATION:						
MACHINE	TYPE	PORT	DEVICE ID	TRANSPORT CONTROL	CHASE CONTROL	MASTER /MTR
1	NONE	-	-	DISABLED	DISABLED	MTR
2	NONE	-	-	DISABLED	DISABLED	MTR
3	NONE	-	-	DISABLED	DISABLED	MTR
4	NONE	-	-	DISABLED	DISABLED	MTR
5	NONE	-	-	DISABLED	DISABLED	MTR
6	NONE	-	-	DISABLED	DISABLED	MTR
7	NONE	-	-	DISABLED	DISABLED	MTR
8	NONE	-	-	DISABLED	DISABLED	MTR

2 (Parameter wheel) INC/DEC , [ENTER]

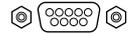
TYPE: MMC P2 P2
PORT: TYPE MMC , MMC
 가 , MIDI, SERIAL 1-8, USB 1-8
DEVICE ID: TYPE MMC , 1 127 ID
 ALL (Target machine) ID
 SERIAL, USB SLOT1 ID
TRANSPORT CONTROL: DM2000 (Machine control)
 (parameter) MTR 가
CHASE CONTROL: LOCATOR [ONLINE] DM2000 Chase
 On/Off(/)
MASTER/MTR: MTR
 MTR

REMOTE

P2

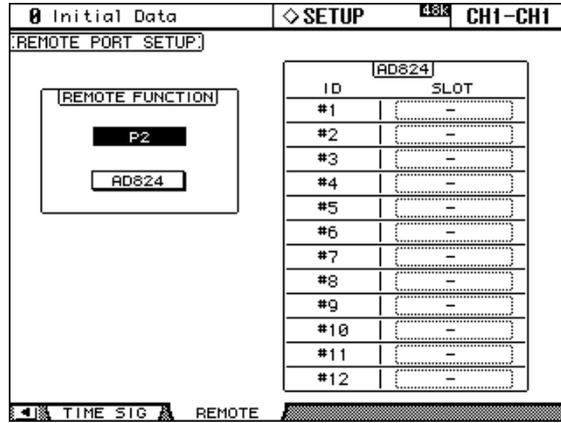
REMOTE

REMOTE



1 DISPLAY ACCESS [SETUP]

Remote Port Setup(



2

REMOTE FUNCTION P2

, [ENTER]

(Transport)

DM2000

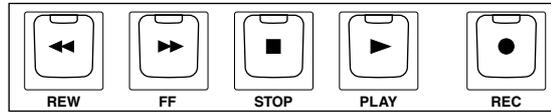
Machine Configuration

가

. Transport control

(220

).



[REW]

가

[FF]

가

[STOP]

[PLAY]

(punch out)

[REC()]

가

[PLAY]

. [REC]

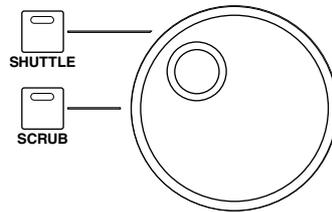
(Shuttle)

(Scrub)

(Parameter wheel)

(Shuttle)

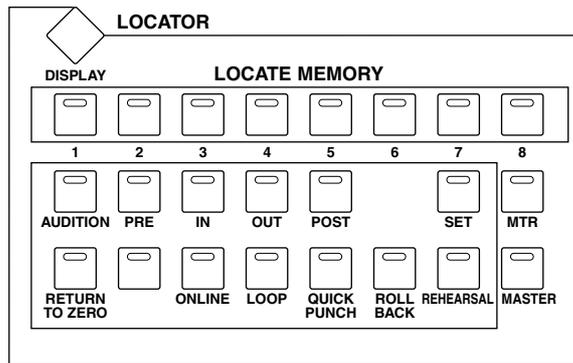
(Scrub)



[SHUTTLE] indicator가 , (Parameter wheel)
 . [SCRUB] indicator가 , (Parameter wheel)
 . (Parameter wheel)
 / (shuttle/scrub) /
 (shuttle/scrub)
 LOCATOR [QUICK PUNCH] [LOOP]

(Locator)

LOCATOR control



LOCATE MEMORY [1-8]

8 (Locate Memory)
 Locate Memory (Locate Memory) (224)
), (Locate Memory), [SET]
 , LOCATE MEMORY [1-8] DM2000
 (timecode)

P2 , REMOTE (time counter)
 . MB2000 (Peak Meter Bridge)
 ,DM2000 (timecode source)

[AUDITION]

[PRE], [IN], [OUT], [POST]
 indicator가 ,
 • [PRE] - (Pre-roll point)
 • [IN] In
 • [OUT] Out
 • [POST] - (Post-roll point)

[PRE] [POST]

- (Pre-roll point) - (Post-roll point)
 . [AUDITION] indicator가 ,
 - (Pre-roll point) In - . -
 (Post-roll point) Out - (Post-roll)
 - (Pre-roll) - (Post-roll) Locate Memory
 (224). ,

[IN] [OUT]

In Out . Locate Memory
 (224). ,

[SET] , [IN] [OUT] . DM2000
 (timecode) 가 ,
 . [AUDITION] indicator가 ,

[SET]

LOCATE MEMORY [1-8], [IN], [OUT] [RETURN TO ZERO]
 (locate point) .

[RETURN TO ZERO]

0 . Locate Memory
 (224). , [SET]
 , [RETURN TO ZERO] . DM2000
 (timecode) , [RETURN TO ZERO]
 가 ,

[ONLINE]

indicator가 가
 Machine Configuration 가
 (220).
 가 (timecode source)
 , [SHUTTLE], [SCRUB], [PRE], [POST], [IN], [OUT], [RETURN TO ZERO], [LOOP],
 [QUICK PUNCH] DM2000 control .

[LOOP]

- (Pre-roll point) - (Post-roll point)
 (Loop playback) .
 indicator가 , - (Post-roll point)
 (Loop playback) .
 [QUICK PUNCH], [SHUTTLE], [SCRUB] .

[QUICK PUNCH]

() . (quick punch)
 indicator가 .
 [LOOP], [SHUTTLE], [SCRUB] .

- [QUICK PUNCH] indicator가 , [PLAY] - 가
(Pre-roll point) (Pre-roll point) (Post-roll point) , 가
- [QUICK PUNCH] , [PLAY] [REC] -
(Pre-roll point) (In point) , 가
(Input monitor) . Out 가
(playback monitor) (Post-roll point)
가 - [REHEARSAL]
indicator가 , In Out 가 Record-Rehearsal
(,)

[ROLL BACK]

Locate Memory (224)
) , 가 .
, 가 .

[REHEARSAL]

Rehearsal indicator가
[PLAY] [REC] ,
Record-Rehearsal (Quick Punch)
(Rehearsal)

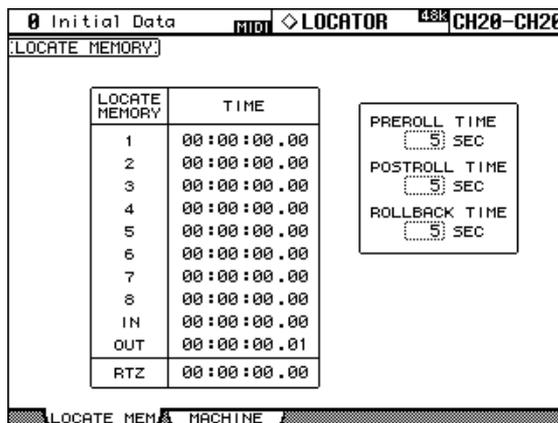
[MTR] [MASTER]

, LOCATOR control MTR
(Master machine) . [MTR] , LOCATOR MTR
control . [MASTER] , LOCATOR MASTER
control . 220 " (Machine Configuration)"

**(Locate Memory), - (Pre-roll), - (Post-
roll) - (Roll-back)**

- (Pre-roll), - (Post-roll) - (Roll-back)

1 LOCATOR [DISPLAY] Locate Memory()



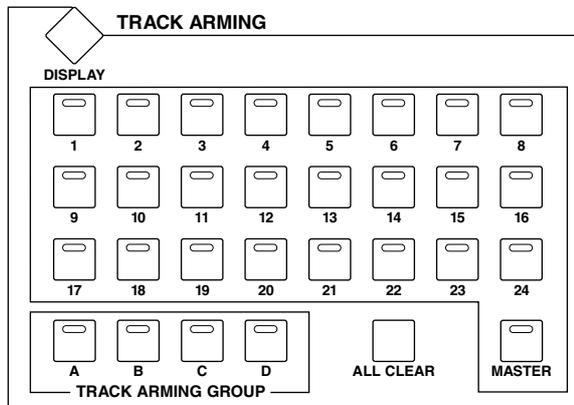
2 (parameter wheel) INC/DEC

, [ENTER]
LOCATE MEMORY 1-8, IN, OUT RTZ: LOCATOR [1-8], [IN], [OUT]
[RTZ]
, Time Reference (frame

rate setting) (171). DM2000 (timecode)
 LOCATOR [SET]
 , [1-8], [IN], [OUT] [RTZ]
PREROLL TIME: In , LOCATOR [PRE]
 , In 00:01:00.00 - (pre-roll time) 5 , 00:00:55.00
POSTROLL TIME: Out , LOCATOR [POST]
 , Out 00:01:00.00 - (post-roll time) 5 ,
 00:01:05.00
ROLLBACK TIME: LOCATOR [ROLL BACK] 가
 roll-back

(Machine Track Arming)

TRACK ARMING()



[1-24]

MTR (Master machine)
 (arming) indicator가
 Track Arming) " 226 " "MTR (MTR
 (Master Track Arming) "

TRACK ARMING GROUP [A-D]

(Track arming group) A, B, C, D
 indicator가 (Track arming group) P2
 227 " (Track Arming Group)

[ALL CLEAR]

(track arming)

[MASTER]

(Track arming) MTR (Master machine)
 , TRACK ARMING MTR control
 indicator , TRACK ARMING MASTER control
 220 " (Machine Configuration)"

MTR (MTR Track Arming)

MTR TRACK ARMING [1-24]
TRACK ARMING [MASTER] 가

- 1 TRACK ARMING [DISPLAY] MTR Track Arming Configuration(MTR)

TRACK	MACHINE	TARGET TRACK	TRACK	MACHINE	TARGET TRACK
1	1	1	13	3	1
2	1	2	14	3	2
3	1	3	15	4	1
4	1	4	16	4	2
5	1	5	17	5	1
6	1	6	18	5	2
7	1	7	19	5	3
8	1	8	20	5	4
9	2	1	21	NONE	-
10	2	2	22	NONE	-
11	2	3	23	NONE	-
12	2	4	24	NONE	-

- 2 , [ENTER] (parameter wheel) INC/DEC
MACHINE: TRACK ARMING MTR
(parameter) . Machine Configuration() (220) MTR
TARGET TRACK: TRACK ARMING MTR
(parameter)

(Master Track Arming)

(Master machine track) TRACK ARMING [1-24]
TRACK ARMING [MASTER] 가

- 1 TRACK ARMING [DISPLAY] Master Track Arming Configuration

TRACK	MACHINE	TARGET TRACK	TRACK	MACHINE	TARGET TRACK
1	8	1	13	NONE	-
2	8	2	14	NONE	-
3	8	3	15	NONE	-
4	8	4	16	NONE	-
5	8	5	17	NONE	-
6	8	6	18	NONE	-
7	8	7	19	NONE	-
8	8	8	20	NONE	-
9	NONE	-	21	NONE	-
10	NONE	-	22	NONE	-
11	NONE	-	23	NONE	-
12	NONE	-	24	NONE	-

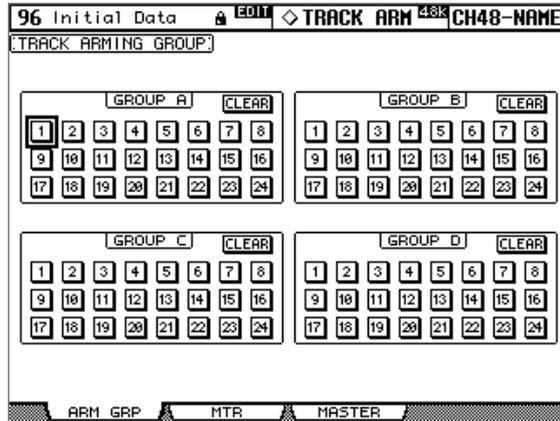
- 2 , [ENTER] (Parameter wheel) INC/DEC
MACHINE: TRACK ARMING (Master machine)
(parameter) . Machine Configuration
(220)

TARGET TRACK: TRACK ARMING
(arming) (parameter)

(Track Arming Group)

(Track arming group) A, B, C, D MTR
(Master machine track)

1 TRACK ARMING [DISPLAY] Track Arming Group



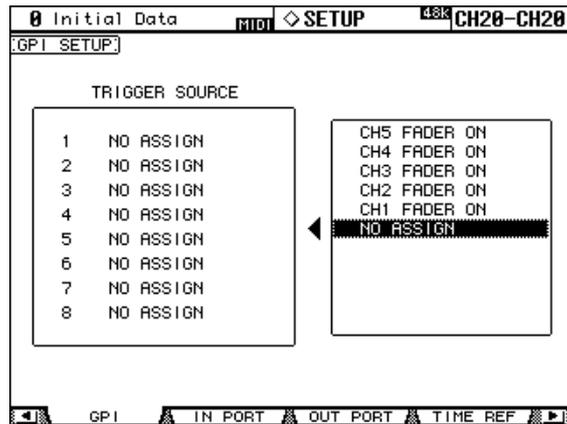
2 INC/DEC (parameter wheel) [ENTER] 가

CLEAR TRACK ARMING GROUP [A-D] indicator가 (arming) , TRACK ARMING GROUP [A-D] indicator가 (unarming) indicator가

GPI(General Purpose Interface:)

DM2000 CONTROL (25- D-) CONTROL
 control GPI (pinout) 315 
 (Fader) USER DEFINED KEYS
 (trigger signal) 8 GPI
 GPI "RECORDING"
 control , Yamaha 02R (solo
 function)

1 DISPLAY ACCESS [SETUP] GPI



GPI 가 GPI

2 Up/Down GPI

3 (Parameter wheel) INC/DEC

가 261 "GPI (GPI Trigger Source List)"

4 [ENTER]

Fader: (Fader) control (Fader) -
 FADER ON 가 (Fader) - FADER OFF
 가 가 , GPI 250 msec
 High(+5 V)가

USER DEFINED KEYS: (trigger) . UNLATCH
 , USER DEFINED KEY , GPI 250 msec High(+5 V)
 . LATCH , USER DEFINED KEY , GPI High(+5 V)
 USER DEFINED KEY High

REC LAMP: "RECORDING" control
 . [REC] indicator가 , GPI High(+5 V)

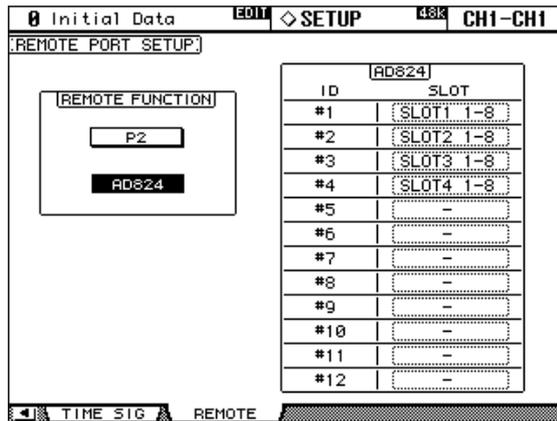
AD824 A/D (Converter) control

9 (Reversed cable) DM2000 REMOTE Yamaha REMOTE
 AD824 A/D (converter) , DM2000 12
 (converter) (Gain) (Phantom) /
 control . (pinout) 315

REMOTE AD824 ID

REMOTE ,AD824 ID

1 DISPLAY ACCESS [SETUP] Remote Port Setup



2 REMOTE FUNCTION AD824 , [ENTER]

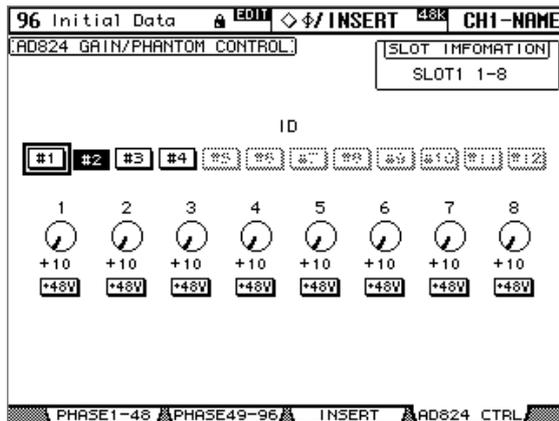
3 AD824 SLOT (Parameter wheel)
INC/DEC

가 ID DM2000 AD824

DM2000 AD824 control

AD824 Gain/Phantom Control AD824 control

1 SELECTED CHANNEL PHASE/INSERT [DISPLAY] AD824 Gain/Phantom Control



2 control AD824 ID , [ENTER]

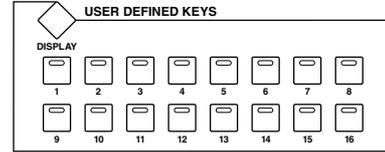
3 Rotary control AD824 (Gain) , +48V
(phantom)

(Gain) () Scene

21

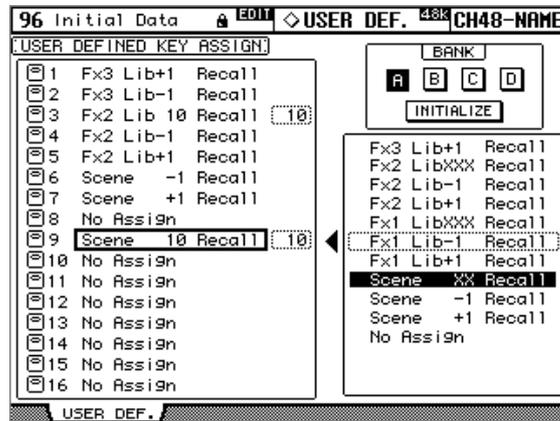
(User Defined Key)

150 가 16
 USER DEFINED KEYS , 4
 A, B, C, D
 240



1 USER DEFINED KEYS [DISPLAY]

User defined Key Assigned



- 2 BANK A, B, C, D , [ENTER]
- 3 Assign (Parameter wheel) INC/DEC
- 가 240
- 4 [ENTER] Scene KEY , USER DEFINED
 Assign (Parameter wheel) INC/DEC
 INITIALIZE [ENTER]
- MIDI (Bulk Dump)(187) MIDI (MIDI Data Filer) MIDI , (231)
 (User Defined Key Bank)

(SmartMedia) DM2000

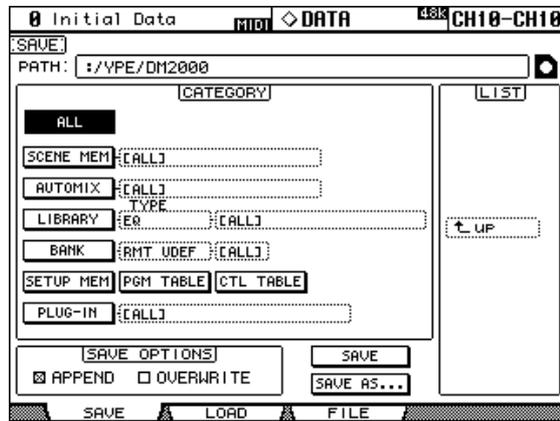
(Saving)

DM2000

(SmartMedia)

1 DISPLAY ACCESS [DATA]

Save



2

(SmartMedia card) CARD

"/YPE/DM2000" 가 , 가 ,
 YES

LIST 가 CATEGORY

LIST , (Parameter wheel) INC/DEC
 "D"가

[ENTER]
 , "up" [ENTER] "/YPE/DM2000"
 가

PATH 가 PATH
 (SmartMedia) (SmartMedia card)
 가 "O", "X"가

3

CATEGORY

, LIST SAVE
 [ENTER]

Title Edit Windows가 OK 38
 "Title Edit Window"

SAVE AS ,
 scene , SAVE OPTIONS APPEND
 OVERWRITE 가 .SAVE
 OPTIONS ALL SCENE MEM ALL, AUTOMIX ALL, LIBRARY ALL, BANK ALL, PLUG
 IN ALL

CATEGORY
ALL:
SCENE MEM: scene scene, scene (Edit Buffer)(,
 scene)

AUTOMIX: ,

LIBRARY: (EQ), (Gate), (Comp), (Channel),
 (Effect), GEQ, Bus to Stereo, (Input Patch), (Output Patch),
 (Surround Monitor)

(User Memory), (Input Patch), (Output Patch), (Surround Monitor), Bus to Stereo,

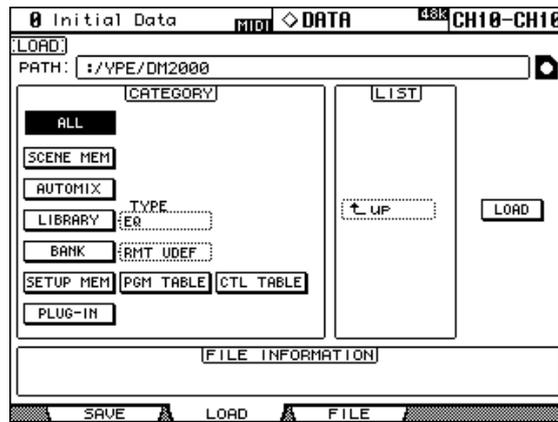
BANK: (User Defined Remote Bank), (User Defined Plug-in Bank) (User Defined Key Bank)

SETUP MEM: DM2000 (,)
PGM TABLE: MIDI Scene 185
 " (Program Change) Scene "
CTL TABLE: MIDI 186
 " (Control Change) (Parameter) "
PLUG-IN: (Slot) (Effect)

(Loading)

(SmartMedia) DM2000

- 1 **DISPLAY ACCESS [DATA] Load**



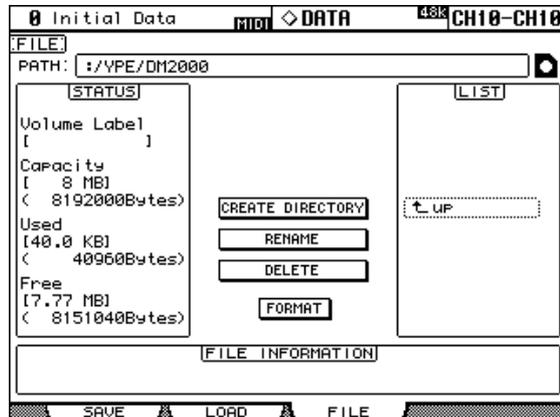
- 2 (SmartMedia card) **CARD**
- 3 , **CATEGORY**
 , **LIST** **LOAD**
[ENTER]

FILE INFORMATION
 .PATH LIST , (SmartMedia) 231
 " (Saving)"

(SmartMedia)

(SmartMedia)

1 DISPLAY ACCESS [DATA] File()



2 (SmartMedia card) CARD

"/YPE/DM2000" 가 가 ,
YES

FILE INFORMATION

.PATH LIST , 231 "
(Saving)"

STATUS , (SmartMedia) Volume Label(), Total
Capacity(), Used space(), Free space()

3 , LIST 가
, CREATE DIRECTORY , [ENTER]

Title Edit , OK
38 "Title Edit Window"

4 , LIST
, RENAME , [ENTER]

Title Edit , OK 38
"Title Edit Window"

5 , LIST
, DELETE , [ENTER]

6 (SmartMedia card) , FORMAT , [ENTER]

Title Edit , (volume label) OK
38 "Title Edit Window" ."/YPE/DM2000"
가

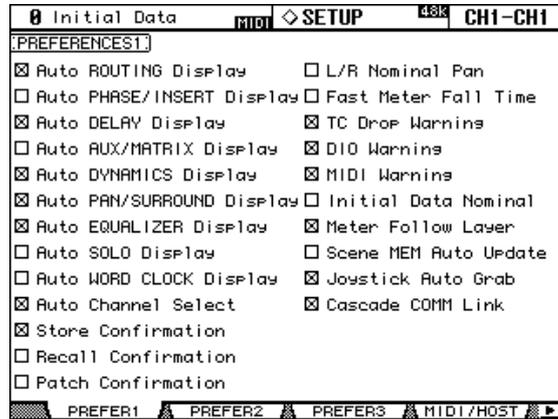
Preferences

Preferences DM2000

Preferences 1

1 DISPLAY ACCESS [SETUP]

Preferences1



2 (Parameter wheel) Preferences , INC/DEC [ENTER]

Auto ROUTING Display: Preferences , SELECTED CHANNEL ROUTING Routing 가 (75).

Auto PHASE/INSERT Display: Preferences , SELECTED CHANNEL PHASE/INSERT Phase [∅] Phase 가 (68), SELECTED CHANNEL PHASE/INSERT [INSERT ON] Insert 가 (111).

Auto DELAY Display: , SELECTED CHANNEL DELAY Delay 가 (117). control

Auto AUX/MATRIX Display: Preferences , (Input Channel layer) SELECTED CHANNEL AUX/MATRIX SEND control Aux View 가 (92), (Master layer) SELECTED CHANNEL AUX/MATRIX SEND control Matrix View 가 (99).

Auto DYNAMICS Display: Preferences , SELECTED CHANNEL DYNAMICS control Gate Edit 가 (69), SELECTED CHANNEL DYNAMICS control Comp Edit 가 (113).

Auto PAN/SURROUND Display: Preferences , SELECTED CHANNEL PAN/SURROUND control Pan 가 (76). 가 가 (Surround Pan mode) , Input Channel Surround Edit 가 (79).

Auto EQUALIZER Display: Preferences , SELECTED CHANNEL EQUALIZER control EQ Edit 가 (109).

Auto SOLO Display: , Solo Solo Setup 가 (119).

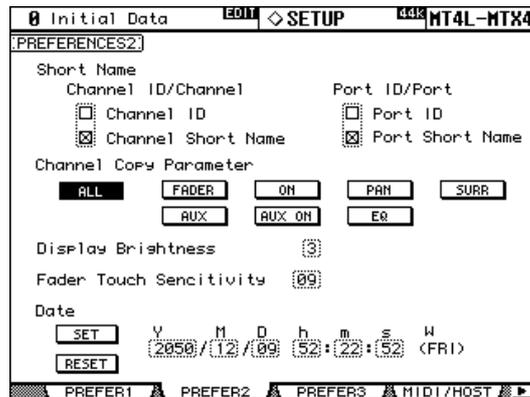
Auto WORD CLOCK Display: Preferences , (external wordclock source) 가 Word Clock Select 가 (51).

- Auto Channel Select:** Preferences , (fader)
(encoder) [AUTO], [SOLO] [ON]
- Store Confirmation:** Preferences , Scene(159)
(139) Title Edit Windows()가 .
- Recall Confirmation:** Preferences , Scene(159)
(139) 가 .
- Patch Confirmation:** Preferences , (Input Patch)
(Output Patch) 가 (61).
- L/R Nominal Pan:** Preferences , Input Channel 가 가
/ / 가 (nominal level) ,
-3 dB . Preferences ,가 가
가 3 dB , (nominal level)
- Fast Meter Fall Time:** Preferences , (level meter)가
- TC Drop Warning:** Preferences , (timecode)
(dropout) 가 .
- DIO Warning:** Preferences , (Slot Input) 2TR
(Digital Input) (Digital Audio Signal) 가
가 .
- MIDI Warning:** Preferences , MIDI 가
가 .
- Initial Data Nominal:** Preferences , Scene #0
(Input Channel Fader)가
- Meter Follow Layer:** Preferences , MB2000 (Peak
Meter Bridge)가 DM2000
- Scene MEM Auto Update:** Preferences , Shadow Scene
(158).
- Joystick Auto Grab:** Preferences ,
(Surround pan position) , control
(79).
- Cascade COMM Link:** Preferences ,가 (cascading) DM2000
(58). Preferences ,가
(cascading) DM2000 (Digital Audio Signal) .

Preferences 2

1 DISPLAY ACCESS [SETUP]

Preferences 2



2 Preferences (Parameter wheel), INC/DEC [ENTER]

Channel ID/Channel: Channel ID, Channel Strip Display ID가
 . Channel Short Name()
 41 " (Channel Name)"

Port ID/Port: Port ID, (Encoder) Channel Strip
 Display ID가 . Port Short Name()
 67 " (Encoder) "

Channel Copy Parameter:
 , ALL , FADER, ON, PAN, SURR, AUX, AUX ON, EQ
 129 "
 (Channel Setting Copying)"

Display Brightness: LED indicator

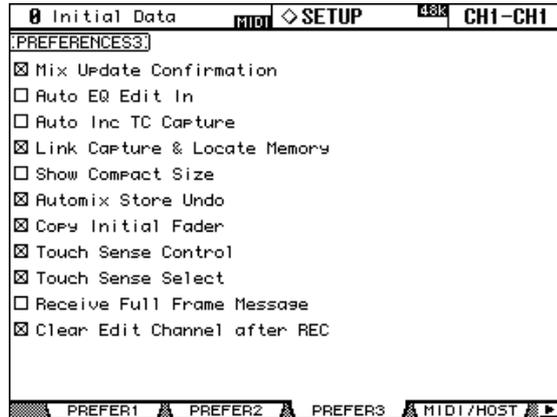
Fader Touch Sensitivity: (Fader) Fader knob
 . Fader knob 가 ,
 가 ,
 DM2000 . 34 "
 "

Date: (SmartMedia)
 (parameter) . (Parameter wheel) INC/DEC
 , SET , CANCEL

Preferences 3

1 DISPLAY ACCESS [SETUP]

Preferences 3



2

(Parameter wheel) Preferences

, INC/DEC

[ENTER]

- Mix Update Confirmation:** Preferences (Automix recording) , (Automix recording) 가 .
- Auto EQ Edit In:** Preferences , control 가 .
- Auto Inc TC Capture:** Preferences , Automix Event Edit (timecode address) (Timecode Capture) 가 가 (177) .
- Link Capture & Locate Memory:** Preferences , Automix Event Edit 8 가 8 . 1 가 1 .
- Show Compact Size:** (Undo buffer) (Automix data) Preferences , Automix Main Memory (Automix) 가 . Preferences 가 .
- Automix Store Undo:** Preferences , (Undo function) (Automix Store) .
- Copy Initial Fader:** Preferences , Automix Event Copy (fader event) , IN TO (Fader event)가 Preferences TO .
- Touch Sense Control:** Preferences , 가 (, 가 Fader knob) 가 , " (Cut-in)" 가 . Preferences
- Touch Sense Select:** Preferences , Fader knob .
- Receive Full Frame Message:** Preferences , MTC 가 (Automix)가 .
- Clear Edit Channel after REC:** Preferences , (Auto Rec) (Automix recording) (, [AUTO]) . Preferences , (arming) .

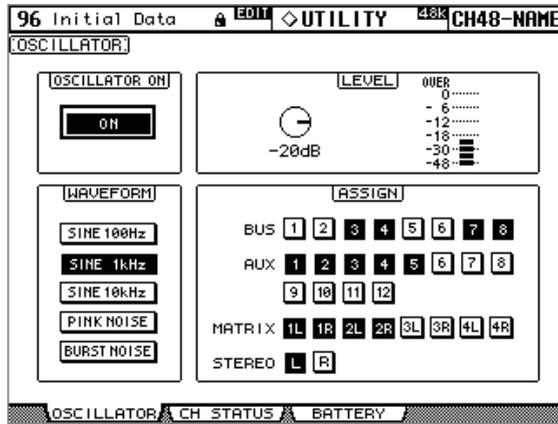
Oscillator

DM2000

Oscillator가

1 DISPLAY ACCESS [UTILITY]

Oscillator



2 (Parameter wheel), INC/DEC , [ENTER]

OSCILLATOR ON: Oscillator LEVEL
[ENTER] Oscillator

: LEVEL (tone burst) , Oscillator

LEVEL: Oscillator (Output Level)
(Parameter wheel)

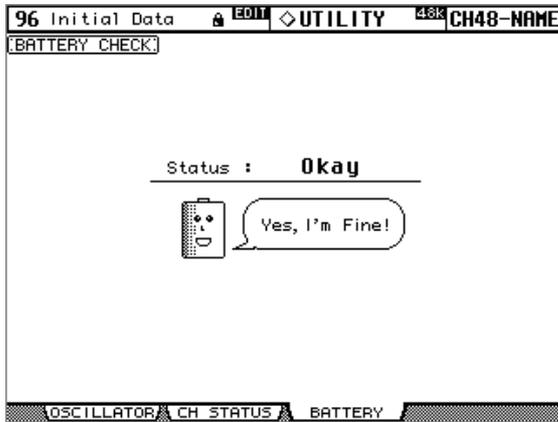
WAVEFORM: SINE 100Hz, SINE 1kHz, SINE 10kHz, PINK NOISE, 4 200 msec
BURST NOISE

ASSIGN: Oscillator (Bus Out), (Aux Send), (Matrix Send), (Stereo Out)

(Internal memory-backup battery)

1 DISPLAY ACCESS [UTILITY]

Battery Check



Status()가 "Okay()" 가 . Status()가 "Getting Low()" 가 Yamaha 가

DM2000

DM2000

	(User Memory)
가 , MIDI (Bulk Dump) (187) ,	
(231) . (mix setting)	
Scene memory #0 (157) .	

- 1 **DM2000** .
- 2 **SCENE MEMORY [STORE]** , **DM2000** .
- 3 가 , **SCENE MEMORY [STORE]** , **YES**
[ENTER] .
 , "Loading Factory Presets & Calibrating the Faders. . . Do Not Touch the Faders!
 (... !)"
 가 .
 가 .
 가 .

A: (Parameter)

USER DEFINED KEYS

0	No ASSIGN	No Assign
1	Scene MEM. Recall +1	Scene +1 Recall
2	Scene MEM. Recall -1	Scene -1 Recall
3	Scene MEM. Recall No. XX	Scene XX Recall
4	Effect-1 Lib. Recall +1	Fx1 Lib+1 Recall
5	Effect-1 Lib. Recall -1	Fx1 Lib -1 Recall
6	Effect-1 Lib. Recall No. XX	Fx1 LibXXX RCL.
7	Effect-2 Lib. Recall +1	Fx2 Lib+1 Recall
8	Effect-2 Lib. Recall -1	Fx2 Lib-1 Recall
9	Effect-2 Lib. Recall No.XX	Fx2 LibXXX RCL.
10	Effect-3 Lib. Recall +1	Fx3 Lib+1 Recall
11	Effect-3 Lib. Recall -1	Fx3 Lib-1 Recall
12	Effect-3 Lib. Recall No.XX	Fx3 LibXXX RCL.
13	Effect-4 Lib. Recall +1	Fx4 Lib+1 Recall
14	Effect-4 Lib. Recall -1	Fx4 Lib-1 Recall
15	Effect-4 Lib. Recall No.XX	Fx4 LibXXX RCL.
16	Effect-5 Lib. Recall +1	Fx5 Lib+1 Recall
17	Effect-5 Lib. Recall -1	Fx5 Lib-1 Recall
18	Effect-5 Lib. Recall No.XX	Fx5 LibXXX RCL.
19	Effect-6 Lib. Recall +1	Fx6 Lib+1 Recall
20	Effect-6 Lib. Recall -1	Fx6 Lib-1 Recall
21	Effect-6 Lib. Recall No.XX	Fx6 LibXXX RCL.
22	Effect-7 Lib. Recall +1	Fx7 Lib+1 Recall
23	Effect-7 Lib. Recall -1	Fx7 Lib-1 Recall
24	Effect-7 Lib. Recall No.XX	Fx7 LibXXX RCL.
25	Effect-8 Lib. Recall +1	Fx8 Lib+1 Recall
26	Effect-8 Lib. Recall -1	Fx8 Lib-1 Recall
27	Effect-8 Lib. Recall No.XX	Fx8 LibXXX RCL.
28	Effect-1 Bypass On/Off	Fx1 Bypass
29	Effect-2 Bypass On/Off	Fx2 Bypass
30	Effect-3 Bypass On/Off	Fx3 Bypass
31	Effect-4 Bypass On/Off	Fx4 Bypass
32	Effect-5 Bypass On/Off	Fx5 Bypass
33	Effect-6 Bypass On/Off	Fx6 Bypass
34	Effect-7 Bypass On/Off	Fx7 Bypass
35	Effect-8 Bypass On/Off	Fx8 Bypass
36	Channel Lib. Recall +1	CH Lib+1 Recall
37	Channel Lib. Recall -1	CH Lib-1Recall
38	Channel Lib. Recall No. XX	CH LibXXX Recall
39	GATE Lib. Recall +1	Gate Lib+1 RCL.
40	GATE Lib. Recall -1	Gate Lib-1 RCL.
41	GATE Lib. Recall No. XX	Gate LibXXX RCL.

42	COMP Lib. Recall +1	Comp Lib+1 RCL.
43	COMP Lib. Recall -1	Comp Lib-1 RCL.
44	COMP Lib. Recall No. XX	Comp LibXXX RCL.
45	EQ Lib. Recall +1	EQ Lib+1 Recall
46	EQ Lib. Recall -1	EQ Lib-1 Recall
47	EQ Lib. Recall No. XX	EQ LibXXX Recall
48	GEQ1 Lib. Recall +1	GEQ1 Lib+1 RCL.
49	GEQ1 Lib. Recall -1	GEQ1 Lib-1 RCL.
50	GEQ1 Lib. Recall No. XX	GEQ1 LibXXX RCL.
51	GEQ2 Lib. Recall +1	GEQ2 Lib+1 RCL.
52	GEQ2 Lib. Recall -1	GEQ2 Lib-1 RCL.
53	GEQ2 Lib. Recall No. XX	GEQ2 LibXXX RCL.
54	GEQ3 Lib. Recall +1	GEQ3 Lib+1 RCL.
55	GEQ3 Lib. Recall -1	GEQ3 Lib-1 RCL.
56	GEQ3 Lib. Recall No. XX	GEQ3 LibXXX RCL.
57	GEQ4 Lib. Recall +1	GEQ4 Lib+1 RCL.
58	GEQ4 Lib. Recall -1	GEQ4 Lib-1 RCL.
59	GEQ4 Lib. Recall No. XX	GEQ4 LibXXX RCL.
60	GEQ5 Lib. Recall +1	GEQ5 Lib+1 RCL.
61	GEQ5 Lib. Recall -1	GEQ5 Lib-1 RCL.
62	GEQ5 Lib. Recall No. XX	GEQ5 LibXXX RCL.
63	GEQ6 Lib. Recall +1	GEQ6 Lib+1 RCL.
64	GEQ6 Lib. Recall -1	GEQ6 Lib-1 RCL.
65	GEQ6 Lib. Recall No. XX	GEQ6 LibXXX RCL.
66	GEQ-1 On/Off	GEQ1 ON/OFF
67	GEQ-2 On/Off	GEQ2 ON/OFF
68	GEQ-3 On/Off	GEQ3 ON/OFF
69	GEQ-4 On/Off	GEQ4 ON/OFF
70	GEQ-5 On/Off	GEQ5 ON/OFF
71	GEQ-6 On/Off	GEQ6 ON/OFF
72	SURR.MONI MUTE Mute L On/Off	Surr.Mon L Mute
73	SURR.MONI MUTE Mute R On/Off	Surr.Mon R Mute
74	SURR.MONI MUTE Mute Ls On/Off	Surr.Mon Ls Mute
75	SURR.MONI MUTE Mute Rs On/Off	Surr.Mon Rs Mute
76	SURR.MONI MUTE Mute C On/Off	Surr.Mon C Mute
77	SURR.MONI MUTE Mute LFE On/Off	Surr.Mon LFEMute
78	SURR.MONI SLOT1 ON/OFF	Surr.SLOT1 ON
79	SURR.MONI SLOT2 ON/OFF	Surr.SLOT2 ON
80	SURR.MONI SLOT3 ON/OFF	Surr.SLOT3 ON
81	SURR.MONI SLOT4 ON/OFF	Surr.SLOT4 ON

82	SURR.MONI SLOT5 ON/OFF	Surr.SLOT5 ON
83	SURR.MONI SLOT6 ON/OFF	Surr.SLOT6 ON
84	SURR.MONI BASS MANAGE ON/OFF	Bass Manage ON
85	Input Fader Group Enable A	IN Fader Group A
86	Input Fader Group Enable B	IN Fader Group B
87	Input Fader Group Enable C	IN Fader Group C
88	Input Fader Group Enable D	IN Fader Group D
89	Input Fader Group Enable E	IN Fader Group E
90	Input Fader Group Enable F	IN Fader Group F
91	Input Fader Group Enable G	IN Fader Group G
92	Input Fader Group Enable H	IN Fader Group H
93	Input MUTE Group Enable I	IN Mute Group I
94	Input MUTE Group Enable J	IN Mute Group J
95	Input MUTE Group Enable K	IN Mute Group K
96	Input MUTE Group Enable L	IN Mute Group L
97	Input MUTE Group Enable M	IN Mute Group M
98	Input MUTE Group Enable N	IN Mute Group N
99	Input MUTE Group Enable O	IN Mute Group O
100	Input MUTE Group Enable P	IN Mute Group P
101	Output Fader Group Enable Q	OutFader Group Q
102	Output Fader Group Enable R	OutFader Group R
103	Output Fader Group Enable S	OutFader Group S
104	Output Fader Group Enable T	OutFader Group T
105	Output MUTE Group Enable U	Out Mute Group U
106	Output MUTE Group Enable V	Out Mute Group V
107	Output MUTE Group Enable W	Out Mute Group W
108	Output MUTE Group Enable X	Out Mute Group X
109	PEAK HOLD On/Off	Peak Hold
110	OSCILLATOR On/Off	OSC. ON/OFF
111	SOLO Enable	SOLO ENABLE
112	Input Patch Lib. Recall +1	IN Patch Lib+1
113	Input Patch Lib. Recall -1	IN Patch Lib-1
114	Input Patch Lib. Recall No. XX	IN Patch LibXX
115	Output Patch Lib. Recall +1	Out Patch Lib+1
116	Output Patch Lib. Recall -1	Out Patch Lib-1
117	Output Patch Lib. Recall No. XX	Out Patch LibXX
118	Channel Name ID/Short	CH Name ID/Short
119	Port Name ID/Short	PortNameID/Short
120	Automix REC	Automix REC
121	Automix PLAY	Automix PLAY
122	Automix STOP	Automix STOP
123	Automix ABORT	Automix ABORT
124	Automix AUTO REC	Automix AUTOREC
125	Automix ENABLE	Automix ENABLE
126	Automix RETURN	Automix RETURN

127	Automix TAKEOVER	A u t o m i x TAKEOVER
128	Automix RELATIVE	Automix RELATIVE
129	Automix TOUCH SENSE	Automix T.SENSE
130	Overwrite FADER	Overwrite FADER
131	Overwrite ON	Overwrite ON
132	Overwrite PAN	Overwrite PAN
133	Overwrite SURROUND	Overwrite SURR.
134	Overwrite EQ	Overwrite EQ
135	Overwrite AUX	Overwrite AUX
136	Overwrite AUX ON	Overwrite AUX ON
137	Track Arming 1 ON/OFF	Track Arming 1
138	Track Arming 2 ON/OFF	Track Arming 2
139	Track Arming 3 ON/OFF	Track Arming 3
140	Track Arming 4 ON/OFF	Track Arming 4
141	Track Arming 5 ON/OFF	Track Arming 5
142	Track Arming 6 ON/OFF	Track Arming 6
143	Track Arming 7 ON/OFF	Track Arming 7
144	Track Arming 8 ON/OFF	Track Arming 8
145	Track Arming 9 ON/OFF	Track Arming 9
146	Track Arming 10 ON/OFF	Track Arming 10
147	Track Arming 11 ON/OFF	Track Arming 11
148	Track Arming 12 ON/OFF	Track Arming 12
149	Track Arming 13 ON/OFF	Track Arming 13
150	Track Arming 14 ON/OFF	Track Arming 14
151	Track Arming 15 ON/OFF	Track Arming 15
152	Track Arming 16 ON/OFF	Track Arming 16
153	Track Arming 17 ON/OFF	Track Arming 17
154	Track Arming 18 ON/OFF	Track Arming 18
155	Track Arming 19 ON/OFF	Track Arming 19
156	Track Arming 20 ON/OFF	Track Arming 20
157	Track Arming 21 ON/OFF	Track Arming 21
158	Track Arming 22 ON/OFF	Track Arming 22
159	Track Arming 23 ON/OFF	Track Arming 23
160	Track Arming 24 ON/OFF	Track Arming 24

USER DEFINED KEYS

	A	B	C	D
1	SOLO ON	Scene 1 Recall	IN Fader Group A	No Assign
2	No Assign	Scene 2 Recall	IN Fader Group B	No Assign
3	No Assign	Scene 3 Recall	IN Fader Group C	No Assign
4	No Assign	Scene 4 Recall	IN Fader Group D	No Assign
5	No Assign	Scene 5 Recall	IN Fader Group E	No Assign
6	Surr.Mon L Mute	Scene 6 Recall	IN Fader Group F	No Assign
7	Surr.Mon C Mute	Scene 7 Recall	IN Fader Group G	No Assign
8	Surr.Mon R Mute	Scene +1 Recall	IN Fader Group H	No Assign
9	Bass Manage ON	Scene 8 Recall	IN Mute Group I	No Assign
10	No Assign	Scene 9 Recall	IN Mute Group J	No Assign
11	No Assign	Scene 10 Recall	IN Mute Group K	No Assign
12	No Assign	Scene 11 Recall	IN Mute Group L	No Assign
13	No Assign	Scene 12 Recall	IN Mute Group M	No Assign
14	Surr.Mon Ls Mute	Scene 13 Recall	IN Mute Group N	No Assign
15	Surr.Mon LFEMute	Scene 14 Recall	IN Mute Group O	No Assign
16	Surr.Mon Rs Mute	Scene 1 Recall	IN Mute Group P	No Assign

(Insert Patch Parameter)

(Input Channel Input)		(Input Channel Insert In)		(Internal Effect Processor Input)	
ID		ID		ID	
NONE	NONE	NONE	NONE	NONE	NONE
AD1	AD IN 1	AD1	AD IN 1	AUX1	AUX1
AD2	AD IN 2	AD2	AD IN 2	AUX2	AUX2
AD3	AD IN 3	AD3	AD IN 3	AUX3	AUX3
AD4	AD IN 4	AD4	AD IN 4	AUX4	AUX4
AD5	AD IN 5	AD5	AD IN 5	AUX5	AUX5
AD6	AD IN 6	AD6	AD IN 6	AUX6	AUX6
AD7	AD IN 7	AD7	AD IN 7	AUX7	AUX7
AD8	AD IN 8	AD8	AD IN 8	AUX8	AUX8
AD9	AD IN 9	AD9	AD IN 9	AUX9	AUX9
AD10	AD IN 10	AD10	AD IN 10	AUX10	AUX10
AD11	AD IN 11	AD11	AD IN 11	AUX11	AUX11
AD12	AD IN 12	AD12	AD IN 12	AUX12	AUX12
AD13	AD IN 13	AD13	AD IN 13	INSCH1	InsertOut-CH1
AD14	AD IN 14	AD14	AD IN 14	INSCH2	InsertOut-CH2
AD15	AD IN 15	AD15	AD IN 15	INSCH3	InsertOut-CH3
AD16	AD IN 16	AD16	AD IN 16	INSCH4	InsertOut-CH4
AD17	AD IN 17	AD17	AD IN 17	INSCH5	InsertOut-CH5
AD18	AD IN 18	AD18	AD IN 18	INSCH6	InsertOut-CH6
AD19	AD IN 19	AD19	AD IN 19	INSCH7	InsertOut-CH7
AD20	AD IN 20	AD20	AD IN 20	INSCH8	InsertOut-CH8
AD21	AD IN 21	AD21	AD IN 21	INSCH9	InsertOut-CH9
AD22	AD IN 22	AD22	AD IN 22	INSCH10	InsertOut-CH10
AD23	AD IN 23	AD23	AD IN 23	INSCH11	InsertOut-CH11
AD24	AD IN 24	AD24	AD IN 24	INSCH12	InsertOut-CH12
S1-1	Slot1 CH1 IN	S1-1	Slot1 CH1 IN	INSCH13	InsertOut-CH13
S1-2	Slot1 CH2 IN	S1-2	Slot1 CH2 IN	INSCH14	InsertOut-CH14

(Input Channel Input)		(Input Channel Insert In)		(Internal Effect Processor Input)	
ID		ID		ID	
S1-3	Slot1 CH3 IN	S1-3	Slot1 CH3 IN	INSCH15	InsertOut-CH15
S1-4	Slot1 CH4 IN	S1-4	Slot1 CH4 IN	INSCH16	InsertOut-CH16
S1-5	Slot1 CH5 IN	S1-5	Slot1 CH5 IN	INSCH17	InsertOut-CH17
S1-6	Slot1 CH6 IN	S1-6	Slot1 CH6 IN	INSCH18	InsertOut-CH18
S1-7	Slot1 CH7 IN	S1-7	Slot1 CH7 IN	INSCH19	InsertOut-CH19
S1-8	Slot1 CH8 IN	S1-8	Slot1 CH8 IN	INSCH20	InsertOut-CH20
S1-9	Slot1 CH9 IN	S1-9	Slot1 CH9 IN	INSCH21	InsertOut-CH21
S1-10	Slot1 CH10 IN	S1-10	Slot1 CH10 IN	INSCH22	InsertOut-CH22
S1-11	Slot1 CH11 IN	S1-11	Slot1 CH11 IN	INSCH23	InsertOut-CH23
S1-12	Slot1 CH12 IN	S1-12	Slot1 CH12 IN	INSCH24	InsertOut-CH24
S1-13	Slot1 CH13 IN	S1-13	Slot1 CH13 IN	INSCH25	InsertOut-CH25
S1-14	Slot1 CH14 IN	S1-14	Slot1 CH14 IN	INSCH26	InsertOut-CH26
S1-15	Slot1 CH15 IN	S1-15	Slot1 CH15 IN	INSCH27	InsertOut-CH27
S1-16	Slot1 CH16 IN	S1-16	Slot1 CH16 IN	INSCH28	InsertOut-CH28
S2-1	Slot2 CH1 IN	S2-1	Slot2 CH1 IN	INSCH29	InsertOut-CH29
S2-2	Slot2 CH2 IN	S2-2	Slot2 CH2 IN	INSCH30	InsertOut-CH30
S2-3	Slot2 CH3 IN	S2-3	Slot2 CH3 IN	INSCH31	InsertOut-CH31
S2-4	Slot2 CH4 IN	S2-4	Slot2 CH4 IN	INSCH32	InsertOut-CH32
S2-5	Slot2 CH5 IN	S2-5	Slot2 CH5 IN	INSCH33	InsertOut-CH33
S2-6	Slot2 CH6 IN	S2-6	Slot2 CH6 IN	INSCH34	InsertOut-CH34
S2-7	Slot2 CH7 IN	S2-7	Slot2 CH7 IN	INSCH35	InsertOut-CH35
S2-8	Slot2 CH8 IN	S2-8	Slot2 CH8 IN	INSCH36	InsertOut-CH36
S2-9	Slot2 CH9 IN	S2-9	Slot2 CH9 IN	INSCH37	InsertOut-CH37
S2-10	Slot2 CH10 IN	S2-10	Slot2 CH10 IN	INSCH38	InsertOut-CH38
S2-11	Slot2 CH11 IN	S2-11	Slot2 CH11 IN	INSCH39	InsertOut-CH39
S2-12	Slot2 CH12 IN	S2-12	Slot2 CH12 IN	INSCH40	InsertOut-CH40
S2-13	Slot2 CH13 IN	S2-13	Slot2 CH13 IN	INSCH41	InsertOut-CH41
S2-14	Slot2 CH14 IN	S2-14	Slot2 CH14 IN	INSCH42	InsertOut-CH42
S2-15	Slot2 CH15 IN	S2-15	Slot2 CH15 IN	INSCH43	InsertOut-CH43
S2-16	Slot2 CH16 IN	S2-16	Slot2 CH16 IN	INSCH44	InsertOut-CH44
S3-1	Slot3 CH1 IN	S3-1	Slot3 CH1 IN	INSCH45	InsertOut-CH45
S3-2	Slot3 CH2 IN	S3-2	Slot3 CH2 IN	INSCH46	InsertOut-CH46
S3-3	Slot3 CH3 IN	S3-3	Slot3 CH3 IN	INSCH47	InsertOut-CH47
S3-4	Slot3 CH4 IN	S3-4	Slot3 CH4 IN	INSCH48	InsertOut-CH48
S3-5	Slot3 CH5 IN	S3-5	Slot3 CH5 IN	INSCH49	InsertOut-CH49
S3-6	Slot3 CH6 IN	S3-6	Slot3 CH6 IN	INSCH50	InsertOut-CH50
S3-7	Slot3 CH7 IN	S3-7	Slot3 CH7 IN	INSCH51	InsertOut-CH51
S3-8	Slot3 CH8 IN	S3-8	Slot3 CH8 IN	INSCH52	InsertOut-CH52
S3-9	Slot3 CH9 IN	S3-9	Slot3 CH9 IN	INSCH53	InsertOut-CH53
S3-10	Slot3 CH10 IN	S3-10	Slot3 CH10 IN	INSCH54	InsertOut-CH54
S3-11	Slot3 CH11 IN	S3-11	Slot3 CH11 IN	INSCH55	InsertOut-CH55
S3-12	Slot3 CH12 IN	S3-12	Slot3 CH12 IN	INSCH56	InsertOut-CH56
S3-13	Slot3 CH13 IN	S3-13	Slot3 CH13 IN	INSCH57	InsertOut-CH57
S3-14	Slot3 CH14 IN	S3-14	Slot3 CH14 IN	INSCH58	InsertOut-CH58
S3-15	Slot3 CH15 IN	S3-15	Slot3 CH15 IN	INSCH59	InsertOut-CH59
S3-16	Slot3 CH16 IN	S3-16	Slot3 CH16 IN	INSCH60	InsertOut-CH60
S4-1	Slot4 CH1 IN	S4-1	Slot4 CH1 IN	INSCH61	InsertOut-CH61
S4-2	Slot4 CH2 IN	S4-2	Slot4 CH2 IN	INSCH62	InsertOut-CH62
S4-3	Slot4 CH3 IN	S4-3	Slot4 CH3 IN	INSCH63	InsertOut-CH63
S4-4	Slot4 CH4 IN	S4-4	Slot4 CH4 IN	INSCH64	InsertOut-CH64
S4-5	Slot4 CH5 IN	S4-5	Slot4 CH5 IN	INSCH65	InsertOut-CH65

(Input Channel Input)		(Input Channel Insert In)		(Internal Effect Processor Input)	
ID		ID		ID	
S4-6	Slot4 CH6 IN	S4-6	Slot4 CH6 IN	INSCH66	InsertOut-CH66
S4-7	Slot4 CH7 IN	S4-7	Slot4 CH7 IN	INSCH67	InsertOut-CH67
S4-8	Slot4 CH8 IN	S4-8	Slot4 CH8 IN	INSCH68	InsertOut-CH68
S4-9	Slot4 CH9 IN	S4-9	Slot4 CH9 IN	INSCH69	InsertOut-CH69
S4-10	Slot4 CH10 IN	S4-10	Slot4 CH10 IN	INSCH70	InsertOut-CH70
S4-11	Slot4 CH11 IN	S4-11	Slot4 CH11 IN	INSCH71	InsertOut-CH71
S4-12	Slot4 CH12 IN	S4-12	Slot4 CH12 IN	INSCH72	InsertOut-CH72
S4-13	Slot4 CH13 IN	S4-13	Slot4 CH13 IN	INSCH73	InsertOut-CH73
S4-14	Slot4 CH14 IN	S4-14	Slot4 CH14 IN	INSCH74	InsertOut-CH74
S4-15	Slot4 CH15 IN	S4-15	Slot4 CH15 IN	INSCH75	InsertOut-CH75
S4-16	Slot4 CH16 IN	S4-16	Slot4 CH16 IN	INSCH76	InsertOut-CH76
S5-1	Slot5 CH1 IN	S5-1	Slot5 CH1 IN	INSCH77	InsertOut-CH77
S5-2	Slot5 CH2 IN	S5-2	Slot5 CH2 IN	INSCH78	InsertOut-CH78
S5-3	Slot5 CH3 IN	S5-3	Slot5 CH3 IN	INSCH79	InsertOut-CH79
S5-4	Slot5 CH4 IN	S5-4	Slot5 CH4 IN	INSCH80	InsertOut-CH80
S5-5	Slot5 CH5 IN	S5-5	Slot5 CH5 IN	INSCH81	InsertOut-CH81
S5-6	Slot5 CH6 IN	S5-6	Slot5 CH6 IN	INSCH82	InsertOut-CH82
S5-7	Slot5 CH7 IN	S5-7	Slot5 CH7 IN	INSCH83	InsertOut-CH83
S5-8	Slot5 CH8 IN	S5-8	Slot5 CH8 IN	INSCH84	InsertOut-CH84
S5-9	Slot5 CH9 IN	S5-9	Slot5 CH9 IN	INSCH85	InsertOut-CH85
S5-10	Slot5 CH10 IN	S5-10	Slot5 CH10 IN	INSCH86	InsertOut-CH86
S5-11	Slot5 CH11 IN	S5-11	Slot5 CH11 IN	INSCH87	InsertOut-CH87
S5-12	Slot5 CH12 IN	S5-12	Slot5 CH12 IN	INSCH88	InsertOut-CH88
S5-13	Slot5 CH13 IN	S5-13	Slot5 CH13 IN	INSCH89	InsertOut-CH89
S5-14	Slot5 CH14 IN	S5-14	Slot5 CH14 IN	INSCH90	InsertOut-CH90
S5-15	Slot5 CH15 IN	S5-15	Slot5 CH15 IN	INSCH91	InsertOut-CH91
S5-16	Slot5 CH16 IN	S5-16	Slot5 CH16 IN	INSCH92	InsertOut-CH92
S6-1	Slot6 CH1 IN	S6-1	Slot6 CH1 IN	INSCH93	InsertOut-CH93
S6-2	Slot6 CH2 IN	S6-2	Slot6 CH2 IN	INSCH94	InsertOut-CH94
S6-3	Slot6 CH3 IN	S6-3	Slot6 CH3 IN	INSCH95	InsertOut-CH95
S6-4	Slot6 CH4 IN	S6-4	Slot6 CH4 IN	INSCH96	InsertOut-CH96
S6-5	Slot6 CH5 IN	S6-5	Slot6 CH5 IN	INSBUS1	InsertOut-BUS1
S6-6	Slot6 CH6 IN	S6-6	Slot6 CH6 IN	INSBUS2	InsertOut-BUS2
S6-7	Slot6 CH7 IN	S6-7	Slot6 CH7 IN	INSBUS3	InsertOut-BUS3
S6-8	Slot6 CH8 IN	S6-8	Slot6 CH8 IN	INSBUS4	InsertOut-BUS4
S6-9	Slot6 CH9 IN	S6-9	Slot6 CH9 IN	INSBUS5	InsertOut-BUS5
S6-10	Slot6 CH10 IN	S6-10	Slot6 CH10 IN	INSBUS6	InsertOut-BUS6
S6-11	Slot6 CH11 IN	S6-11	Slot6 CH11 IN	INSBUS7	InsertOut-BUS7
S6-12	Slot6 CH12 IN	S6-12	Slot6 CH12 IN	INSBUS8	InsertOut-BUS8
S6-13	Slot6 CH13 IN	S6-13	Slot6 CH13 IN	INSAUX1	InsertOut-AUX1
S6-14	Slot6 CH14 IN	S6-14	Slot6 CH14 IN	INSAUX2	InsertOut-AUX2
S6-15	Slot6 CH15 IN	S6-15	Slot6 CH15 IN	INSAUX3	InsertOut-AUX3
S6-16	Slot6 CH16 IN	S6-16	Slot6 CH16 IN	INSAUX4	InsertOut-AUX4
FX1-1	Effect1 OUT 1	FX1-1	Effect1 OUT 1	INSAUX5	InsertOut-AUX5
FX1-2	Effect1 OUT 2	FX1-2	Effect1 OUT 2	INSAUX6	InsertOut-AUX6
FX1-3	Effect1 OUT 3	FX1-3	Effect1 OUT 3	INSAUX7	InsertOut-AUX7
FX1-4	Effect1 OUT 4	FX1-4	Effect1 OUT 4	INSAUX8	InsertOut-AUX8
FX1-5	Effect1 OUT 5	FX1-5	Effect1 OUT 5	INSAUX9	InsertOut-AUX9
FX1-6	Effect1 OUT 6	FX1-6	Effect1 OUT 6	INSAUX10	InsertOut-AUX10
FX1-7	Effect1 OUT 7	FX1-7	Effect1 OUT 7	INSAUX11	InsertOut-AUX11
FX1-8	Effect1 OUT 8	FX1-8	Effect1 OUT 8	INSAUX12	InsertOut-AUX12

(Input Channel Input)		(Input Channel Insert In)		(Internal Effect Processor Input)	
ID		ID		ID	
FX2-1	Effect2 OUT 1	FX2-1	Effect2 OUT 1	INSMTX1L	InsertOut-MTX1L
FX2-2	Effect2 OUT 2	FX2-2	Effect2 OUT 2	INSMTX1R	InsertOut-MTX1R
FX2-3	Effect2 OUT 3	FX2-3	Effect2 OUT 3	INSMTX2L	InsertOut-MTX2L
FX2-4	Effect2 OUT 4	FX2-4	Effect2 OUT 4	INSMTX2R	InsertOut-MTX2R
FX2-5	Effect2 OUT 5	FX2-5	Effect2 OUT 5	INSMTX3L	InsertOut-MTX3L
FX2-6	Effect2 OUT 6	FX2-6	Effect2 OUT 6	INSMTX3R	InsertOut-MTX3R
FX2-7	Effect2 OUT 7	FX2-7	Effect2 OUT 7	INSMTX4L	InsertOut-MTX4L
FX2-8	Effect2 OUT 8	FX2-8	Effect2 OUT 8	INSMTX4R	InsertOut-MTX4R
FX3-1	Effect3 OUT 1	FX3-1	Effect3 OUT 1	INSSTL	InsertOut-STL
FX3-2	Effect3 OUT 2	FX3-2	Effect3 OUT 2	INSSTR	InsertOut-STR
FX4-1	Effect4 OUT 1	FX4-1	Effect4 OUT 1	FX1-1	Effect1 OUT 1
FX4-2	Effect4 OUT 2	FX4-2	Effect4 OUT 2	FX1-2	Effect1 OUT 2
FX5-1	Effect5 OUT 1	FX5-1	Effect5 OUT 1	FX2-1	Effect2 OUT 1
FX5-2	Effect5 OUT 2	FX5-2	Effect5 OUT 2	FX2-2	Effect2 OUT 2
FX6-1	Effect6 OUT 1	FX6-1	Effect6 OUT 1	FX3-1	Effect3 OUT 1
FX6-2	Effect6 OUT 2	FX6-2	Effect6 OUT 2	FX3-2	Effect3 OUT 2
FX7-1	Effect7 OUT 1	FX7-1	Effect7 OUT 1	FX4-1	Effect4 OUT 1
FX7-2	Effect7 OUT 2	FX7-2	Effect7 OUT 2	FX4-2	Effect4 OUT 2
FX8-1	Effect8 OUT 1	FX8-1	Effect8 OUT 1	FX5-1	Effect5 OUT 1
FX8-2	Effect8 OUT 2	FX8-2	Effect8 OUT 2	FX5-2	Effect5 OUT 2
2TD1L	2TR IN Dig.1 L	2TD1L	2TR IN Dig.1 L	FX6-1	Effect6 OUT 1
2TD1R	2TR IN Dig.1 R	2TD1R	2TR IN Dig.1 R	FX6-2	Effect6 OUT 2
2TD2L	2TR IN Dig.2 L	2TD2L	2TR IN Dig.2 L	FX7-1	Effect7 OUT 1
2TD2R	2TR IN Dig.2 R	2TD2R	2TR IN Dig.2 R	FX7-2	Effect7 OUT 2
2TD3L	2TR IN Dig.3 L	2TD3L	2TR IN Dig.3 L	FX8-1	Effect8 OUT 1
2TD3R	2TR IN Dig.3 R	2TD3R	2TR IN Dig.3 R	FX8-2	Effect8 OUT 2
2TA1L	2TR IN Analog1 L	2TA1L	2TR IN Analog1 L	-	-
2TA1R	2TR IN Analog1 R	2TA1R	2TR IN Analog1 R	-	-
2TA2L	2TR IN Analog2 L	2TA2L	2TR IN Analog2 L	-	-
2TA2R	2TR IN Analog2 R	2TA2R	2TR IN Analog2 R	-	-
BUS1	BUS1	-	-	-	-
BUS2	BUS2	-	-	-	-
BUS3	BUS3	-	-	-	-
BUS4	BUS4	-	-	-	-
UBS5	UBS5	-	-	-	-
BUS6	BUS6	-	-	-	-
BUS7	BUS7	-	-	-	-
BUS8	BUS8	-	-	-	-
AUX1	AUX1	-	-	-	-
AUX2	AUX2	-	-	-	-
AUX3	AUX3	-	-	-	-
AUX4	AUX4	-	-	-	-
AUX5	AUX5	-	-	-	-
AUX6	AUX6	-	-	-	-
AUX7	AUX7	-	-	-	-
AUX8	AUX8	-	-	-	-
AUX9	AUX9	-	-	-	-
AUX10	AUX10	-	-	-	-
AUX11	AUX11	-	-	-	-
AUX12	AUX12	-	-	-	-

(Input Patch)

(Input Channel Input)		(Effect Processor Input)	
1	AD01	1-1	AUX1
2	AD02	1-2	NONE
3	AD03	1-3	NONE
4	AD04	1-4	NONE
5	AD05	1-5	NONE
6	AD06	1-6	NONE
7	AD07	1-7	NONE
8	AD08	1-8	NONE
9	AD09	2-1	AUX2
10	AD10	2-2	NONE
11	AD11	2-3	NONE
12	AD12	2-4	NONE
13	AD13	2-5	NONE
14	AD14	2-6	NONE
15	AD15	2-7	NONE
16	AD16	2-8	NONE
17	AD17	3-1	AUX3
18	AD18	3-2	NONE
19	AD19	4-1	AUX4
20	AD20	4-2	NONE
21	AD21	5-1	AUX5
22	AD22	5-2	NONE
23	AD23	6-1	AUX6
24	AD24	6-2	NONE
25	S1-01	7-1	AUX7
26	S1-02	7-2	NONE
27	S1-03	8-1	AUX8
28	S1-04	8-2	NONE
29	S1-05	-	-
30	S1-06	-	-
31	S1-07	-	-
32	S1-08	-	-
33	S2-01	-	-
34	S2-02	-	-
35	S2-03	-	-
36	S2-04	-	-
37	S2-05	-	-
38	S2-06	-	-
39	S2-07	-	-
40	S2-08	-	-
41	S3-01	-	-
42	S3-02	-	-
43	S3-03	-	-
44	S3-04	-	-
45	S3-05	-	-
46	S3-06	-	-
47	S3-07	-	-

(Input Channel Input)		(Effect Processor Input)	
48	S3-08	-	-
49	S4-01	-	-
50	S4-02	-	-
51	S4-03	-	-
52	S4-04	-	-
53	S4-05	-	-
54	S4-06	-	-
55	S4-07	-	-
56	S4-08	-	-
57	S5-01	-	-
58	S5-02	-	-
59	S5-03	-	-
60	S5-04	-	-
61	S5-05	-	-
62	S5-06	-	-
63	S5-07	-	-
64	S5-08	-	-
65	S6-01	-	-
66	S6-02	-	-
67	S6-03	-	-
68	S6-04	-	-
69	S6-05	-	-
70	S6-06	-	-
71	S6-07	-	-
72	S6-08	-	-
73	FX1-1	-	-
74	FX1-2	-	-
75	FX2-1	-	-
76	FX2-2	-	-
77	FX3-1	-	-
78	FX3-2	-	-
79	FX4-1	-	-
80	FX4-2	-	-
81	FX5-1	-	-
82	FX5-2	-	-
83	FX6-1	-	-
84	FX6-2	-	-
85	FX7-1	-	-
86	FX7-2	-	-
87	FX8-1	-	-
88	FX8-2	-	-
89	2TD1L	-	-
90	2TD1R	-	-
91	2TD2L	-	-
92	2TD2R	-	-
93	2TA1L	-	-
94	2TA1R	-	-
95	2TA2L	-	-
96	2TA2R	-	-

(Output Patch Parameter)

Output), (Omni Out) (Slot
 가 (Output Channel Insert In)
 (2TR Digital Output) GEQ 가 (Direct Out), 2TR

1

(Slot Output)		(Omni Out)		(Output Channel Insert In)	
NONE	NONE	NONE	NONE	NONE	NONE
BUS1	BUS1	BUS1	BUS1	AD1	AD IN 1
BUS2	BUS2	BUS2	BUS2	AD2	AD IN 2
BUS3	BUS3	BUS3	BUS3	AD3	AD IN 3
BUS4	BUS4	BUS4	BUS4	AD4	AD IN 4
UBS5	UBS5	UBS5	UBS5	AD5	AD IN 5
BUS6	BUS6	BUS6	BUS6	AD6	AD IN 6
BUS7	BUS7	BUS7	BUS7	AD7	AD IN 7
BUS8	BUS8	BUS8	BUS8	AD8	AD IN 8
AUX1	AUX1	AUX1	AUX1	AD9	AD IN 9
AUX2	AUX2	AUX2	AUX2	AD10	AD IN 10
AUX3	AUX3	AUX3	AUX3	AD11	AD IN 11
AUX4	AUX4	AUX4	AUX4	AD12	AD IN 12
AUX5	AUX5	AUX5	AUX5	AD13	AD IN 13
AUX6	AUX6	AUX6	AUX6	AD14	AD IN 14
AUX7	AUX7	AUX7	AUX7	AD15	AD IN 15
AUX8	AUX8	AUX8	AUX8	AD16	AD IN 16
AUX9	AUX9	AUX9	AUX9	AD17	AD IN 17
AUX10	AUX10	AUX10	AUX10	AD18	AD IN 18
AUX11	AUX11	AUX11	AUX11	AD19	AD IN 19
AUX12	AUX12	AUX12	AUX12	AD20	AD IN 20
MATRIX1L	MATRIX1 L	MATRIX1L	MATRIX1 L	AD21	AD IN 21
MATRIX1R	MATRIX1 R	MATRIX1R	MATRIX1 R	AD22	AD IN 22
MATRIX2L	MATRIX2 L	MATRIX2L	MATRIX2 L	AD23	AD IN 23
MATRIX2R	MATRIX2 R	MATRIX2R	MATRIX2 R	AD24	AD IN 24
MATRIX3L	MATRIX3 L	MATRIX3L	MATRIX3 L	S1-1	Slot1 CH1 IN
MATRIX3R	MATRIX3 R	MATRIX3R	MATRIX3 R	S1-2	Slot1 CH2 IN
MATRIX4L	MATRIX4 L	MATRIX4L	MATRIX4 L	S1-3	Slot1 CH3 IN
MATRIX4R	MATRIX4 R	MATRIX4R	MATRIX4 R	S1-4	Slot1 CH4 IN
STEREO-L	STEREO L	STEREO-L	STEREO L	S1-5	Slot1 CH5 IN
STEREO-R	STEREO R	STEREO-R	STEREO R	S1-6	Slot1 CH6 IN
INSCH1	InsertOut-CH1	INSCH1	InsertOut-CH1	S1-7	Slot1 CH7 IN
INSCH2	InsertOut-CH2	INSCH2	InsertOut-CH2	S1-8	Slot1 CH8 IN
INSCH3	InsertOut-CH3	INSCH3	InsertOut-CH3	S1-9	Slot1 CH9 IN
INSCH4	InsertOut-CH4	INSCH4	InsertOut-CH4	S1-10	Slot1 CH10 IN
INSCH5	InsertOut-CH5	INSCH5	InsertOut-CH5	S1-11	Slot1 CH11 IN
INSCH6	InsertOut-CH6	INSCH6	InsertOut-CH6	S1-12	Slot1 CH12 IN
INSCH7	InsertOut-CH7	INSCH7	InsertOut-CH7	S1-13	Slot1 CH13 IN
INSCH8	InsertOut-CH8	INSCH8	InsertOut-CH8	S1-14	Slot1 CH14 IN
INSCH9	InsertOut-CH9	INSCH9	InsertOut-CH9	S1-15	Slot1 CH15 IN
INSCH10	InsertOut-CH10	INSCH10	InsertOut-CH10	S1-16	Slot1 CH16 IN
INSCH11	InsertOut-CH11	INSCH11	InsertOut-CH11	S2-1	Slot2 CH1 IN
INSCH12	InsertOut-CH12	INSCH12	InsertOut-CH12	S2-2	Slot2 CH2 IN

(Slot Output)		(Omni Out)		(Output Channel Insert In)	
INSCH13	InsertOut-CH13	INSCH13	InsertOut-CH13	S2-3	Slot2 CH3 IN
INSCH14	InsertOut-CH14	INSCH14	InsertOut-CH14	S2-4	Slot2 CH4 IN
INSCH15	InsertOut-CH15	INSCH15	InsertOut-CH15	S2-5	Slot2 CH5 IN
INSCH16	InsertOut-CH16	INSCH16	InsertOut-CH16	S2-6	Slot2 CH6 IN
INSCH17	InsertOut-CH17	INSCH17	InsertOut-CH17	S2-7	Slot2 CH7 IN
INSCH18	InsertOut-CH18	INSCH18	InsertOut-CH18	S2-8	Slot2 CH8 IN
INSCH19	InsertOut-CH19	INSCH19	InsertOut-CH19	S2-9	Slot2 CH9 IN
INSCH20	InsertOut-CH20	INSCH20	InsertOut-CH20	S2-10	Slot2 CH10 IN
INSCH21	InsertOut-CH21	INSCH21	InsertOut-CH21	S2-11	Slot2 CH11 IN
INSCH22	InsertOut-CH22	INSCH22	InsertOut-CH22	S2-12	Slot2 CH12 IN
INSCH23	InsertOut-CH23	INSCH23	InsertOut-CH23	S2-13	Slot2 CH13 IN
INSCH24	InsertOut-CH24	INSCH24	InsertOut-CH24	S2-14	Slot2 CH14 IN
INSCH25	InsertOut-CH25	INSCH25	InsertOut-CH25	S2-15	Slot2 CH15 IN
INSCH26	InsertOut-CH26	INSCH26	InsertOut-CH26	S2-16	Slot2 CH16 IN
INSCH27	InsertOut-CH27	INSCH27	InsertOut-CH27	S3-1	Slot3 CH1 IN
INSCH28	InsertOut-CH28	INSCH28	InsertOut-CH28	S3-2	Slot3 CH2 IN
INSCH29	InsertOut-CH29	INSCH29	InsertOut-CH29	S3-3	Slot3 CH3 IN
INSCH30	InsertOut-CH30	INSCH30	InsertOut-CH30	S3-4	Slot3 CH4 IN
INSCH31	InsertOut-CH31	INSCH31	InsertOut-CH31	S3-5	Slot3 CH5 IN
INSCH32	InsertOut-CH32	INSCH32	InsertOut-CH32	S3-6	Slot3 CH6 IN
INSCH33	InsertOut-CH33	INSCH33	InsertOut-CH33	S3-7	Slot3 CH7 IN
INSCH34	InsertOut-CH34	INSCH34	InsertOut-CH34	S3-8	Slot3 CH8 IN
INSCH35	InsertOut-CH35	INSCH35	InsertOut-CH35	S3-9	Slot3 CH9 IN
INSCH36	InsertOut-CH36	INSCH36	InsertOut-CH36	S3-10	Slot3 CH10 IN
INSCH37	InsertOut-CH37	INSCH37	InsertOut-CH37	S3-11	Slot3 CH11 IN
INSCH38	InsertOut-CH38	INSCH38	InsertOut-CH38	S3-12	Slot3 CH12 IN
INSCH39	InsertOut-CH39	INSCH39	InsertOut-CH39	S3-13	Slot3 CH13 IN
INSCH40	InsertOut-CH40	INSCH40	InsertOut-CH40	S3-14	Slot3 CH14 IN
INSCH41	InsertOut-CH41	INSCH41	InsertOut-CH41	S3-15	Slot3 CH15 IN
INSCH42	InsertOut-CH42	INSCH42	InsertOut-CH42	S3-16	Slot3 CH16 IN
INSCH43	InsertOut-CH43	INSCH43	InsertOut-CH43	S4-1	Slot4 CH1 IN
INSCH44	InsertOut-CH44	INSCH44	InsertOut-CH44	S4-2	Slot4 CH2 IN
INSCH45	InsertOut-CH45	INSCH45	InsertOut-CH45	S4-3	Slot4 CH3 IN
INSCH46	InsertOut-CH46	INSCH46	InsertOut-CH46	S4-4	Slot4 CH4 IN
INSCH47	InsertOut-CH47	INSCH47	InsertOut-CH47	S4-5	Slot4 CH5 IN
INSCH48	InsertOut-CH48	INSCH48	InsertOut-CH48	S4-6	Slot4 CH6 IN
INSCH49	InsertOut-CH49	INSCH49	InsertOut-CH49	S4-7	Slot4 CH7 IN
INSCH50	InsertOut-CH50	INSCH50	InsertOut-CH50	S4-8	Slot4 CH8 IN
INSCH51	InsertOut-CH51	INSCH51	InsertOut-CH51	S4-9	Slot4 CH9 IN
INSCH52	InsertOut-CH52	INSCH52	InsertOut-CH52	S4-10	Slot4 CH10 IN
INSCH53	InsertOut-CH53	INSCH53	InsertOut-CH53	S4-11	Slot4 CH11 IN
INSCH54	InsertOut-CH54	INSCH54	InsertOut-CH54	S4-12	Slot4 CH12 IN
INSCH55	InsertOut-CH55	INSCH55	InsertOut-CH55	S4-13	Slot4 CH13 IN
INSCH56	InsertOut-CH56	INSCH56	InsertOut-CH56	S4-14	Slot4 CH14 IN
INSCH57	InsertOut-CH57	INSCH57	InsertOut-CH57	S4-15	Slot4 CH15 IN
INSCH58	InsertOut-CH58	INSCH58	InsertOut-CH58	S4-16	Slot4 CH16 IN
INSCH59	InsertOut-CH59	INSCH59	InsertOut-CH59	S5-1	Slot5 CH1 IN
INSCH60	InsertOut-CH60	INSCH60	InsertOut-CH60	S5-2	Slot5 CH2 IN
INSCH61	InsertOut-CH61	INSCH61	InsertOut-CH61	S5-3	Slot5 CH3 IN
INSCH62	InsertOut-CH62	INSCH62	InsertOut-CH62	S5-4	Slot5 CH4 IN
INSCH63	InsertOut-CH63	INSCH63	InsertOut-CH63	S5-5	Slot5 CH5 IN

(Slot Output)		(Omni Out)		(Output Channel Insert In)	
INSCH64	InsertOut-CH64	INSCH64	InsertOut-CH64	S5-6	Slot5 CH6 IN
INSCH65	InsertOut-CH65	INSCH65	InsertOut-CH65	S5-7	Slot5 CH7 IN
INSCH66	InsertOut-CH66	INSCH66	InsertOut-CH66	S5-8	Slot5 CH8 IN
INSCH67	InsertOut-CH67	INSCH67	InsertOut-CH67	S5-9	Slot5 CH9 IN
INSCH68	InsertOut-CH68	INSCH68	InsertOut-CH68	S5-10	Slot5 CH10 IN
INSCH69	InsertOut-CH69	INSCH69	InsertOut-CH69	S5-11	Slot5 CH11 IN
INSCH70	InsertOut-CH70	INSCH70	InsertOut-CH70	S5-12	Slot5 CH12 IN
INSCH71	InsertOut-CH71	INSCH71	InsertOut-CH71	S5-13	Slot5 CH13 IN
INSCH72	InsertOut-CH72	INSCH72	InsertOut-CH72	S5-14	Slot5 CH14 IN
INSCH73	InsertOut-CH73	INSCH73	InsertOut-CH73	S5-15	Slot5 CH15 IN
INSCH74	InsertOut-CH74	INSCH74	InsertOut-CH74	S5-16	Slot5 CH16 IN
INSCH75	InsertOut-CH75	INSCH75	InsertOut-CH75	S6-1	Slot6 CH1 IN
INSCH76	InsertOut-CH76	INSCH76	InsertOut-CH76	S6-2	Slot6 CH2 IN
INSCH77	InsertOut-CH77	INSCH77	InsertOut-CH77	S6-3	Slot6 CH3 IN
INSCH78	InsertOut-CH78	INSCH78	InsertOut-CH78	S6-4	Slot6 CH4 IN
INSCH79	InsertOut-CH79	INSCH79	InsertOut-CH79	S6-5	Slot6 CH5 IN
INSCH80	InsertOut-CH80	INSCH80	InsertOut-CH80	S6-6	Slot6 CH6 IN
INSCH81	InsertOut-CH81	INSCH81	InsertOut-CH81	S6-7	Slot6 CH7 IN
INSCH82	InsertOut-CH82	INSCH82	InsertOut-CH82	S6-8	Slot6 CH8 IN
INSCH83	InsertOut-CH83	INSCH83	InsertOut-CH83	S6-9	Slot6 CH9 IN
INSCH84	InsertOut-CH84	INSCH84	InsertOut-CH84	S6-10	Slot6 CH10 IN
INSCH85	InsertOut-CH85	INSCH85	InsertOut-CH85	S6-11	Slot6 CH11 IN
INSCH86	InsertOut-CH86	INSCH86	InsertOut-CH86	S6-12	Slot6 CH12 IN
INSCH87	InsertOut-CH87	INSCH87	InsertOut-CH87	S6-13	Slot6 CH13 IN
INSCH88	InsertOut-CH88	INSCH88	InsertOut-CH88	S6-14	Slot6 CH14 IN
INSCH89	InsertOut-CH89	INSCH89	InsertOut-CH89	S6-15	Slot6 CH15 IN
INSCH90	InsertOut-CH90	INSCH90	InsertOut-CH90	S6-16	Slot6 CH16 IN
INSCH91	InsertOut-CH91	INSCH91	InsertOut-CH91	FX1-1	Effect1 OUT 1
INSCH92	InsertOut-CH92	INSCH92	InsertOut-CH92	FX1-2	Effect1 OUT 2
INSCH93	InsertOut-CH93	INSCH93	InsertOut-CH93	FX1-3	Effect1 OUT 3
INSCH94	InsertOut-CH94	INSCH94	InsertOut-CH94	FX1-4	Effect1 OUT 4
INSCH95	InsertOut-CH95	INSCH95	InsertOut-CH95	FX1-5	Effect1 OUT 5
INSCH96	InsertOut-CH96	INSCH96	InsertOut-CH96	FX1-6	Effect1 OUT 6
INSBUS1	InsertOut-BUS1	INSBUS1	InsertOut-BUS1	FX1-7	Effect1 OUT 7
INSBUS2	InsertOut-BUS2	INSBUS2	InsertOut-BUS2	FX1-8	Effect1 OUT 8
INSBUS3	InsertOut-BUS3	INSBUS3	InsertOut-BUS3	FX2-1	Effect2 OUT 1
INSBUS4	InsertOut-BUS4	INSBUS4	InsertOut-BUS4	FX2-2	Effect2 OUT 2
INSBUS5	InsertOut-BUS5	INSBUS5	InsertOut-BUS5	FX2-3	Effect2 OUT 3
INSBUS6	InsertOut-BUS6	INSBUS6	InsertOut-BUS6	FX2-4	Effect2 OUT 4
INSBUS7	InsertOut-BUS7	INSBUS7	InsertOut-BUS7	FX2-5	Effect2 OUT 5
INSBUS8	InsertOut-BUS8	INSBUS8	InsertOut-BUS8	FX2-6	Effect2 OUT 6
INSAUX1	InsertOut-AUX1	INSAUX1	InsertOut-AUX1	FX2-7	Effect2 OUT 7
INSAUX2	InsertOut-AUX2	INSAUX2	InsertOut-AUX2	FX2-8	Effect2 OUT 8
INSAUX3	InsertOut-AUX3	INSAUX3	InsertOut-AUX3	FX3-1	Effect3 OUT 1
INSAUX4	InsertOut-AUX4	INSAUX4	InsertOut-AUX4	FX3-2	Effect3 OUT 2
INSAUX5	InsertOut-AUX5	INSAUX5	InsertOut-AUX5	FX4-1	Effect4 OUT 1
INSAUX6	InsertOut-AUX6	INSAUX6	InsertOut-AUX6	FX4-2	Effect4 OUT 2
INSAUX7	InsertOut-AUX7	INSAUX7	InsertOut-AUX7	FX5-1	Effect5 OUT 1
INSAUX8	InsertOut-AUX8	INSAUX8	InsertOut-AUX8	FX5-2	Effect5 OUT 2
INSAUX9	InsertOut-AUX9	INSAUX9	InsertOut-AUX9	FX6-1	Effect6 OUT 1
INSAUX10	InsertOut-AUX10	INSAUX10	InsertOut-AUX10	FX6-2	Effect6 OUT 2

(Slot Output)		(Omni Out)		(Output Channel Insert In)	
INSAUX11	InsertOut-AUX11	INSAUX11	InsertOut-AUX11	FX7-1	Effect7 OUT 1
INSAUX12	InsertOut-AUX12	INSAUX12	InsertOut-AUX12	FX7-2	Effect7 OUT 2
INSMTX1L	InsertOut-MTX1L	INSMTX1L	InsertOut-MTX1L	FX8-1	Effect8 OUT 1
INSMTX1R	InsertOut-MTX1R	INSMTX1R	InsertOut-MTX1R	FX8-2	Effect8 OUT 2
INSMTX2L	InsertOut-MTX2L	INSMTX2L	InsertOut-MTX2L	2TD1L	2TR IN Dig.1 L
INSMTX2R	InsertOut-MTX2R	INSMTX2R	InsertOut-MTX2R	2TD1R	2TR IN Dig.1 R
INSMTX3L	InsertOut-MTX3L	INSMTX3L	InsertOut-MTX3L	2TD2L	2TR IN Dig.2 L
INSMTX3R	InsertOut-MTX3R	INSMTX3R	InsertOut-MTX3R	2TD2R	2TR IN Dig.2 R
INSMTX4L	InsertOut-MTX4L	INSMTX4L	InsertOut-MTX4L	2TD3L	2TR IN Dig.3 L
INSMTX4R	InsertOut-MTX4R	INSMTX4R	InsertOut-MTX4R	2TD3R	2TR IN Dig.3 R
INSSTL	InsertOut-STL	INSSTL	InsertOut-STL	2TA1L	2TR IN Analog1 L
INSSTR	InsertOut-STR	INSSTR	InsertOut-STR	2TA1R	2TR IN Analog1 R
Surr L	Surround Monitor L	Surr L	Surround Monitor L	2TA2L	2TR IN Analog2 L
Surr R	Surround Monitor R	Surr R	Surround Monitor R	2TA2R	2TR IN Analog2 R
Surr Ls	Surround Monitor Ls	Surr Ls	Surround Monitor Ls	-	-
Surr Rs	Surround Monitor Rs	Surr Rs	Surround Monitor Rs	-	-
Surr C	Surround Monitor C	Surr C	Surround Monitor C	-	-
Surr LFE	Surround Monitor LFE	Surr LFE	Surround Monitor LFE	-	-
Surr Ls2	Surround Monitor Ls2	Surr Ls2	Surround Monitor Ls2	-	-
Surr Rs2	Surround Monitor Rs2	Surr Rs2	Surround Monitor Rs2	-	-

2

	(Direct Out)	2TR	(2TR Digital Out)	GEQ	
NONE	NONE	NONE	NONE	NONE	NONE
S1-1	Slot1 CH1 OUT	BUS1	BUS1	BUS1	BUS1
S1-2	Slot1 CH2 OUT	BUS2	BUS2	BUS2	BUS2
S1-3	Slot1 CH3 OUT	BUS3	BUS3	BUS3	BUS3
S1-4	Slot1 CH4 OUT	BUS4	BUS4	BUS4	BUS4
S1-5	Slot1 CH5 OUT	UBS5	UBS5	UBS5	UBS5
S1-6	Slot1 CH6 OUT	BUS6	BUS6	BUS6	BUS6
S1-7	Slot1 CH7 OUT	BUS7	BUS7	BUS7	BUS7
S1-8	Slot1 CH8 OUT	BUS8	BUS8	BUS8	BUS8
S1-9	Slot1 CH9 OUT	AUX1	AUX1	AUX1	AUX1
S1-10	Slot1 CH10 OUT	AUX2	AUX2	AUX2	AUX2
S1-11	Slot1 CH11 OUT	AUX3	AUX3	AUX3	AUX3
S1-12	Slot1 CH12 OUT	AUX4	AUX4	AUX4	AUX4
S1-13	Slot1 CH13 OUT	AUX5	AUX5	AUX5	AUX5
S1-14	Slot1 CH14 OUT	AUX6	AUX6	AUX6	AUX6
S1-15	Slot1 CH15 OUT	AUX7	AUX7	AUX7	AUX7
S1-16	Slot1 CH16 OUT	AUX8	AUX8	AUX8	AUX8
S2-1	Slot2 CH1 OUT	AUX9	AUX9	AUX9	AUX9
S2-2	Slot2 CH2 OUT	AUX10	AUX10	AUX10	AUX10
S2-3	Slot2 CH3 OUT	AUX11	AUX11	AUX11	AUX11
S2-4	Slot2 CH4 OUT	AUX12	AUX12	AUX12	AUX12
S2-5	Slot2 CH5 OUT	MATRIX1L	MATRIX1 L	MATRIX1L	MATRIX1 L
S2-6	Slot2 CH6 OUT	MATRIX1R	MATRIX1 R	MATRIX1R	MATRIX1 R
S2-7	Slot2 CH7 OUT	MATRIX2L	MATRIX2 L	MATRIX2L	MATRIX2 L
S2-8	Slot2 CH8 OUT	MATRIX2R	MATRIX2 R	MATRIX2R	MATRIX2 R
S2-9	Slot2 CH9 OUT	MATRIX3L	MATRIX3 L	MATRIX3L	MATRIX3 L
S2-10	Slot2 CH10 OUT	MATRIX3R	MATRIX3 R	MATRIX3R	MATRIX3 R
S2-11	Slot2 CH11 OUT	MATRIX4L	MATRIX4 L	MATRIX4L	MATRIX4 L
S2-12	Slot2 CH12 OUT	MATRIX4R	MATRIX4 R	MATRIX4R	MATRIX4 R
S2-13	Slot2 CH13 OUT	STEREO-L	STEREO L	STEREO-L	STEREO L
S2-14	Slot2 CH14 OUT	STEREO-R	STEREO R	STEREO-R	STEREO R
S2-15	Slot2 CH15 OUT	INSCH1	InsertOut-CH1	-	-
S2-16	Slot2 CH16 OUT	INSCH2	InsertOut-CH2	-	-
S3-1	Slot3 CH1 OUT	INSCH3	InsertOut-CH3	-	-
S3-2	Slot3 CH2 OUT	INSCH4	InsertOut-CH4	-	-
S3-3	Slot3 CH3 OUT	INSCH5	InsertOut-CH5	-	-
S3-4	Slot3 CH4 OUT	INSCH6	InsertOut-CH6	-	-
S3-5	Slot3 CH5 OUT	INSCH7	InsertOut-CH7	-	-
S3-6	Slot3 CH6 OUT	INSCH8	InsertOut-CH8	-	-
S3-7	Slot3 CH7 OUT	INSCH9	InsertOut-CH9	-	-
S3-8	Slot3 CH8 OUT	INSCH10	InsertOut-CH10	-	-
S3-9	Slot3 CH9 OUT	INSCH11	InsertOut-CH11	-	-
S3-10	Slot3 CH10 OUT	INSCH12	InsertOut-CH12	-	-
S3-11	Slot3 CH11 OUT	INSCH13	InsertOut-CH13	-	-
S3-12	Slot3 CH12 OUT	INSCH14	InsertOut-CH14	-	-
S3-13	Slot3 CH13 OUT	INSCH15	InsertOut-CH15	-	-
S3-14	Slot3 CH14 OUT	INSCH16	InsertOut-CH16	-	-
S3-15	Slot3 CH15 OUT	INSCH17	InsertOut-CH17	-	-
S3-16	Slot3 CH16 OUT	INSCH18	InsertOut-CH18	-	-
S4-1	Slot4 CH1 OUT	INSCH19	InsertOut-CH19	-	-

	(Direct Out)	2TR	(2TR Digital Out)	GEQ	
S4-2	Slot4 CH2 OUT	INSCH20	InsertOut-CH20	-	-
S4-3	Slot4 CH3 OUT	INSCH21	InsertOut-CH21	-	-
S4-4	Slot4 CH4 OUT	INSCH22	InsertOut-CH22	-	-
S4-5	Slot4 CH5 OUT	INSCH23	InsertOut-CH23	-	-
S4-6	Slot4 CH6 OUT	INSCH24	InsertOut-CH24	-	-
S4-7	Slot4 CH7 OUT	INSCH25	InsertOut-CH25	-	-
S4-8	Slot4 CH8 OUT	INSCH26	InsertOut-CH26	-	-
S4-9	Slot4 CH9 OUT	INSCH27	InsertOut-CH27	-	-
S4-10	Slot4 CH10 OUT	INSCH28	InsertOut-CH28	-	-
S4-11	Slot4 CH11 OUT	INSCH29	InsertOut-CH29	-	-
S4-12	Slot4 CH12 OUT	INSCH30	InsertOut-CH30	-	-
S4-13	Slot4 CH13 OUT	INSCH31	InsertOut-CH31	-	-
S4-14	Slot4 CH14 OUT	INSCH32	InsertOut-CH32	-	-
S4-15	Slot4 CH15 OUT	INSCH33	InsertOut-CH33	-	-
S4-16	Slot4 CH16 OUT	INSCH34	InsertOut-CH34	-	-
S5-1	Slot5 CH1 OUT	INSCH35	InsertOut-CH35	-	-
S5-2	Slot5 CH2 OUT	INSCH36	InsertOut-CH36	-	-
S5-3	Slot5 CH3 OUT	INSCH37	InsertOut-CH37	-	-
S5-4	Slot5 CH4 OUT	INSCH38	InsertOut-CH38	-	-
S5-5	Slot5 CH5 OUT	INSCH39	InsertOut-CH39	-	-
S5-6	Slot5 CH6 OUT	INSCH40	InsertOut-CH40	-	-
S5-7	Slot5 CH7 OUT	INSCH41	InsertOut-CH41	-	-
S5-8	Slot5 CH8 OUT	INSCH42	InsertOut-CH42	-	-
S5-9	Slot5 CH9 OUT	INSCH43	InsertOut-CH43	-	-
S5-10	Slot5 CH10 OUT	INSCH44	InsertOut-CH44	-	-
S5-11	Slot5 CH11 OUT	INSCH45	InsertOut-CH45	-	-
S5-12	Slot5 CH12 OUT	INSCH46	InsertOut-CH46	-	-
S5-13	Slot5 CH13 OUT	INSCH47	InsertOut-CH47	-	-
S5-14	Slot5 CH14 OUT	INSCH48	InsertOut-CH48	-	-
S5-15	Slot5 CH15 OUT	INSCH49	InsertOut-CH49	-	-
S5-16	Slot5 CH16 OUT	INSCH50	InsertOut-CH50	-	-
S6-1	Slot6 CH1 OUT	INSCH51	InsertOut-CH51	-	-
S6-2	Slot6 CH2 OUT	INSCH52	InsertOut-CH52	-	-
S6-3	Slot6 CH3 OUT	INSCH53	InsertOut-CH53	-	-
S6-4	Slot6 CH4 OUT	INSCH54	InsertOut-CH54	-	-
S6-5	Slot6 CH5 OUT	INSCH55	InsertOut-CH55	-	-
S6-6	Slot6 CH6 OUT	INSCH56	InsertOut-CH56	-	-
S6-7	Slot6 CH7 OUT	INSCH57	InsertOut-CH57	-	-
S6-8	Slot6 CH8 OUT	INSCH58	InsertOut-CH58	-	-
S6-9	Slot6 CH9 OUT	INSCH59	InsertOut-CH59	-	-
S6-10	Slot6 CH10 OUT	INSCH60	InsertOut-CH60	-	-
S6-11	Slot6 CH11 OUT	INSCH61	InsertOut-CH61	-	-
S6-12	Slot6 CH12 OUT	INSCH62	InsertOut-CH62	-	-
S6-13	Slot6 CH13 OUT	INSCH63	InsertOut-CH63	-	-
S6-14	Slot6 CH14 OUT	INSCH64	InsertOut-CH64	-	-
S6-15	Slot6 CH15 OUT	INSCH65	InsertOut-CH65	-	-
S6-16	Slot6 CH16 OUT	INSCH66	InsertOut-CH66	-	-
OMNI1	OMNI OUT 1	INSCH67	InsertOut-CH67	-	-
OMNI2	OMNI OUT 2	INSCH68	InsertOut-CH68	-	-
OMNI3	OMNI OUT 3	INSCH69	InsertOut-CH69	-	-
OMNI4	OMNI OUT 4	INSCH70	InsertOut-CH70	-	-
OMNI5	OMNI OUT 5	INSCH71	InsertOut-CH71	-	-

	(Direct Out)	2TR	(2TR Digital Out)	GEQ	
OMNI6	OMNI OUT 6	INSCH72	InsertOut-CH72	-	-
OMNI7	OMNI OUT 7	INSCH73	InsertOut-CH73	-	-
OMNI8	OMNI OUT 8	INSCH74	InsertOut-CH74	-	-
2TD1L	2TR OUT Dig.1 L	INSCH75	InsertOut-CH75	-	-
2TD1R	2TR OUT Dig.1 R	INSCH76	InsertOut-CH76	-	-
2TD2L	2TR OUT Dig.2 L	INSCH77	InsertOut-CH77	-	-
2TD2R	2TR OUT Dig.2 R	INSCH78	InsertOut-CH78	-	-
2TD3L	2TR OUT Dig.3 L	INSCH79	InsertOut-CH79	-	-
2TD3R	2TR OUT Dig.3 R	INSCH80	InsertOut-CH80	-	-
-	-	INSCH81	InsertOut-CH81	-	-
-	-	INSCH82	InsertOut-CH82	-	-
-	-	INSCH83	InsertOut-CH83	-	-
-	-	INSCH84	InsertOut-CH84	-	-
-	-	INSCH85	InsertOut-CH85	-	-
-	-	INSCH86	InsertOut-CH86	-	-
-	-	INSCH87	InsertOut-CH87	-	-
-	-	INSCH88	InsertOut-CH88	-	-
-	-	INSCH89	InsertOut-CH89	-	-
-	-	INSCH90	InsertOut-CH90	-	-
-	-	INSCH91	InsertOut-CH91	-	-
-	-	INSCH92	InsertOut-CH92	-	-
-	-	INSCH93	InsertOut-CH93	-	-
-	-	INSCH94	InsertOut-CH94	-	-
-	-	INSCH95	InsertOut-CH95	-	-
-	-	INSCH96	InsertOut-CH96	-	-
-	-	INSBUS1	InsertOut-BUS1	-	-
-	-	INSBUS2	InsertOut-BUS2	-	-
-	-	INSBUS3	InsertOut-BUS3	-	-
-	-	INSBUS4	InsertOut-BUS4	-	-
-	-	INSBUS5	InsertOut-BUS5	-	-
-	-	INSBUS6	InsertOut-BUS6	-	-
-	-	INSBUS7	InsertOut-BUS7	-	-
-	-	INSBUS8	InsertOut-BUS8	-	-
-	-	INSAUX1	InsertOut-AUX1	-	-
-	-	INSAUX2	InsertOut-AUX2	-	-
-	-	INSAUX3	InsertOut-AUX3	-	-
-	-	INSAUX4	InsertOut-AUX4	-	-
-	-	INSAUX5	InsertOut-AUX5	-	-
-	-	INSAUX6	InsertOut-AUX6	-	-
-	-	INSAUX7	InsertOut-AUX7	-	-
-	-	INSAUX8	InsertOut-AUX8	-	-
-	-	INSAUX9	InsertOut-AUX9	-	-
-	-	INSAUX10	InsertOut-AUX10	-	-
-	-	INSAUX11	InsertOut-AUX11	-	-
-	-	INSAUX12	InsertOut-AUX12	-	-
-	-	INSMTX1L	InsertOut-MTX1L	-	-
-	-	INSMTX1R	InsertOut-MTX1R	-	-
-	-	INSMTX2L	InsertOut-MTX2L	-	-
-	-	INSMTX2R	InsertOut-MTX2R	-	-
-	-	INSMTX3L	InsertOut-MTX3L	-	-
-	-	INSMTX3R	InsertOut-MTX3R	-	-
-	-	INSMTX4L	InsertOut-MTX4L	-	-

(Direct Out)		2TR	(2TR Digital Out)	GEQ	
-	-	INSMTX4R	InsertOut-MTX4R	-	-
-	-	INSSTL	InsertOut-STL	-	-
-	-	INSSTR	InsertOut-STR	-	-
-	-	CR-L	Control Room L	-	-
-	-	CR-R	Control Room R	-	-

(Output Patch)

(Slot Output)		(Omni Out)		(Direct Out)	
SLOT1-01	BUS1	1	AUX1	1	SLOT1-01
SLOT1-02	BUS2	2	AUX2	2	SLOT1-02
SLOT1-03	BUS3	3	AUX3	3	SLOT1-03
SLOT1-04	BUS4	4	AUX4	4	SLOT1-04
SLOT1-05	UBS5	5	AUX5	5	SLOT1-05
SLOT1-06	BUS6	6	AUX6	6	SLOT1-06
SLOT1-07	BUS7	7	AUX7	7	SLOT1-07
SLOT1-08	BUS8	8	AUX8	8	SLOT1-08
SLOT1-09	NONE	-	-	9	SLOT2-01
SLOT1-10	NONE	-	-	10	SLOT2-02
SLOT1-11	NONE	-	-	11	SLOT2-03
SLOT1-12	NONE	-	-	12	SLOT2-04
SLOT1-13	NONE	-	-	13	SLOT2-05
SLOT1-14	NONE	-	-	14	SLOT2-06
SLOT1-15	NONE	-	-	15	SLOT2-07
SLOT1-16	NONE	-	-	16	SLOT2-08
SLOT2-01	BUS1	-	-	17	SLOT3-01
SLOT2-02	BUS2	-	-	18	SLOT3-02
SLOT2-03	BUS3	-	-	19	SLOT3-03
SLOT2-04	BUS4	-	-	20	SLOT3-04
SLOT2-05	UBS5	-	-	21	SLOT3-05
SLOT2-06	BUS6	-	-	22	SLOT3-06
SLOT2-07	BUS7	-	-	23	SLOT3-07
SLOT2-08	BUS8	-	-	24	SLOT3-08
SLOT2-09	NONE	-	-	25	SLOT4-01
SLOT2-10	NONE	-	-	26	SLOT4-02
SLOT2-11	NONE	-	-	27	SLOT4-03
SLOT2-12	NONE	-	-	28	SLOT4-04
SLOT2-13	NONE	-	-	29	SLOT4-05
SLOT2-14	NONE	-	-	30	SLOT4-06
SLOT2-15	NONE	-	-	31	SLOT4-07
SLOT2-16	NONE	-	-	32	SLOT4-08
SLOT3-01	BUS1	-	-	33	SLOT5-01
SLOT3-02	BUS2	-	-	34	SLOT5-02
SLOT3-03	BUS3	-	-	35	SLOT5-03
SLOT3-04	BUS4	-	-	36	SLOT5-04
SLOT3-05	UBS5	-	-	37	SLOT5-05
SLOT3-06	BUS6	-	-	38	SLOT5-06
SLOT3-07	BUS7	-	-	39	SLOT5-07
SLOT3-08	BUS8	-	-	40	SLOT5-08
SLOT3-09	NONE	-	-	41	SLOT6-01
SLOT3-10	NONE	-	-	42	SLOT6-02
SLOT3-11	NONE	-	-	43	SLOT6-03
SLOT3-12	NONE	-	-	44	SLOT6-04
SLOT3-13	NONE	-	-	45	SLOT6-05
SLOT3-14	NONE	-	-	46	SLOT6-06
SLOT3-15	NONE	-	-	47	SLOT6-07
SLOT3-16	NONE	-	-	48	SLOT6-08
SLOT4-01	BUS1	-	-	49	NONE

(Slot Output)		(Omni Out)		(Direct Out)	
SLOT4-02	BUS2	-	-	50	NONE
SLOT4-03	BUS3	-	-	51	NONE
SLOT4-04	BUS4	-	-	52	NONE
SLOT4-05	UBS5	-	-	53	NONE
SLOT4-06	BUS6	-	-	54	NONE
SLOT4-07	BUS7	-	-	55	NONE
SLOT4-08	BUS8	-	-	56	NONE
SLOT4-09	NONE	-	-	57	NONE
SLOT4-10	NONE	-	-	58	NONE
SLOT4-11	NONE	-	-	59	NONE
SLOT4-12	NONE	-	-	60	NONE
SLOT4-13	NONE	-	-	61	NONE
SLOT4-14	NONE	-	-	62	NONE
SLOT4-15	NONE	-	-	63	NONE
SLOT4-16	NONE	-	-	64	NONE
SLOT5-01	BUS1	-	-	65	NONE
SLOT5-02	BUS2	-	-	66	NONE
SLOT5-03	BUS3	-	-	67	NONE
SLOT5-04	BUS4	-	-	68	NONE
SLOT5-05	UBS5	-	-	69	NONE
SLOT5-06	BUS6	-	-	70	NONE
SLOT5-07	BUS7	-	-	71	NONE
SLOT5-08	BUS8	-	-	72	NONE
SLOT5-09	NONE	-	-	73	NONE
SLOT5-10	NONE	-	-	74	NONE
SLOT5-11	NONE	-	-	75	NONE
SLOT5-12	NONE	-	-	76	NONE
SLOT5-13	NONE	-	-	77	NONE
SLOT5-14	NONE	-	-	78	NONE
SLOT5-15	NONE	-	-	79	NONE
SLOT5-16	NONE	-	-	80	NONE
SLOT6-01	BUS1	-	-	81	NONE
SLOT6-02	BUS2	-	-	82	NONE
SLOT6-03	BUS3	-	-	83	NONE
SLOT6-04	BUS4	-	-	84	NONE
SLOT6-05	UBS5	-	-	85	NONE
SLOT6-06	BUS6	-	-	86	NONE
SLOT6-07	BUS7	-	-	87	NONE
SLOT6-08	BUS8	-	-	88	NONE
SLOT6-09	NONE	-	-	89	NONE
SLOT6-10	NONE	-	-	90	NONE
SLOT6-11	NONE	-	-	91	NONE
SLOT6-12	NONE	-	-	92	NONE
SLOT6-13	NONE	-	-	93	NONE
SLOT6-14	NONE	-	-	94	NONE
SLOT6-15	NONE	-	-	95	NONE
SLOT6-16	NONE	-	-	96	NONE

(Input Channel)

(Input Channel) ID		
CH01	CH01	CH01
CH02	CH02	CH02
CH03	CH03	CH03
CH04	CH04	CH04
CH05	CH05	CH05
CH06	CH06	CH06
CH07	CH07	CH07
CH08	CH08	CH08
CH09	CH09	CH09
CH10	CH10	CH10
CH11	CH11	CH11
CH12	CH12	CH12
CH13	CH13	CH13
CH14	CH14	CH14
CH15	CH15	CH15
CH16	CH16	CH16
CH17	CH17	CH17
CH18	CH18	CH18
CH19	CH19	CH19
CH20	CH20	CH20
CH21	CH21	CH21
CH22	CH22	CH22
CH23	CH23	CH23
CH24	CH24	CH24
CH25	CH25	CH25
CH26	CH26	CH26
CH27	CH27	CH27
CH28	CH28	CH28
CH29	CH29	CH29
CH30	CH30	CH30
CH31	CH31	CH31
CH32	CH32	CH32
CH33	CH33	CH33
CH34	CH34	CH34
CH35	CH35	CH35
CH36	CH36	CH36
CH37	CH37	CH37
CH38	CH38	CH38
CH39	CH39	CH39
CH40	CH40	CH40
CH41	CH41	CH41
CH42	CH42	CH42
CH43	CH43	CH43
CH44	CH44	CH44
CH45	CH45	CH45
CH46	CH46	CH46
CH47	CH47	CH47

(Input Channel) ID		
CH48	CH48	CH48
CH49	CH49	CH49
CH50	CH50	CH50
CH51	CH51	CH51
CH52	CH52	CH52
CH53	CH53	CH53
CH54	CH54	CH54
CH55	CH55	CH55
CH56	CH56	CH56
CH57	CH57	CH57
CH58	CH58	CH58
CH59	CH59	CH59
CH60	CH60	CH60
CH61	CH61	CH61
CH62	CH62	CH62
CH63	CH63	CH63
CH64	CH64	CH64
CH65	CH65	CH65
CH66	CH66	CH66
CH67	CH67	CH67
CH68	CH68	CH68
CH69	CH69	CH69
CH70	CH70	CH70
CH71	CH71	CH71
CH72	CH72	CH72
CH73	CH73	CH73
CH74	CH74	CH74
CH75	CH75	CH75
CH76	CH76	CH76
CH77	CH77	CH77
CH78	CH78	CH78
CH79	CH79	CH79
CH80	CH80	CH80
CH81	CH81	CH81
CH82	CH82	CH82
CH83	CH83	CH83
CH84	CH84	CH84
CH85	CH85	CH85
CH86	CH86	CH86
CH87	CH87	CH87
CH88	CH88	CH88
CH89	CH89	CH89
CH90	CH90	CH90
CH91	CH91	CH91
CH92	CH92	CH92
CH93	CH93	CH93
CH94	CH94	CH94
CH95	CH95	CH95
CH96	CH96	CH96

(Output Channel)

(Output Channel) ID		
BUS1	BUS1	BUS1
BUS2	BUS2	BUS2
BUS3	BUS3	BUS3
BUS4	BUS4	BUS4
UBS5	UBS5	UBS5
BUS6	BUS6	BUS6
BUS7	BUS7	BUS7
BUS8	BUS8	BUS8
AUX1	AUX1	AUX1
AUX2	AUX2	AUX2
AUX3	AUX3	AUX3

(Output Channel) ID		
AUX4	AUX4	AUX4
AUX5	AUX5	AUX5
AUX6	AUX6	AUX6
AUX7	AUX7	AUX7
AUX8	AUX8	AUX8
AUX9	AUX9	AUX9
AX10	AX10	AUX10
AX11	AX11	AUX11
AX12	AX12	AUX12
MTX1	MTX1	MATRIX1
MTX2	MTX2	MATRIX2
MTX3	MTX3	MATRIX3
MTX4	MTX4	MATRIX4
ST	ST	STEREO

(Input Port)

	ID		
AD1	AD01	AD01	AD IN 1
AD2	AD02	AD02	AD IN 2
AD3	AD03	AD03	AD IN 3
AD4	AD04	AD04	AD IN 4
AD5	AD05	AD05	AD IN 5
AD6	AD06	AD06	AD IN 6
AD7	AD07	AD07	AD IN 7
AD8	AD08	AD08	AD IN 8
AD9	AD09	AD09	AD IN 9
AD10	AD10	AD10	AD IN 10
AD11	AD11	AD11	AD IN 11
AD12	AD12	AD12	AD IN 12
AD13	AD13	AD13	AD IN 13
AD14	AD14	AD14	AD IN 14
AD15	AD15	AD15	AD IN 15
AD16	AD16	AD16	AD IN 16
AD17	AD17	AD17	AD IN 17
AD18	AD18	AD18	AD IN 18
AD19	AD19	AD19	AD IN 19
AD20	AD20	AD20	AD IN 20
AD21	AD21	AD21	AD IN 21
AD22	AD22	AD22	AD IN 22
AD23	AD23	AD23	AD IN 23
AD24	AD24	AD24	AD IN 24
SLOT1-01	S1-01	S101	Slot1 CH1 IN
SLOT1-02	S1-02	S102	Slot1 CH2 IN
SLOT1-03	S1-03	S103	Slot1 CH3 IN
SLOT1-04	S1-04	S104	Slot1 CH4 IN
SLOT1-05	S1-05	S105	Slot1 CH5 IN
SLOT1-06	S1-06	S106	Slot1 CH6 IN
SLOT1-07	S1-07	S107	Slot1 CH7 IN
SLOT1-08	S1-08	S108	Slot1 CH8 IN
SLOT1-09	S1-09	S109	Slot1 CH9 IN
SLOT1-10	S1-10	S110	Slot1 CH10 IN
SLOT1-11	S1-11	S111	Slot1 CH11 IN
SLOT1-12	S1-12	S112	Slot1 CH12 IN
SLOT1-13	S1-13	S113	Slot1 CH13 IN
SLOT1-14	S1-14	S114	Slot1 CH14 IN
SLOT1-15	S1-15	S115	Slot1 CH15 IN
SLOT1-16	S1-16	S116	Slot1 CH16 IN
SLOT2-01	S2-01	S201	Slot2 CH1 IN
SLOT2-02	S2-02	S202	Slot2 CH2 IN
SLOT2-03	S2-03	S203	Slot2 CH3 IN
SLOT2-04	S2-04	S204	Slot2 CH4 IN
SLOT2-05	S2-05	S205	Slot2 CH5 IN
SLOT2-06	S2-06	S206	Slot2 CH6 IN
SLOT2-07	S2-07	S207	Slot2 CH7 IN
SLOT2-08	S2-08	S208	Slot2 CH8 IN
SLOT2-09	S2-09	S209	Slot2 CH9 IN
SLOT2-10	S2-10	S210	Slot2 CH10 IN

	ID		
SLOT2-11	S2-11	S211	Slot2 CH11 IN
SLOT2-12	S2-12	S212	Slot2 CH12 IN
SLOT2-13	S2-13	S213	Slot2 CH13 IN
SLOT2-14	S2-14	S214	Slot2 CH14 IN
SLOT2-15	S2-15	S215	Slot2 CH15 IN
SLOT2-16	S2-16	S216	Slot2 CH16 IN
SLOT3-01	S3-01	S301	Slot3 CH1 IN
SLOT3-02	S3-02	S302	Slot3 CH2 IN
SLOT3-03	S3-03	S303	Slot3 CH3 IN
SLOT3-04	S3-04	S304	Slot3 CH4 IN
SLOT3-05	S3-05	S305	Slot3 CH5 IN
SLOT3-06	S3-06	S306	Slot3 CH6 IN
SLOT3-07	S3-07	S307	Slot3 CH7 IN
SLOT3-08	S3-08	S308	Slot3 CH8 IN
SLOT3-09	S3-09	S309	Slot3 CH9 IN
SLOT3-10	S3-10	S310	Slot3 CH10 IN
SLOT3-11	S3-11	S311	Slot3 CH11 IN
SLOT3-12	S3-12	S312	Slot3 CH12 IN
SLOT3-13	S3-13	S313	Slot3 CH13 IN
SLOT3-14	S3-14	S314	Slot3 CH14 IN
SLOT3-15	S3-15	S315	Slot3 CH15 IN
SLOT3-16	S3-16	S316	Slot3 CH16 IN
SLOT4-01	S4-01	S401	Slot4 CH1 IN
SLOT4-02	S4-02	S402	Slot4 CH2 IN
SLOT4-03	S4-03	S403	Slot4 CH3 IN
SLOT4-04	S4-04	S404	Slot4 CH4 IN
SLOT4-05	S4-05	S405	Slot4 CH5 IN
SLOT4-06	S4-06	S406	Slot4 CH6 IN
SLOT4-07	S4-07	S407	Slot4 CH7 IN
SLOT4-08	S4-08	S408	Slot4 CH8 IN
SLOT4-09	S4-09	S409	Slot4 CH9 IN
SLOT4-10	S4-10	S410	Slot4 CH10 IN
SLOT4-11	S4-11	S411	Slot4 CH11 IN
SLOT4-12	S4-12	S412	Slot4 CH12 IN
SLOT4-13	S4-13	S413	Slot4 CH13 IN
SLOT4-14	S4-14	S414	Slot4 CH14 IN
SLOT4-15	S4-15	S415	Slot4 CH15 IN
SLOT4-16	S4-16	S416	Slot4 CH16 IN
SLOT5-01	S5-01	S501	Slot5 CH1 IN
SLOT5-02	S5-02	S502	Slot5 CH2 IN
SLOT5-03	S5-03	S503	Slot5 CH3 IN
SLOT5-04	S5-04	S504	Slot5 CH4 IN
SLOT5-05	S5-05	S505	Slot5 CH5 IN
SLOT5-06	S5-06	S506	Slot5 CH6 IN
SLOT5-07	S5-07	S507	Slot5 CH7 IN
SLOT5-08	S5-08	S508	Slot5 CH8 IN
SLOT5-09	S5-09	S509	Slot5 CH9 IN
SLOT5-10	S5-10	S510	Slot5 CH10 IN
SLOT5-11	S5-11	S511	Slot5 CH11 IN
SLOT5-12	S5-12	S512	Slot5 CH12 IN
SLOT5-13	S5-13	S513	Slot5 CH13 IN
SLOT5-14	S5-14	S514	Slot5 CH14 IN

	ID		
SLOT5-15	S5-15	S515	Slot5 CH15 IN
SLOT5-16	S5-16	S516	Slot5 CH16 IN
SLOT6-01	S6-01	S601	Slot6 CH1 IN
SLOT6-02	S6-02	S602	Slot6 CH2 IN
SLOT6-03	S6-03	S603	Slot6 CH3 IN
SLOT6-04	S6-04	S604	Slot6 CH4 IN
SLOT6-05	S6-05	S605	Slot6 CH5 IN
SLOT6-06	S6-06	S606	Slot6 CH6 IN
SLOT6-07	S6-07	S607	Slot6 CH7 IN
SLOT6-08	S6-08	S608	Slot6 CH8 IN
SLOT6-09	S6-09	S609	Slot6 CH9 IN
SLOT6-10	S6-10	S610	Slot6 CH10 IN
SLOT6-11	S6-11	S611	Slot6 CH11 IN
SLOT6-12	S6-12	S612	Slot6 CH12 IN
SLOT6-13	S6-13	S613	Slot6 CH13 IN
SLOT6-14	S6-14	S614	Slot6 CH14 IN
SLOT6-15	S6-15	S615	Slot6 CH15 IN
SLOT6-16	S6-16	S616	Slot6 CH16 IN
2TD1L	2TD1L	2D1L	2TR IN Dig.1 L
2TD1R	2TD1R	2D1R	2TR IN Dig.1 R
2TD2L	2TD2L	2D2L	2TR IN Dig.2 L
2TD2R	2TD2R	2D2R	2TR IN Dig.2 R
2TD3L	2TD3L	2D3L	2TR IN Dig.3 L
2TD3R	2TD3R	2D3R	2TR IN Dig.3 R
2TA1L	2TA1L	2A1L	2TR IN Analog1 L
2TA1R	2TA1R	2A1R	2TR IN Analog1 R
2TA2L	2TA2L	2A2L	2TR IN Analog2 L
2TA2R	2TA2R	2A2R	2TR IN Analog2 R

(Output Port)

	ID		
SLOT1-01	S1-01	S101	Slot1 CH1 OUT
SLOT1-02	S1-02	S102	Slot1 CH2 OUT
SLOT1-03	S1-03	S103	Slot1 CH3 OUT
SLOT1-04	S1-04	S104	Slot1 CH4 OUT
SLOT1-05	S1-05	S105	Slot1 CH5 OUT
SLOT1-06	S1-06	S106	Slot1 CH6 OUT
SLOT1-07	S1-07	S107	Slot1 CH7 OUT
SLOT1-08	S1-08	S108	Slot1 CH8 OUT
SLOT1-09	S1-09	S109	Slot1 CH9 OUT
SLOT1-10	S1-10	S110	Slot1 CH10 OUT
SLOT1-11	S1-11	S111	Slot1 CH11 OUT
SLOT1-12	S1-12	S112	Slot1 CH12 OUT
SLOT1-13	S1-13	S113	Slot1 CH13 OUT
SLOT1-14	S1-14	S114	Slot1 CH14 OUT
SLOT1-15	S1-15	S115	Slot1 CH15 OUT
SLOT1-16	S1-16	S116	Slot1 CH16 OUT
SLOT2-01	S2-01	S201	Slot2 CH1 OUT
SLOT2-02	S2-02	S202	Slot2 CH2 OUT
SLOT2-03	S2-03	S203	Slot2 CH3 OUT
SLOT2-04	S2-04	S204	Slot2 CH4 OUT
SLOT2-05	S2-05	S205	Slot2 CH5 OUT
SLOT2-06	S2-06	S206	Slot2 CH6 OUT
SLOT2-07	S2-07	S207	Slot2 CH7 OUT
SLOT2-08	S2-08	S208	Slot2 CH8 OUT
SLOT2-09	S2-09	S209	Slot2 CH9 OUT
SLOT2-10	S2-10	S210	Slot2 CH10 OUT
SLOT2-11	S2-11	S211	Slot2 CH11 OUT
SLOT2-12	S2-12	S212	Slot2 CH12 OUT
SLOT2-13	S2-13	S213	Slot2 CH13 OUT
SLOT2-14	S2-14	S214	Slot2 CH14 OUT
SLOT2-15	S2-15	S215	Slot2 CH15 OUT
SLOT2-16	S2-16	S216	Slot2 CH16 OUT
SLOT3-01	S3-01	S301	Slot3 CH1 OUT
SLOT3-02	S3-02	S302	Slot3 CH2 OUT
SLOT3-03	S3-03	S303	Slot3 CH3 OUT
SLOT3-04	S3-04	S304	Slot3 CH4 OUT
SLOT3-05	S3-05	S305	Slot3 CH5 OUT
SLOT3-06	S3-06	S306	Slot3 CH6 OUT
SLOT3-07	S3-07	S307	Slot3 CH7 OUT
SLOT3-08	S3-08	S308	Slot3 CH8 OUT
SLOT3-09	S3-09	S309	Slot3 CH9 OUT
SLOT3-10	S3-10	S310	Slot3 CH10 OUT
SLOT3-11	S3-11	S311	Slot3 CH11 OUT
SLOT3-12	S3-12	S312	Slot3 CH12 OUT
SLOT3-13	S3-13	S313	Slot3 CH13 OUT
SLOT3-14	S3-14	S314	Slot3 CH14 OUT
SLOT3-15	S3-15	S315	Slot3 CH15 OUT
SLOT3-16	S3-16	S316	Slot3 CH16 OUT
SLOT4-01	S4-01	S401	Slot4 CH1 OUT
SLOT4-02	S4-02	S402	Slot4 CH2 OUT
SLOT4-03	S4-03	S403	Slot4 CH3 OUT
SLOT4-04	S4-04	S404	Slot4 CH4 OUT
SLOT4-05	S4-05	S405	Slot4 CH5 OUT
SLOT4-06	S4-06	S406	Slot4 CH6 OUT

	ID		
SLOT4-07	S4-07	S407	Slot4 CH7 OUT
SLOT4-08	S4-08	S408	Slot4 CH8 OUT
SLOT4-09	S4-09	S409	Slot4 CH9 OUT
SLOT4-10	S4-10	S410	Slot4 CH10 OUT
SLOT4-11	S4-11	S411	Slot4 CH11 OUT
SLOT4-12	S4-12	S412	Slot4 CH12 OUT
SLOT4-13	S4-13	S413	Slot4 CH13 OUT
SLOT4-14	S4-14	S414	Slot4 CH14 OUT
SLOT4-15	S4-15	S415	Slot4 CH15 OUT
SLOT4-16	S4-16	S416	Slot4 CH16 OUT
SLOT5-01	S5-01	S501	Slot5 CH1 OUT
SLOT5-02	S5-02	S502	Slot5 CH2 OUT
SLOT5-03	S5-03	S503	Slot5 CH3 OUT
SLOT5-04	S5-04	S504	Slot5 CH4 OUT
SLOT5-05	S5-05	S505	Slot5 CH5 OUT
SLOT5-06	S5-06	S506	Slot5 CH6 OUT
SLOT5-07	S5-07	S507	Slot5 CH7 OUT
SLOT5-08	S5-08	S508	Slot5 CH8 OUT
SLOT5-09	S5-09	S509	Slot5 CH9 OUT
SLOT5-10	S5-10	S510	Slot5 CH10 OUT
SLOT5-11	S5-11	S511	Slot5 CH11 OUT
SLOT5-12	S5-12	S512	Slot5 CH12 OUT
SLOT5-13	S5-13	S513	Slot5 CH13 OUT
SLOT5-14	S5-14	S514	Slot5 CH14 OUT
SLOT5-15	S5-15	S515	Slot5 CH15 OUT
SLOT5-16	S5-16	S516	Slot5 CH16 OUT
SLOT6-01	S6-01	S601	Slot6 CH1 OUT
SLOT6-02	S6-02	S602	Slot6 CH2 OUT
SLOT6-03	S6-03	S603	Slot6 CH3 OUT
SLOT6-04	S6-04	S604	Slot6 CH4 OUT
SLOT6-05	S6-05	S605	Slot6 CH5 OUT
SLOT6-06	S6-06	S606	Slot6 CH6 OUT
SLOT6-07	S6-07	S607	Slot6 CH7 OUT
SLOT6-08	S6-08	S608	Slot6 CH8 OUT
SLOT6-09	S6-09	S609	Slot6 CH9 OUT
SLOT6-10	S6-10	S610	Slot6 CH10 OUT
SLOT6-11	S6-11	S611	Slot6 CH11 OUT
SLOT6-12	S6-12	S612	Slot6 CH12 OUT
SLOT6-13	S6-13	S613	Slot6 CH13 OUT
SLOT6-14	S6-14	S614	Slot6 CH14 OUT
SLOT6-15	S6-15	S615	Slot6 CH15 OUT
SLOT6-16	S6-16	S616	Slot6 CH16 OUT
OMNI1	OMNI1	OMN1	OMNI OUT 1
OMNI2	OMNI2	OMN2	OMNI OUT 2
OMNI3	OMNI3	OMN3	OMNI OUT 3
OMNI4	OMNI4	OMN4	OMNI OUT 4
OMNI5	OMNI5	OMN5	OMNI OUT 5
OMNI6	OMNI6	OMN6	OMNI OUT 6
OMNI7	OMNI7	OMN7	OMNI OUT 7
OMNI8	OMNI8	OMN8	OMNI OUT 8
2TD1L	2TD1L	2D1L	2TR OUT Dig.1L
2TD1R	2TD1R	2D1R	2TR OUT Dig.1R
2TD2L	2TD2L	2D2L	2TR OUT Dig.2L
2TD2R	2TD2R	2D2R	2TR OUT Dig.2R
2TD3L	2TD3L	2D3L	2TR OUT Dig.3L
2TD3R	2TD3R	2D3R	2TR OUT Dig.3R

GPI (GPI Trigger)

0	No Assign
1	CH1 FADER ON
2	CH2 FADER ON
3	CH3 FADER ON
4	CH4 FADER ON
5	CH5 FADER ON
6	CH6 FADER ON
7	CH7 FADER ON
8	CH8 FADER ON
9	CH9 FADER ON
10	CH10 FADER ON
11	CH11 FADER ON
12	CH12 FADER ON
13	CH13 FADER ON
14	CH14 FADER ON
15	CH15 FADER ON
16	CH16 FADER ON
17	CH17 FADER ON
18	CH18 FADER ON
19	CH19 FADER ON
20	CH20 FADER ON
21	CH21 FADER ON
22	CH22 FADER ON
23	CH23 FADER ON
24	CH24 FADER ON
25	CH25 FADER ON
26	CH26 FADER ON
27	CH27 FADER ON
28	CH28 FADER ON
29	CH29 FADER ON
30	CH30 FADER ON
31	CH31 FADER ON
32	CH32 FADER ON
33	CH33 FADER ON
34	CH34 FADER ON
35	CH35 FADER ON
36	CH36 FADER ON
37	CH37 FADER ON
38	CH38 FADER ON
39	CH39 FADER ON
40	CH40 FADER ON
41	CH41 FADER ON
42	CH42 FADER ON
43	CH43 FADER ON
44	CH44 FADER ON
45	CH45 FADER ON
46	CH46 FADER ON
47	CH47 FADER ON
48	CH48 FADER ON
49	CH49 FADER ON
50	CH50 FADER ON
51	CH51 FADER ON
52	CH52 FADER ON

53	CH53 FADER ON
54	CH54 FADER ON
55	CH55 FADER ON
56	CH56 FADER ON
57	CH57 FADER ON
58	CH58 FADER ON
59	CH59 FADER ON
60	CH60 FADER ON
61	CH61 FADER ON
62	CH62 FADER ON
63	CH63 FADER ON
64	CH64 FADER ON
65	CH65 FADER ON
66	CH66 FADER ON
67	CH67 FADER ON
68	CH68 FADER ON
69	CH69 FADER ON
70	CH70 FADER ON
71	CH71 FADER ON
72	CH72 FADER ON
73	CH73 FADER ON
74	CH74 FADER ON
75	CH75 FADER ON
76	CH76 FADER ON
77	CH77 FADER ON
78	CH78 FADER ON
79	CH79 FADER ON
80	CH80 FADER ON
81	CH81 FADER ON
82	CH82 FADER ON
83	CH83 FADER ON
84	CH84 FADER ON
85	CH85 FADER ON
86	CH86 FADER ON
87	CH87 FADER ON
88	CH88 FADER ON
89	CH89 FADER ON
90	CH90 FADER ON
91	CH91 FADER ON
92	CH92 FADER ON
93	CH93 FADER ON
94	CH94 FADER ON
95	CH95 FADER ON
96	CH96 FADER ON
97	BUS1 FADER ON
98	BUS2 FADER ON
99	BUS3 FADER ON
100	BUS4 FADER ON
101	BUS5 FADER ON
102	BUS6 FADER ON
103	BUS7 FADER ON
104	BUS8 FADER ON
105	AUX1 FADER ON
106	AUX2 FADER ON
107	AUX3 FADER ON

108	AUX4 FADER ON
109	AUX5 FADER ON
110	AUX6 FADER ON
111	AUX7 FADER ON
112	AUX8 FADER ON
113	AUX9 FADER ON
114	AUX10 FADER ON
115	AUX11 FADER ON
116	AUX12 FADER ON
117	MATRIX1 FADER ON
118	MATRIX2 FADER ON
119	MATRIX3 FADER ON
120	MATRIX4 FADER ON
121	STEREO FADER ON
122	CH1 FADER OFF
123	CH2 FADER OFF
124	CH3 FADER OFF
125	CH4 FADER OFF
126	CH5 FADER OFF
127	CH6 FADER OFF
128	CH7 FADER OFF
129	CH8 FADER OFF
130	CH9 FADER OFF
131	CH10 FADER OFF
132	CH11 FADER OFF
133	CH12 FADER OFF
134	CH13 FADER OFF
135	CH14 FADER OFF
136	CH15 FADER OFF
137	CH16 FADER OFF
138	CH17 FADER OFF
139	CH18 FADER OFF
140	CH19 FADER OFF
141	CH20 FADER OFF
142	CH21 FADER OFF
143	CH22 FADER OFF
144	CH23 FADER OFF
145	CH24 FADER OFF
146	CH25 FADER OFF
147	CH26 FADER OFF
148	CH27 FADER OFF
149	CH28 FADER OFF
150	CH29 FADER OFF
151	CH30 FADER OFF
152	CH31 FADER OFF
153	CH32 FADER OFF
154	CH33 FADER OFF
155	CH34 FADER OFF
156	CH35 FADER OFF
157	CH36 FADER OFF
158	CH37 FADER OFF
159	CH38 FADER OFF
160	CH39 FADER OFF
161	CH40 FADER OFF
162	CH41 FADER OFF

163	CH42 FADER OFF
164	CH43 FADER OFF
165	CH44 FADER OFF
166	CH45 FADER OFF
167	CH46 FADER OFF
168	CH47 FADER OFF
169	CH48 FADER OFF
170	CH49 FADER OFF
171	CH50 FADER OFF
172	CH51 FADER OFF
173	CH52 FADER OFF
174	CH53 FADER OFF
175	CH54 FADER OFF
176	CH55 FADER OFF
177	CH56 FADER OFF
178	CH57 FADER OFF
179	CH58 FADER OFF
180	CH59 FADER OFF
181	CH60 FADER OFF
182	CH61 FADER OFF
183	CH62 FADER OFF
184	CH63 FADER OFF
185	CH64 FADER OFF
186	CH65 FADER OFF
187	CH66 FADER OFF
188	CH67 FADER OFF
189	CH68 FADER OFF
190	CH69 FADER OFF
191	CH70 FADER OFF
192	CH71 FADER OFF
193	CH72 FADER OFF
194	CH73 FADER OFF
195	CH74 FADER OFF
196	CH75 FADER OFF
197	CH76 FADER OFF
198	CH77 FADER OFF
199	CH78 FADER OFF
200	CH79 FADER OFF
201	CH80 FADER OFF
202	CH81 FADER OFF
203	CH82 FADER OFF
204	CH83 FADER OFF
205	CH84 FADER OFF
206	CH85 FADER OFF
207	CH86 FADER OFF
208	CH87 FADER OFF
209	CH88 FADER OFF
210	CH89 FADER OFF
211	CH90 FADER OFF
212	CH91 FADER OFF
213	CH92 FADER OFF
214	CH93 FADER OFF
215	CH94 FADER OFF
216	CH95 FADER OFF
217	CH96 FADER OFF

218	BUS1 FADER OFF
219	BUS2 FADER OFF
220	BUS3 FADER OFF
221	BUS4 FADER OFF
222	BUS5 FADER OFF
223	BUS6 FADER OFF
224	BUS7 FADER OFF
225	BUS8 FADER OFF
226	AUX1 FADER OFF
227	AUX2 FADER OFF
228	AUX3 FADER OFF
229	AUX4 FADER OFF
230	AUX5 FADER OFF
231	AUX6 FADER OFF
232	AUX7 FADER OFF
233	AUX8 FADER OFF
234	AUX9 FADER OFF
235	AUX10 FADER OFF
236	AUX11 FADER OFF
237	AUX12 FADER OFF
238	MATRIX1 FADER OFF
239	MATRIX2 FADER OFF
240	MATRIX3 FADER OFF
241	MATRIX4 FADER OFF
242	STEREO FADER OFF
243	UDEF1 LATCH
244	UDEF2 LATCH
245	UDEF3 LATCH
246	UDEF4 LATCH
247	UDEF5 LATCH
248	UDEF6 LATCH
249	UDEF7 LATCH
250	UDEF8 LATCH
251	UDEF9 LATCH
252	UDEF10 LATCH
253	UDEF11 LATCH
254	UDEF12 LATCH
255	UDEF13 LATCH
256	UDEF14 LATCH
257	UDEF15 LATCH
258	UDEF16 LATCH
259	UDEF1 UNLATCH
260	UDEF2 UNLATCH
261	UDEF3 UNLATCH
262	UDEF4 UNLATCH
263	UDEF5 UNLATCH
264	UDEF6 UNLATCH
265	UDEF7 UNLATCH
266	UDEF8 UNLATCH
267	UDEF9 UNLATCH
268	UDEF10 UNLATCH
269	UDEF11 UNLATCH
270	UDEF12 UNLATCH
271	UDEF13 UNLATCH
272	UDEF14 UNLATCH

273	UDEF15 UNLATCH
274	UDEF16 UNLATCH
275	REC LAMP

(Effect Parameter)

REVERB HALL, REVERB ROOM, REVERB STAGE, REVERB PLATE

1 (Input), 2 (Output hall), (Room), (Stage)
(Plate reverb simulation), (Gate)

(Parameter)	(Range)	
REV TIME	0.3-99.0 s	(Reverb)
INI.DLY	0.0-500.0 ms	(Reverb) (Delay)
HI.RATIO	0.1-1.0	(Reverb)
LO.RATIO	0.1-2.4	(Reverb)
DIFF.	0.0-1.0	(Reverb) ()
DENSITY	0-100%	(Reverb)
E/R DLY	0.0-100.0 ms	(Early reflection) (Reverb) (Delay)
E/R BAL.	0-100%	(Early reflection) (Reverb) (0%= , 100%=)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)
GATE LVL	OFF, -60 ~ 0 dB	(Gate)†
ATTACK	0-120ms	(Gate)
HOLD	1	(Gate)
DECAY	2	(Gate)

1. 0,02 ms-2.13 s(fs=44.1 kHz), 0,02 ms-1.96 s(fs=48 kHz), 0,01 ms-1.07 s(fs=88.2 kHz), 0,01 ms-980(fs=96 kHz)
2. 6.0 ms-46.0 s(fs=44.1 kHz), 5.0 ms-42.3 s(fs=48 kHz), 3 ms-23.0 s(fs=88.2 kHz), 3 ms-21.1 s(fs=96 kHz)

EARLY REF.

1 (Input), 2 (Output early reflection)

(Parameter)	(Range)	
TYPE	S-Hall, L-Hall, (Random), (Revers), (Plate), (Spring)	(Early reflection simulation)
ROOMSIZE	0.1-20.0	(Reflection)
LIVENESS	0-10	(Early reflection decay) (0 = (dead), 10 = (live))
INI.DLY	0.0-500.0 ms	(Reverb)
DIFF.	0.0-1.0	(Reflection) ()
DENSITY	0-100%	(Reflection)
ER NUM.	1-19	(Early reflection)
FB GAIN	-100 ~ +100%	(Feedback Gain)
HI.RATIO	0.1-1.0	(Feedback)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz - 16.0 kHz, THRU	(Low-pass filter)

GATE REVERB, REVERSE GATE

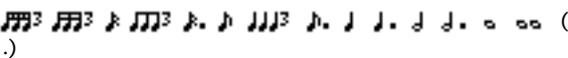
1 (Input), 2 (Gate) (Early reflection)
 (Reverse gate) (Early reflection)

(Parameter)	(Range)	
TYPE	A, B	(Early reflection simulation)
ROOMSIZE	0.1-20.0	(Reflection)
LIVENESS	0-10	(Early reflection decay) (0 = (dead), 10 = (live))
INI.DLY	0.0-500.0 ms	(Reverb) (Delay)
DIFF.	0-10	(Reflection) ()
DENSITY	0-100%	(Reflection)
HI.RATIO	0.1-1.0	(Feedback ratio)
ER NUM.	1-19	(Early reflection)
FB GAIN	-100 ~ +100%	(Feedback Gain)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)

MONO DELAY

1 (Input), 2 (Output basic repeat delay)

(Parameter)	(Range)	
DELAY	0.0-2730.0 ms	(Delay)
FB.GAIN	-99 ~ +99%	(Feedback Gain)((normal-phase) (reverse-phase))
HI.RATIO	0.1-1.0	(Feedback)
HPF	THRU, 21.2 Hz-8.00 kHz	(High pass)
LPF	50.0 Hz-16.0 kHz, THRU	(Low pass)
SYNC	OFF/ON	(Tempo parameter) /
NOTE	1	TEMPO DELAY

1. —  (.)

STEREO DELAY

2 (Input), 2 (Output basic stereo delay)

(Parameter)	(Range)	
DELAY L	0.0-1350.0 ms	(Delay)
DELAY R	0.0-1350.0 ms	(Delay)
FB.G L	-99 ~ +99%	(Feedback)((normal-phase) , (reverse-phase))
FB.G R	-99 ~ +99%	(Feedback)((normal-phase) , (reverse-phase))
HI.RATIO	0.1-1.0	(Feedback)
HPF	THRU, 21.2 Hz-8.00 kHz	(High pass)
LPF	50.0 Hz-16.0 kHz, THRU	(Low pass)
SYNC	OFF/ON	(Tempo parameter) /
NOTE L	1	TEMPO DELAY
NOTE R	1	TEMPO DELAY

1. — ()

MOD.DELAY

1 (Input), 2 (Output basic repeat delay)

(Parameter)	(Range)	
DELAY	0.0-2725.0 ms	(Delay)
FB.GAIN	-99 ~ +99%	(Feedback Gain)((normal-phase) , (reverse-phase))
HI.RATIO	0.1-1.0	(Feedback)
FREQ.	0.05-40.00 Hz	(Modulation)
DEPTH	0-100%	(Modulation)
WAVE	Sine/Tri	(Modulation)
HPF	THRU, 21.2 Hz-8.00 kHz	(High pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low pass filter)
SYNC	OFF/ON	(Tempo parameter) /
DLY NOTE	1	TEMPO DELAY
MOD NOTE	2	TEMPO FREQ

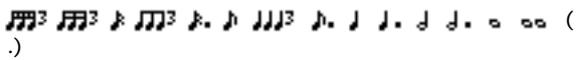
1. — ()

2.

DELAY LCR

1 (Input), 2 3 (Delay)(, ,)

(Parameter)	(Range)	
DELAY L	0.0-2730.0 ms	(Delay)
DELAY C	0.0-2730.0 ms	(Delay)
DELAY R	0.0-2730.0 ms	(Delay)
FB.DLY	0.0-2730.0 ms	(Feedback delay)
LEVEL L	-100 ~ +100%	(Delay)
LEVEL C	-100 ~ +100%	(Delay)
LEVEL R	-100 ~ +100%	(Delay)
FB.GAIN	-99 ~ +99%	(Feedback Gain)((normal-phase) , (reverse-phase))
HI.RATIO	0.1-1.0	(Feedback)
HPF	THRU, 21.2 Hz-8.00 kHz	(High pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low pass filter)
SYNC	OFF/ON	(Tempo parameter) /
NOTE L	1	TEMPO DELAY L
NOTE C	1	TEMPO DELAY C
NOTE R	1	TEMPO DELAY R
NOTE FB	1	TEMPO FB.DLY

1. —  (.)

ECHO

2 (Input), 2 (Output stereo delay),
(Crossed feedback loop)

(Parameter)	(Range)	
DELAY L	0.0-1350.0 ms	(Delay)
DELAY R	0.0-1350.0 ms	(Delay)
FB.D L	0.0-1350.0 ms	(Delay)
FB.D R	0.0-1350.0 ms	(Delay)
FB.G L	-99 ~ +99%	(Feedback Gain)(normal-phase), (reverse-phase)
FB.G R	-99 ~ +99%	(Feedback Gain)(normal-phase), (reverse-phase)
L->R FB.G	-99 ~ +99%	(Feedback Gain)(normal-phase), (reverse-phase)
R->L FB.G	-99 ~ +99%	(Feedback Gain)(normal-phase), (reverse-phase)
HI.RATIO	0.1-1.0	(Feedback)
HPF	THRU, 21.2 Hz-8.00 kHz	(High pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low pass filter)
SYNC	OFF/ON	(Tempo parameter) /
NOTE L	1	TEMPO DELAY L
NOTE R	1	TEMPO DELAY R
NOTE FBL	1	TEMPO FB.D L
NOTE FBR	1	TEMPO FB.D R

1. — ()

CHORUS

2 (Input), 2 (Output chorus effect)

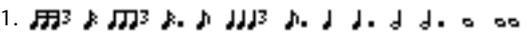
(Parameter)	(Range)	
FREQ.	0.05-40.00 Hz	(Modulation)
AM DEPTH	0-100%	(Amplitude modulation)
PM DEPTH	0-100%	(Pitch modulation)
MOD.DLY	0.0-500.0 ms	(Modulation delay)
WAVE	Sine, Tri	(Modulation)
LSH F	21.2 Hz-8.00 kHz	(Low shelving filter)
LSH G	-12 ~ +12 dB	(Low shelving filter)
EQ F	100 Hz-8.00 kHz	(EQ)()
EQ G	-12 ~ +12 dB	(EQ)()
EQ Q	10.0-0.10	(EQ)()
HSH F	50.0 Hz-16.0 kHz	(High shelving filter)
HSH G	-12 ~ +12 dB	(High shelving filter)
SYNC	OFF/ON	(Tempo parameter) /
NOTE	1	TEMPO FREQ.

1. ()

FLANGE

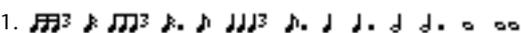
2 (Input), 2 (Output flange effect)

(Parameter)	(Range)	
FREQ.	0.05-40.00 Hz	(Modulation)
DEPTH	0-100%	(Modulation)
MOD.DLY	0.0-500.0 ms	(Modulation delay)
FB.GAIN	-99 ~ +99%	(Feedback Gain)((normal-phase) , (reverse-phase))
WAVE	Sine, Tri	(Modulation)
LSH F	21.2 Hz-8.00 kHz	(Low shelving filter)
LSH G	-12 ~ +12 dB	(Low shelving filter)
EQ F	100 Hz-8.00 kHz	(EQ)()
EQ G	-12 ~ +12 dB	(EQ)()
EQ Q	10.0-0.10	(EQ)()
HSH F	50.0 Hz-16.0 kHz	(High shelving filter)
HSH G	-12 ~ +12 dB	(High shelving filter)
SYNC	OFF/ON	(Tempo parameter) /
NOTE	1	TEMPO FREQ.

1. **SYMPHONIC**

2 (Input), 2 (Output symphonic effect)

(Parameter)	(Range)	
FREQ.	0.05-40.00 Hz	(Modulation)
DEPTH	0-100%	(Modulation)
MOD.DLY	0.0-500.0 ms	(Modulation delay)
WAVE	Sine, Tri	(Modulation)
LSH F	21.2 Hz-8.00 kHz	(Low shelving filter)
LSH G	-12 ~ +12 dB	(Low shelving filter)
EQ F	100 Hz-8.00 kHz	(EQ)()
EQ G	-12 ~ +12 dB	(EQ)()
EQ Q	10.0-0.10	(EQ)()
HSH F	50.0 Hz-16.0 kHz	(High shelving filter)
HSH G	-12 ~ +12 dB	(High shelving filter)
NOTE	1	TEMPO FREQ.
SYNC	OFF/ON	(Tempo parameter) /

1. 

PHASER

2 (Input), 2 (Output) 16 (Phaser)

(Parameter)	(Range)	
FREQ.	0.05-40.00 Hz	(Modulation)
DEPTH	0-100%	(Modulation)
FB.GAIN	-99 ~ +99%	(Feedback Gain)((normal-phase) (reverse-phase))
OFFSET	0-100	(Phase)
PHASE	0.00-354.38	(Modulation phase)
STAGE	2, 4, 6, 8, 10, 12, 14, 16	
LSH F	21.2 Hz-8.00 kHz	(Low-shelving filter)
LSH G	-12 ~ +12 dB	(Low-shelving filter)
HSH F	50.0 Hz-16.0 kHz	(High-shelving)
HSH G	-12 ~ +12 dB	(High-shelving)
SYNC	OFF/ON	(Tempo parameter) /
NOTE	1	TEMPO FREQ.

1.

AUTOPAN

2 (Input), 2 (Output autopanner)

(Parameter)	(Range)	
FREQ.	0.05-40.00 Hz	(Modulation)
DEPTH	0-100%	(Modulation)
DIR.	1	(Panning)
WAVE	Sine, Tri, Square	(Modulation)
LSH F	21.2 Hz-8.00 kHz	(Low-shelving filter)
LSH G	-12 ~ +12 dB	(Low-shelving filter)
EQ F	100 Hz-8.00 kHz	(EQ)()
EQ G	-12 ~ +12 dB	(EQ)()
EQ Q	10.0-0.10	(EQ)()
HSH F	50.0 Hz-16.0 kHz	(High-shelving filter)
HSH G	-12 ~ +12 dB	(High-shelving filter)
SYNC	OFF/ON	(Tempo parameter) /
NOTE	2	TEMPO FREQ.

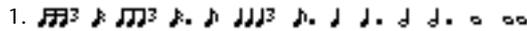
1. L R, L R, L R, Turn L(L), Turn R(R)

2.

TREMOLO

2 (Input), 2 (Output tremolo effect)

(Parameter)	(Range)	
FREQ.	0.05-40.00 Hz	(Modulation)
DEPTH	0-100%	(Modulation)
WAVE	Sine, Tri, Square	(Modulation)
LSH F	21.2 Hz-8.00 kHz	(Low-shelving filter)
LSH G	-12 ~ +12 dB	(Low-shelving filter)
EQ F	100 Hz-8.00 kHz	(EQ)()
EQ G	-12 ~ +12 dB	(EQ)()
EQ Q	10.0-0.10	(EQ)()
HSH F	50.0 Hz-16.0 kHz	(High-shelving filter)
HSH G	-12 ~ +12 dB	(High-shelving filter)
SYNC	OFF/ON	(Tempo parameter) /
NOTE	1	TEMPO FREQ.

1. 

HQ.PITCH

1 (Input), 2 (Output high-quality shifter)

(Parameter)	(Range)	
PITCH	-12 ~ +12	(Pitch)
FINE	-50 ~ +50	(Pitch)
DELAY	0.0-1000.0 ms	(Delay)
FB.GAIN	-99 ~ +99%	(Feedback Gain)((normal-phase) , (reverse-phase))
MODE	1-10	(Pitch)
SYNC	OFF/ON	(Tempo parameter) /
NOTE	1	TEMPO DELAY

1. 

DUAL PITCH

2 (Input), 2 (Output pitch shifter)

(Parameter)	(Range)	
PITCH 1	-24 ~ +24	1 (Pitch)
FINE 1	-50 ~ +50	1 (Pitch)
LEVEL 1	-100 ~ +100%	1 (normal-phase), (reverse-phase)
PAN 1	L63 - R63	1
DELAY 1	0.0-1000.0 ms	1 (Delay)
FB.G 1	-99 ~ +99%	1 (Feedback Gain)(normal-phase), (reverse-phase)
PITCH 2	-24 ~ +24	2 (Pitch)
FINE 2	-50 ~ +50	2 (Pitch)
LEVEL 2	-100 ~ +100%	2 (normal-phase), (reverse-phase)
PAN 2	L63 - R63	2
DELAY 2	0.0-1000.0 ms	2 (Delay)
FB.G 2	-99 ~ +99%	2 (Feedback Gain)(normal-phase), (reverse-phase)
MODE	1-10	(Pitch)
SYNC	OFF/ON	(Tempo parameter) /
NOTE 1	1	TEMPO 1 (Delay)
NOTE 2	1	TEMPO 2 (Delay)

1. —  ()

ROTARY

1 (Input), 2 (Output rotary speaker simulator)

(Parameter)	(Range)	
ROTATE	STOP, START	(Rotation) ,
SPEED	SLOW, FAST	(Rotation) (SLOW FAST)
SLOW	0.05-10.00 Hz	SLOW
FAST	0.05-10.00 Hz	FAST
DRIVE	0-100	(Overdrive)
ACCEL	0-10	가
LOW	0-100	(Filter)
HIGH	0-100	(Filter)

RING MOD.

2 (Input), 2 (Output ring modulator)

(Parameter)	(Range)	
SOURCE	OSC, SELF	(Modulation) : (Input)
OSC FREQ	0,0-5000.0 Hz	Oscillator
FM FREQ	0.05-40.00 Hz	Oscillator (Modulation)
FM DEPTH	0-100%	Oscillator (Modulation)
SYNC	OFF/ON	(Tempo parameter) /
NOTE FM	1	TEMPO FM FREQ

1.

MOD.FILTER

2 (Input), 2 (Output modulation filter)

(Parameter)	(Range)	
FREQ.	0.05-40.00 Hz	(Modulation)
DEPTH	0-100%	(Modulation)
PHASE	0.00-354.38 °	(Modulation) (Phase)
TYPE	LPF, HPF, BPF	(Filter) : , ,
OFFSET	0-100	(Filter)
RESO.	0-20	(Filter)
LEVLE	0-100	(Output)
SYNC	OFF/ON	(Tempo parameter) /
NOTE	1	TEMPO FREQ()

1.

DISTORTION

1 (Input), 2 (Output distortion effect)

(Parameter)	(Range)	
DST TYPE	DST1, DST2, OVD1, OVD2, CRUNCH	(Distortion) (DST= , OVD=)
DRIVE	0-100	(Distortion)
MASTER	0-100	
TONE	-10 ~ +10	(Tone)
N. GATE	0-20	

AMP SIMULATE

1 (Input), 2 (Output guitar amp simulator)

(Parameter)	(Range)	
AMP TYPE	1	(Guitar amp simulation)
DST TYPE	DST1, DST2, OVD1, OVD2, CRUNCH	(Distortion) (DST= , OVD=)
DRIVE	0-100	(Distortion)
MASTER	0-100	
BASS	0-100	control
MIDDLE	0-100	control
TREBLE	0-100	control
CAB DEP	0-100%	(Speaker cabinet simulation)
EQ F	99-8.0 kHz	(Parametric EQ)
EQ G	-12 ~ +12 dB	(Parametric EQ)
EQ Q	10.0-0.10	(Parametric EQ)
N. GATE	0-20	

1. STK-M1, STK-M2, THRASH, MIDBST, CMB-PG, CMB-VR, CMB-DX, CMB-TW, MINI, FLAT

DYNA.FILTER

2 (Input), 2 (Output dynamically controlled filter)

(Parameter)	(Range)	
SOURCE	INPUT, MIDI	Control source: MIDI
SENSE	0-100	
DIR.	UP, DOWN	
DECAY	1	(Decay)
TYPE	LPF, HPF, BPF	(Filter)
OFFSET	0-100	(Filter)
RESO.	0-20	(Filter)
LEVEL	0-100	(Output)

1. 6.0 ms-46.0 s(fs=44.1 kHz), 5.0 ms-42.3 s(fs=48 kHz), 3 ms-23.0 s(fs=88.2 kHz), 3 ms-21.1 s(fs=96 kHz)

DYNA.FLANGE

2 (Input), 2

(Output dynamically controlled)

(Parameter)	(Range)	
SOURCE	INPUT, MIDI	Control source: MIDI
SENSE	0-100	
DIR.	UP, DOWN	
DECAY	1	(Decay)
OFFSET	0-100	(Delay)
FB GAIN	-99 ~ +99%	(Feedback Gain)((normal-phase) , (reverse-phase))
LSH F	21.2 Hz-8.00 kHz	(Low shelving filter)
LSH G	-12 ~ +12 dB	(Low shelving filter)
EQ F	100 Hz-8.00 kHz	()
EQ G	-12 ~ +12 dB	()
EQ Q	10.0-0.10	()
HSH F	50.0 Hz-16.0 kHz	(High shelving filter)
HSH G	-12 ~ +12 dB	(High shelving filter)

1. 6.0 ms-46.0 s(fs=44.1 kHz), 5.0 ms-42.3 s(fs=48 kHz), 3 ms-23.0 s(fs=88.2 kHz), 3 ms-21.1 s (fs=96 kHz)

flanger)

DYNA.PHASER

2 (Input), 2

(Output dynamically controlled)

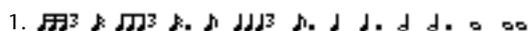
(Parameter)	(Range)	
SOURCE	INPUT, MIDI	Control source: MIDI
SENSE	0-100	
DIR.	UP, DOWN	
DECAY	1	(Decay)
OFFSET	0-100	(Phase)
FB GAIN	-99 ~ +99%	(Feedback Gain)((normal-phase) , (reverse-phase))
STAGE	2, 4, 8, 10, 12, 14, 16	(Phase)
LSH F	21.2 Hz-8.00 kHz	(Low shelving filter)
LSH G	-12 ~ +12 dB	(Low shelving filter)
HSH F	50.0 Hz-16.0 kHz	(High shelving filter)
HSH G	-12 ~ +12 dB	(High shelving filter)

1. 6.0 ms-46.0 s(fs=44.1 kHz), 5.0 ms-42.3 s(fs=48 kHz), 3 ms-23.0 s(fs=88.2 kHz), 3 ms-21.1 s (fs=96 kHz)

REV+CHORUS

1 (Input), 2 (Output reverb) (Chorus) (Effect)

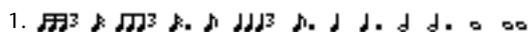
(Parameter)	(Range)	
INI.DLY	0.0-500.0 ms	(Reverb) (Delay)
REV TIME	0.3-99.0 s	(Reverb)
HI.RATIO	0.1-1.0	(Reverb)
DIFF.	0.1-1.0	
DENSITY	0-100%	(Reverb)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)
REV/CHO	0-100%	(Reverb) (0%= , 100%=)
FREQ.	0.05-40.00 Hz	(Modulation)
AM DEPTH	0-100%	(Amplitude modulation)
PM DEPTH	0-100%	(Pitch modulation)
MOD.DLY	0.0-500.0 ms	(Modulation delay)
WAVE	Sine, Tri	(Modulation)
SYNC	OFF/ON	(Tempo parameter) /
NOTE	1	TEMPO FREQ.

1. 

REV->CHORUS

1 (Input), 2 (Output reverb) (Chorus) (Effect)

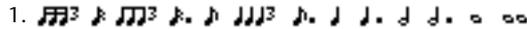
(Parameter)	(Range)	
INI.DLY	0.0-500.0 ms	(Reverb)
REV TIME	0.3-99.0 s	(Reverb)
HI.RATIO	0.1-1.0	(Reverb)
DIFF.	0.1-1.0	
DENSITY	0-100%	(Reverb)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)
REV BAL.	0-100%	(Reverb) (Reverb) (0%= , 100%=)
FREQ.	0.05-40.00 Hz	(Modulation)
AM DEPTH	0-100%	(Amplitude modulation)
PM DEPTH	0-100%	(Pitch modulation)
MOD.DLY	0.0-500.0 ms	(Modulation delay)
WAVE	Sine, Tri	(Modulation)
SYNC	OFF/ON	(Tempo parameter) /
NOTE	1	TEMPO FREQ.

1. 

REV+FLANGE

1 (Input), 2 (Output reverb) (Flanger) (Effect)

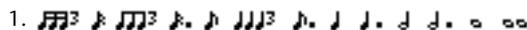
(Parameter)	(Range)	
INI.DLY	0.0-500.0 ms	(Reverb) (Delay)
REV TIME	0.3-99.0 s	(Reverb)
HI.RATIO	0.1-1.0	(Reverb)
DIFF.	0.1-1.0	
DENSITY	0-100%	(Reverb)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)
REV/FLG	0-100%	(Reverb) (Flange) (0%=), 100%=)
FREQ.	0.05-40.00 Hz	(Modulation)
DEPTH	0-100%	(Modulation)
MOD.DLY	0.0-500.0 ms	(Modulation Delay)
FB.GAIN	-99 ~ +99%	(Feedback Gain)((normal-phase) , (reverse-phase))
WAVE	Sine, Tri	(Modulation)
SYNC	OFF/ON	(Tempo parameter) /
NOTE	1	TEMPO FREQ.

1. 

REV->FLANGE

1 (Input), 2 (Output reverb) (Flanger) (Effect)

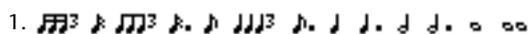
(Parameter)	(Range)	
INI.DLY	0.0-500.0 ms	(Reverb) (Delay)
REV TIME	0.3-99.0 s	(Reverb)
HI.RATIO	0.1-1.0	(Reverb)
DIFF.	0.1-1.0	
DENSITY	0-100%	(Reverb)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)
REV BAL.	0-100%	(Reverb) (Flange Reverb) (0%= , 100%=)
FREQ.	0.05-40.00 Hz	(Modulation)
DEPTH	0-100%	(Modulation)
MOD.DLY	0.0-500.0 ms	(Modulation delay)
FB.GAIN	-99 ~ +99%	(Feedback Gain)((normal-phase) , (reverse-phase))
WAVE	Sine, Tri	(Modulation)
SYNC	OFF/ON	(Tempo parameter) /
NOTE	1	TEMPO FREQ.

1. 

REV+SYMPHO.

1 (Input), 2 (Output reverb) (Symphonic)
(Effect)

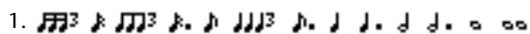
(Parameter)	(Range)	
INI.DLY	0.0-500.0 ms	(Reverb)
REV TIME	0.3-99.0 s	(Reverb)
HI.RATIO	0.1-1.0	(Reverb)
DIFF.	0.1-1.0	
DENSITY	0-100%	(Reverb)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)
REV/SYM	0-100%	(Reverb) (0%= , 100%=)
FREQ.	0.05-40.00 Hz	(Modulation)
DEPTH	0-100%	(Modulation)
MOD.DLY	0.0-500.0 ms	(Modulation delay)
WAVE	Sine, Tri	(Modulation)
SYNC	OFF/ON	(Tempo parameter) /
NOTE	1	TEMPO FREQ.

1. 

REV->SYMPHO.

1 (Input), 2 (Output reverb) (Symphonic)
(Effect)

(Parameter)	(Range)	
INI.DLY	0.0-500.0 ms	(Reverb)
REV TIME	0.3-99.0 s	(Reverb)
HI.RATIO	0.1-1.0	(Reverb)
DIFF.	0.1-1.0	
DENSITY	0-100%	(Reverb)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)
REV BAL.	0-100%	(Reverb) (Reverb) (0%= , 100%=)
FREQ.	0.05-40.00 Hz	(Modulation)
DEPTH	0-100%	(Modulation)
MOD.DLY	0.0-500.0 ms	(Modulation delay)
WAVE	Sine, Tri	(Modulation)
SYNC	OFF/ON	(Tempo parameter) /
NOTE	1	TEMPO FREQ.

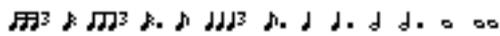
1. 

REV->PAN

1 (Input), 2 (Output reverb) (Effect)

(Parameter)	(Range)	
INI.DLY	0.0-500.0 ms	(Reverb)
REV TIME	0.3-99.0 s	(Reverb)
HI.RATIO	0.1-1.0	(Reverb)
DIFF.	0.1-1.0	
DENSITY	0-100%	(Reverb)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)
REV BAL.	0-100%	(Reverb) (Pan Reverb) (0%= , 100%=)
FREQ.	0.05-40.00 Hz	(Modulation)
DEPTH	0-100%	(Modulation)
DIR.	1	(Panning)
WAVE	Sine, Tri, Square	(Modulation)
SYNC	OFF/ON	(Tempo parameter) /
NOTE	2	TEMPO FREQ.

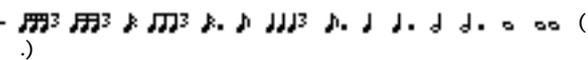
1. L R, L R, L R, Turn L(L), Turn R(R)

2. 

DELAY+ER.

1 (Input), 2 (Output delay) (Early reflection)
(Effect)

(Parameter)	(Range)	
DELAY L	0.0-1000.0 ms	(Delay)
DELAY R	0.0-1000.0 ms	(Delay)
FB.DLY	0.0-1000.0 ms	(Delay)
FB.GAIN	-99 ~ +99%	(Feedback Gain)((normal-phase) , (reverse-phase))
HI.RATIO	0.1-1.0	(Feedback)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)
DLY/ER	0-100%	(Delay) (Early reflection) (0%= , 100%=)
TYPE	, , , , ,	(Early reflection simulation)
ROOMSIZE	0.1-20.0	
LIVENESS	0-10	(Early reflection decay) (0= , 10=)
INI.DLY	0.0-500.0 ms	(Reverb) (Delay)
DIFF.	0.1-1.0	
DENSITY	0-100%	(Reverb)
ER NUM.	1-19	(Early reflection)
SYNC	OFF/ON	(Tempo parameter) /
NOTE L	1	TEMPO DELAY L
NOTE R	1	TEMPO DELAY R
NOTE FB	1	TEMPO FB.DLY

1. —  (.)

DELAY+REV

1 (Input), 2 (Output delay) (Reverb) (Effect)

(Parameter)	(Range)	
DELAY L	0.0-1000.0 ms	(Delay)
DELAY R	0.0-1000.0 ms	(Delay)
FB.DLY	0.0-1000.0 ms	(Feedback delay)
FB.GAIN	-99 ~ +99%	(Feedback Gain)((normal-phase) , (reverse-phase))
DELAY HI	0.1-1.0	(Delay)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)
DLY/REV	0-100%	(Delay) (Reverb) (0%= 100%=)
INI.DLY	0.0-500.0 ms	(Reverb) (Delay)
REV TIME	0.3-99.0 s	(Reverb)
REV HI	0.1-1.0	(Reverb)
DIFF.	0.1-1.0	
DENSITY	0-100%	(Reverb)
SYNC	OFF/ON	(Tempo parameter) /
NOTE L	1	TEMPO DELAY L
NOTE R	1	TEMPO DELAY R
NOTE FB	1	TEMPO FB.DLY

1. — ()

DELAY->REV

1 (Input), 2 (Output delay) (Reverb) (Effect)

(Parameter)	(Range)	
DELAY L	0.0-1000.0 ms	(Delay)
DELAY R	0.0-1000.0 ms	(Delay)
FB.DLY	0.0-1000.0 ms	(Delay)
FB.GAIN	-99 ~ +99%	(Feedback Gain)((normal-phase) , (reverse-phase))
DELAY HI	0.1-1.0	(Delay)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)
DLY BAL	0-100%	(Delay) (Reverb) (0%= , 100%=)
INI.DLY	0.0-500.0 ms	(Reverb) (Delay)
REV TIME	0.3-99.0 s	(Reverb)
REV HI	0.1-1.0	(Reverb)
DIFF.	0.1-1.0	
DENSITY	0-100%	(Reverb)
SYNC	OFF/ON	(Tempo parameter) /
NOTE L	1	TEMPO DELAY L
NOTE R	*1	TEMPO DELAY R
NOTE FB	*1	TEMPO FB.DLY

1. —  (.)

DIST->DELAY

1 (Input), 2 (Output distortion) (Delay)
(Effect)

(Parameter)	(Range)	
DST TYPE	DST1, DST2, OVD1, OVD2, CRUNCH	(Distortion) (DST= , OVD=)
DRIVE	0-100	(Distortion)
MASTER	0-100	
TONE	-10 ~ +10	Tone control
N. GATE	0-20	
DELAY	0.0-2725.0 ms	(Delay)
FB.GAIN	-99 ~ +99%	(Feedback Gain)((normal-phase) , (reverse-phase))
HI.RATIO	0.1-1.0	(Feedback)
FREQ.	0.05-40.00 Hz	(Modulation)
DEPTH	0-100%	(Modulation)
DLY BAL	0-100%	(Distortion) (Delay) (0%= , 100%=)
SYNC	OFF/ON	(Tempo parameter) /
DLY NOTE	1	TEMPO DELAY
MOD NOTE	2	TEMPO FREQ.

1. — ()
2. ()

MULTI FILTER

2 (Input), 2 (Output) 3 (Multi-filter)(24 dB/)

(Parameter)	(Range)	
TYPE 1	HPF, LPF, BPF	(Filter) 1 : , ,
TYPE 2	HPF, LPF, BPF	(Filter) 2 : , ,
TYPE 3	HPF, LPF, BPF	(Filter) 3 : , ,
FREQ. 1	28 Hz-16.0 kHz	(Filter) 1
FREQ. 2	28 Hz-16.0 kHz	(Filter) 2
FREQ. 3	28 Hz-16.0 kHz	(Filter) 3
LEVEL 1	0-100	(Filter) 1
LEVEL 2	0-100	(Filter) 2
LEVEL 3	0-100	(Filter) 3
RESO. 1	0-20	(Filter) 1
RESO. 2	0-20	(Filter) 2
RESO. 3	0-20	(Filter) 3

FREEZE

1 (Input), 1 (Output basic sampler)

(Parameter)	(Range)	
REC MODE	MANUAL, INPUT	MANUAL, REC, PLAY INPUT, REC Record-Ready 가 ,
REC DLY	-1000 ~ +1000 ms	(Recording delay). (Trigger)
TRG LVL	-60 ~ 0 dB	(Input trigger) (,)
TRG MASK	0-1000.0 ms	MASK (Trigger) TRG
PLAY MODE	MOMENT, CONT., INPUT	MOMENT, PLAY CONT, PLAY INPUT, LOOP NUM
START	1	
END	1	
LOOP	1	
LOOP NUM	0-100	
START [SAMPLE]	0-262000	
END [SAMPLE]	0-262000	
LOOP [SAMPLE]	0-262000	
PITCH	-12 ~ +12	(Pitch)
FINE	-50 ~ -50	(Pitch)
MIDI TRG	OFF, C1-C6, All	MIDI / PLAY (Trigger)

1. 0.0-5941.0 ms(fs=44.1 kHz), 0.0 ms-5458.3 ms(fs=48 kHz), 0.0-2970.5 ms(fs=88.2 kHz), 0.0 ms-2729.1 ms(fs=96 kHz)

ST REVERB

2 (Input), 2 (Output stereo reverb)

(Parameter)	(Range)	
REV TIME	0.3-99.0 s	(Reverb)
REV TYPE	(Hall), (Room), (Stage), (Plate)	(Reverb)
INI.DLY	0.0-100.0 ms	(Reverb) (Delay)
HI.RATIO	0.1-1.0	(Reverb)
LO.RATIO	0.1-2.4	(Reverb)
DIFF.	0.0-1.0	(Reverb) ()
DENSITY	0-100%	(Reverb)
HPF	THRU, 21.2Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)
E/R BAL.	0-100%	(Early reflection) (Reverb) (0%= , 100%=)

REVERB 5.1

1 (Input), 6 (Output) 5.1 (Reverb), (Surround panning)

(Parameter)	(Range)	
REV TIME	0.3-99.0 s	(Reverb)
REV TYPE	(Hall), (Room), (Stage), (Plate)	(Reverb)
HI.RATIO	0.1-1.0	(Reverb)
DIFF.	0.0-1.0	(Reverb) ()
DENSITY	0-100%	(Reverb)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)
DIV.	0-100%	(Divergence) , .0% (, 7†). 50% , , , , .100% , , , (,).
ROOMSIZE	0.1-20.0	(Simulation) (Reverb)
POS L/R	L63-R63	/ (Listening)
POS F/R	F63-R63	/ (Listening)
POS CTRL	OFF, NOR, INV	1
ER L/R	L63-R63	/ (Early reflection)
ER F/R	F63-R63	/ (Early reflection)
ER LVL	0-100	(Early reflection)
ER CTRL	OFF, NOR, INV	1
REV L/R	L63-R63	/ (Reverb)
REV F/R	F63-R63	/ (Reverb)
REV LVL	0-100	(Reverb)
REV CTRL	OFF, NOR, INV	1

1. NOR , SELECTED CHANNEL PAN/SURROUND [EFFECT] indicator7† . INV , . OFF control .

OCTA REVERB

8 (Input), 8 (Output reverb)

(Parameter)	(Range)	
REV TIME	0.3-99.0 s	(Reverb)
REV TYPE	(Hall), (Room), (Stage), (Plate)	(Reverb)
INI.DLY	0.0-100.0 ms	(Reverb)
HI.RATIO	0.1-1.0	(Reverb)
LO.RATIO	0.1-2.4	(Reverb)
DIFF.	0.0-1.0	(Reverb) ()
DENSITY	0-100%	(Reverb)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)
E/R BAL.	0-100%	(Early reflection) (Reverb) (0%= , 100%=)

AUTO PAN 5.1

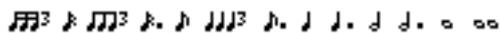
6 (Input), 6 (Output) 5.1 (Autopanner). RESET
 OFFSET (Pan)

(Parameter)	(Range)	
SOURCE	OFF, HOLD, INPUT, MIDI	OFF (Autopan), TRIGGER (Autopan), HOLD, INPUT, 가 (Autopan), MIDI (Autopan)
TRIG.LVL	-60 ~ 0 dB	(Input trigger) (, SOURCE() INPUT())
TIME	0.1 s-10.0 s	(Autopan)
SPEED	0.05 Hz-40.00 Hz	(Autopan)
DIR.	Turn L(L), Turn R(R)	(Autopan)
OFFSET	-180 ~ +180	(Pan)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)

CHORUS 5.1

6 (Input), 6 (Output) 5.1 (Chorus)

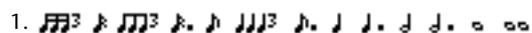
(Parameter)	(Range)	
FREQ.	0.05-40.00 Hz	(Modulation)
AM DEPTH	0-100%	(Amplitude modulation)
PM DEPTH	0-100%	(Pitch modulation)
MOD.DLY	0.0-400.0 ms	(Modulation delay)
WAVE	Sine, Tri	(Modulation)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)
SYNC	OFF/ON	(Tempo parameter) /
NOTE	1	TEMPO FREQ.

1. 

FLANGE 5.1

6 (Input), 6 5.1 (Flanger)

(Parameter)	(Range)	
FREQ.	0.05-40.00 Hz	(Modulation)
DEPTH	0-100%	(Modulation)
MOD.DLY	0.0-400.0 ms	(Modulation delay)
FB.GAIN	-99 ~ +99%	(Feedback Gain)((normal-phase) , (reverse-phase))
WAVE	Sine, Tri	(Modulation)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)
SYNC	OFF/ON	(Tempo parameter) /
NOTE	1	TEMPO FREQ.

1. **SYMPHO 5.1**

6 (Input), 6 5.1 (Symphonic effect)

(Parameter)	(Range)	
FREQ.	0.05-40.00 Hz	(Modulation)
DEPTH	0-100%	(Modulation)
MOD.DLY	0.0-500.0 ms	(Modulation delay)
WAVE	Sine, Tri	(Modulation)
HPF	THRU, 21.2 Hz-8.00 kHz	(High-pass filter)
LPF	50.0 Hz-16.0 kHz, THRU	(Low-pass filter)
SYNC	OFF/ON	(Tempo parameter) /
NOTE	1	TEMPO FREQ.

1. 

M. BAND DYNA.

2 (Input), 2 (Output) 3 (Dynamics processor),
(Solo) (Gain)

(Parameter)	(Range)	
LOW GAIN	-96.0 ~ +12.0 dB	
MID GAIN	-96.0 ~ +12.0 dB	
HI.GAIN	-96.0 ~ +12.0 dB	
PRESENCE	-10 ~ +10	. 0 , 3
EXP.THRE	-54.0 dB ~ -24.0 dB	(Expander threshold)
EXP.RAT	1:1 ~ :1	(Expander)
EXP.REL	1	(Expander release)
EXP.BYP	ON/OFF	(Expander)
CMP.THRE	-24.0 dB ~ 0.0 dB	(Compressor threshold)
CMP.RAT	1:1 - 20:1	(Compressor)
CMP.REL	1	(Compressor release)
CMP.ATK	0-120 ms	(Compressor attack)
CMP.KNEE	0-5	(Compressor knee)
CMP.BYP	ON/OFF	(Compressor)
LIM.THRE	-12.0 dB ~ 0.0 dB	(Limiter threshold)
LIM.REL	1	(Limiter release)
LIM.ATK	0-120 ms	(Limiter attack)
LIM.KNEE	0-5	(Limiter knee)
LIM.BYP	ON/OFF	(Limiter)
LOOKUP	0.0-100.0 ms	(Delay)
L-M XOVR	21.2 Hz-8.00 kHz	/ (Crossover)
M-H XOVR	21.2 Hz-8.00 kHz	/ (Crossover)
SLOPE	-6 dB ~ 12 dB	(Filter slope)
CEILING	-6.0 dB ~ 0.0 dB, OFF	(Output)

1. 6.0 ms-46.0 s(fs=44.1 kHz), 5.0 ms-42.3 s(fs=48 kHz), 3 ms-23.0 s(fs=88.2 kHz), 3 ms-21.1 s(fs=96 kHz)

COMP 5.1

6 (Input), 6 (Output) 5.1 (Compressor),
 (Solo) (L+R), (LS+RS),
 (C) LFE (Gain)

(Parameter)	(Range)	
LOW GAIN	-96.0 ~ +12.0 dB	
MID GAIN	-96.0 ~ +12.0 dB	
HI.GAIN	-96.0 ~ +12.0 dB	
PRESENCE	-10 ~ +10	. 0 , 3
THRE	-24.0 dB ~ 0.0 dB	(Compressor threshold)
RATIO	1:1 ~ :1	(Compressor)
ATTACK	0-120 ms	(Compressor attack)
RELEASE	1	(Expander release)
KNEE	0-5	(Compressor knee)
LOOKUP	0.0-100.0 ms	(Delay)
CEILING	-6.0 dB ~ 0.0 dB, OFF	(Output)
L-M XOVR	21.2 Hz-8.00 kHz	/ (Crossover)
M-H XOVR	21.2 Hz-8.00 kHz	/ (Crossover)
SLOPE	-6 dB ~ -12 dB	(Filter slope)
KEY LINK	2	(key-in)

1. 6.0 ms-46.0 s(fs=44.1 kHz), 5.0 ms-42.3 s(fs=48 kHz), 3 ms-23.0 s(fs=88.2 kHz), 3 ms-21.1 s(fs=96 kHz)

2. 5.1: (Input) (key-in) . 5.0: L, C, R, LS, RS (key-in)
 (LFE)). 3+2: L, C, R (key-in) , LS RS가 . 2+2: L
 R (key-in) , LS RS가 .

COMPAND 5.1

6 (Input), 6 (Output) 5.1 (Compander),
 (Solo) (L+R), (LS+RS),
 (C) LFE (Gain)

(Parameter)	(Range)	
LOW GAIN	-96.0 ~ +12.0 dB	
MID GAIN	-96.0 ~ +12.0 dB	
HI.GAIN	-96.0 ~ +12.0 dB	
PRESENCE	-10 ~ +10	. 0 , 3
THRE	-24.0 dB ~ 0.0 dB	(Compressor threshold)
RATIO	1:1 - 20:1	(Compressor)
ATTACK	0-120 ms	(Compressor attack)
WIDTH	1-90 dB	(Compander)
TYPE	,	(Compander)
LOOKUP	0.0-100.0 ms	(Delay)
CEILING	-6.0 dB ~ 0.0 dB, OFF	(Output)
L-M XOVR	21.2 Hz-8.00 kHz	/ (Crossover)
M-H XOVR	21.2 Hz-8.00 kHz	/ (Crossover)
SLOPE	-6 dB ~ -12 dB	(Filter slope)
KEY LINK	1	(key-in)

1. 5.1: (Input) (key-in) . 5.0: L, C, R, LS, RS (key-in)
 (LFE)). 3+2: L, C, R (key-in) , LS RS† . 2+2: L
 R (key-in) , LS RS† .

(Preset EQ Parameter)

		(Parameter)				
			LOW	L-MID	H-MID	HIGH
01	Bass Drum 1		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+3.5 dB	-3.5 dB	0.0 dB	+4.0 dB
		F	100 Hz	265 Hz	1.06 kHz	5.30 kHz
		Q	1.2	10	0.9	-
02	Bass Drum 2		PEAKING	PEAKING	PEAKING	LPF
		G	+8.0 dB	-7.0 dB	+6.0 dB	ON
		F	80 Hz	400 Hz	2.50 kHz	12.5 kHz
		Q	1.4	4.5	2.2	-
03	Snare Drum 1		PEAKING	PEAKING	PEAKING	H.SHELF
		G	-0.5 dB	0.0 dB	+3.0 dB	+4.5 dB
		F	132 Hz	1.00 kHz	3.15 kHz	5.00 kHz
		Q	1.2	4.5	0.11	-
04	Snare Drum 2		L.SHELF	PEAKING	PEAKING	PEAKING
		G	+1.5 dB	-8.5 dB	+2.5 dB	+4.0 dB
		F	180 Hz	335 Hz	2.36 kHz	4.00 kHz
		Q	-	10	0.7	0.1
05	Tom-tom 1		PEAKING	PEAKING	PEAKING	PEAKING
		G	+2.0 dB	-7.5 dB	+2.0 dB	+1.0 dB
		F	212 Hz	670 Hz	4.50 kHz	6.30 kHz
		Q	1.4	10	1.2	0.28
06	Cymbal		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	-2.0 dB	0.0 dB	0.0 dB	+3.0 dB
		F	106 Hz	425 Hz	1.06 kHz	13.2 kHz
		Q	-	8	0.9	-
07	High Hat		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	-4.0 dB	-2.5 dB	+1.0 dB	+0.5 dB
		F	95 Hz	425 Hz	2.80 kHz	7.50 kHz
		Q	-	0.5	1	-
08	Percussion		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	-4.5 dB	0.0 dB	+2.0 dB	0.0 dB
		F	100 Hz	400 Hz	2.80 kHz	17.0 kHz
		Q	-	4.5	0.56	-
09	E. Bass 1		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	-7.5 dB	+4.5 dB	+2.5 dB	0.0 dB
		F	35.5 Hz	112 Hz	2.00 kHz	4.00 kHz
		Q	-	5	4.5	-
10	E. Bass 2		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+3.0 dB	0.0 dB	+2.5 dB	+0.5 dB
		F	112 Hz	112 Hz	2.24 kHz	4.00 kHz
		Q	0.1	5	6.3	-

		(Parameter)				
			LOW	L-MID	H-MID	HIGH
11	Syn.Bass 1		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+3.5 dB	+8.5 dB	0.0 dB	0.0 dB
		F	85 Hz	950 Hz	4.00 kHz	12.5 kHz
		Q	0.1	8	4.5	-
12	Syn.Bass 2		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+2.5 dB	0.0 dB	+1.5 dB	0.0 dB
		F	125 Hz	180 Hz	1.12 kHz	12.5 kHz
		Q	1.6	8	2.2	-
13	Piano 1		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	-6.0 dB	0.0 dB	+2.0 dB	+4.0 dB
		F	95 Hz	950 Hz	3.15 kHz	7.50 kHz
		Q	-	8	0.9	-
14	Piano 2		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+3.5 dB	-8.5 dB	+1.5 dB	+3.0 dB
		F	224 Hz	600 Hz	3.15 kHz	5.30 kHz
		Q	5.6	10	0.7	-
15	E. G. Clean		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+2.0 dB	-5.5 dB	+0.5 dB	+2.5 dB
		F	265 Hz	400 Hz	1.32 kHz	4.50 kHz
		Q	0.18	10	6.3	-
16	E. G. Crunch 1		PEAKING	PEAKING	PEAKING	PEAKING
		G	+4.5 dB	0.0 dB	+4.0 dB	+2.0 dB
		F	140 Hz	1.00 kHz	1.90 kHz	5.60 kHz
		Q	8	4.5	0.63	9
17	E. G. Crunch 2		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+2.5 dB	+1.5 dB	+2.5 dB	0.0 dB
		F	125 Hz	450 Hz	3.35 kHz	19.0 kHz
		Q	8	0.4	0.16	-
18	E. G. Dist. 1		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	+5.0 dB	0.0 dB	+3.5 dB	0.0 dB
		F	355 Hz	950 Hz	3.35 kHz	12.5 kHz
		Q	-	9	10	-
19	E. G. Dist. 2		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	+6.0 dB	-8.5 dB	+4.5 dB	+4.0 dB
		F	315 Hz	1.06 kHz	4.25 kHz	12.5 kHz
		Q	-	10	4	-
20	A. G. Stroke 1		PEAKING	PEAKING	PEAKING	H.SHELF
		G	-2.0 dB	0.0 dB	+1.0 dB	+4.0 dB
		F	106 Hz	1.00 kHz	1.90 kHz	5.30 kHz
		Q	0.9	4.5	3.5	-
21	A. G. Stroke 2		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	-3.5 dB	-2.0 dB	0.0 dB	+2.0 dB
		F	300 Hz	750 Hz	2.00 kHz	3.55 kHz
		Q	-	9	4.5	-

		(Parameter)				
			LOW	L-MID	H-MID	HIGH
22	A. G. Arpeg. 1		L.SHELF	PEAKING	PEAKING	PEAKING
		G	-0.5 dB	0.0 dB	0.0 dB	+2.0 dB
		F	224 Hz	1.00 kHz	4.00 kHz	6.70 kHz
		Q	-	4.5	4.5	0.12
23	A. G. Arpeg. 2		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	0.0 dB	-5.5 dB	0.0 dB	+4.0 dB
		F	180 Hz	355 Hz	4.00 kHz	4.25 kHz
		Q	-	7	4.5	-
24	Brass Sec.		PEAKING	PEAKING	PEAKING	PEAKING
		G	-2.0 dB	-1.0 dB	+1.5 dB	+3.0 dB
		F	90 Hz	850 Hz	2.12 kHz	4.50 kHz
		Q	2.8	2	0.7	7
25	Male Vocal 1		PEAKING	PEAKING	PEAKING	PEAKING
		G	-0.5 dB	0.0 dB	+2.0 dB	+3.5 dB
		F	190 Hz	1.00 kHz	2.00 kHz	6.70 kHz
		Q	0.11	4.5	0.56	0.11
26	Male Vocal 2		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+2.0 dB	-5.0 dB	-2.5 dB	+4.0 dB
		F	170 Hz	236 Hz	2.65 kHz	6.70 kHz
		Q	0.11	10	5.6	-
27	Female Vo. 1		PEAKING	PEAKING	PEAKING	PEAKING
		G	-1.0 dB	+1.0 dB	+1.5 dB	+2.0 dB
		F	118 Hz	400 Hz	2.65 kHz	6.00 kHz
		Q	0.18	0.45	0.56	0.14
28	Female Vo. 2		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	-7.0 dB	+1.5 dB	+1.5 dB	+2.5 dB
		F	112 Hz	335 Hz	2.00 kHz	6.70 kHz
		Q	-	0.16	0.2	-
29	Chorus & Harmo		PEAKING	PEAKING	PEAKING	PEAKING
		G	-2.0 dB	-1.0 dB	+1.5 dB	+3.0 dB
		F	90 Hz	850 Hz	2.12 kHz	4.50 kHz
		Q	2.8	2	0.7	7
30	Total EQ 1		PEAKING	PEAKING	PEAKING	H.SHELF
		G	-0.5 dB	0.0 dB	+3.0 dB	+6.5 dB
		F	95 Hz	950 Hz	2.12 kHz	16.0 kHz
		Q	7	2.2	5.6	-
31	Total EQ 2		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+4.0 dB	+1.5 dB	+2.0 dB	+6.0 dB
		F	95 Hz	750 Hz	1.80 kHz	18.0 kHz
		Q	7	2.8	5.6	-
32	Total EQ 3		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	+1.5 dB	+0.5 dB	+2.0 dB	+4.0 dB
		F	67 Hz	850 Hz	1.90 kHz	15.0 kHz
		Q	-	0.28	0.7	-

		(Parameter)				
			LOW	L-MID	H-MID	HIGH
33	Bass Drum 3		PEAKING	PEAKING	PEAKING	PEAKING
		G	+3.5 dB	-10.0 dB	+3.5 dB	0.0 dB
		F	118 Hz	315 Hz	4.25 kHz	20.0 kHz
		Q	2	10	0.4	0.4
34	Snare Drum 3		L.SHELF	PEAKING	PEAKING	PEAKING
		G	0.0 dB	+2.0 dB	+3.5 dB	0.0 dB
		F	224 Hz	560 Hz	4.25 kHz	4.00 kHz
		Q	-	4.5	2.8	0.1
35	Tom-tom 2		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	-9.0 dB	+1.5 dB	+2.0 dB	0.0 dB
		F	90 Hz	212 Hz	5.30 kHz	17.0 kHz
		Q	-	4.5	1.2	-
36	Piano 3		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+4.5 dB	-13.0 dB	+4.5 dB	+2.5 dB
		F	100 Hz	475 Hz	2.36 kHz	10.0 kHz
		Q	8	10	9	-
37	Piano Low		PEAKING	PEAKING	PEAKING	H.SHELF
		G	-5.5 dB	+1.5 dB	+6.0 dB	0.0 dB
		F	190 Hz	400 Hz	6.70 kHz	12.5 kHz
		Q	10	6.3	2.2	-
38	Piano High		PEAKING	PEAKING	PEAKING	PEAKING
		G	-5.5 dB	+1.5 dB	+5.0 dB	+3.0 dB
		F	190 Hz	400 Hz	6.70 kHz	5.60 kHz
		Q	10	6.3	2.2	0.1
39	Fine-EQ Cass		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	-1.5 dB	0.0 dB	+1.0 dB	+3.0 dB
		F	75 Hz	1.00 kHz	4.00 kHz	12.5 kHz
		Q	-	4.5	1.8	-
40	Narrator		PEAKING	PEAKING	PEAKING	H.SHELF
		G	-4.0 dB	-1.0 dB	+2.0 dB	0.0 dB
		F	106 Hz	710 Hz	2.50 kHz	10.0 kHz
		Q	4	7	0.63	-

(Preset Gate Parameter)($f_s = 44.1$ kHz)

			(Parameter)	
1	Gate	GATE	Threshold(dB)	-26
			Range(dB)	-56
			Attack(ms)	0
			Hold(ms)	2.56
			Decay(ms)	331
2	Ducking	DUCKING	Threshold(dB)	-19
			Range(dB)	-22
			Attack(ms)	93
			Hold(ms)	1.20 S
			Decay(ms)	6.32 S
3	A. Dr. BD	GATE	Threshold(dB)	-11
			Range(dB)	-53
			Attack(ms)	0
			Hold(ms)	1.93
			Decay(ms)	400
4	A. Dr. SN	GATE	Threshold(dB)	-8
			Range(dB)	-23
			Attack(ms)	1
			Hold(ms)	0.63
			Decay(ms)	238

(Preset Comp Parameter)($f_s = 44.1$ kHz)

			(Parameter)	
1	Comp	COMP	Threshold(dB)	-8
			RATIO(:1)	2.5
			Attack(ms)	60
			Out gain(dB)	0.0
			Knee	2
			Release(ms)	250
2	Expand	EXPAND	Threshold(dB)	-23
			Ratio(:1)	1.7
			Attack(ms)	1
			Out gain(dB)	3.5
			Knee	2
			Release(ms)	70
3	Compander(H)	COMPAND-H	Threshold(dB)	-10
			Ratio(:1)	3.5
			Attack(ms)	1
			Out gain(dB)	0.0
			Width(dB)	6
			Release(ms)	250
4	Compander(S)	COMPAND-S	Threshold(dB)	-8
			Ratio(:1)	4
			Attack(ms)	25
			Out gain(dB)	0.0
			Width(dB)	24
			Release(ms)	180

			(Parameter)	
5	A. Dr. BD	COMP	Threshold(dB)	-24
			Ratio(:1)	3
			Attack(ms)	9
			Out gain(dB)	5.5
			Knee	2
			Release(ms)	58
6	A. Dr. BD	COMPAND-H	Threshold(dB)	-11
			Ratio(:1)	3.5
			Attack(ms)	1
			Out gain(dB)	-1.5
			Width(dB)	7
			Release(ms)	192
7	A. Dr. SN	COMP	Threshold(dB)	-17
			Ratio(:1)	2.5
			Attack(ms)	8
			Out gain(dB)	3.5
			Knee	2
			Release(ms)	12
8	A. Dr. SN	EXPAND	Threshold(dB)	-23
			Ratio(:1)	2
			Attack(ms)	0
			Out gain(dB)	0.5
			Knee	2
			Release(ms)	151
9	A. Dr. SN	COMPAND-S	Threshold(dB)	-8
			Ratio(:1)	1.7
			Attack(ms)	11
			Out gain(dB)	0.0
			Width(dB)	10
			Release(ms)	128
10	A. Dr. Tom	EXPAND	Threshold(dB)	-20
			Ratio(:1)	2
			Attack(ms)	2
			Out gain(dB)	5.0
			Knee	2
			Release(ms)	749
11	A. Dr. OverTop	COMPAND-S	Threshold(dB)	-24
			Ratio(:1)	2
			Attack(ms)	38
			Out gain(dB)	-3.5
			Width(dB)	54
			Release(ms)	842
12	E. B. Finger	COMP	Threshold(dB)	-12
			Ratio(:1)	2
			Attack(ms)	15
			Out gain(dB)	4.5
			Knee	2
			Release(ms)	470

			(Parameter)	
13	E. B. Slap	COMP	Threshold(dB)	-12
			Ratio(:1)	1.7
			Attack(ms)	6
			Out gain(dB)	4.0
			Knee	hard
			Release(ms)	133
14	Syn.Bass	COMP	Threshold(dB)	-10
			Ratio(:1)	3.5
			Attack(ms)	9
			Out gain(dB)	3.0
			Knee	hard
			Release(ms)	250
15	Piano1	COMP	Threshold(dB)	-9
			Ratio(:1)	2.5
			Attack(ms)	17
			Out gain(dB)	1.0
			Knee	hard
			Release(ms)	238
16	Piano2	COMP	Threshold(dB)	-18
			Ratio(:1)	3.5
			Attack(ms)	7
			Out gain(dB)	6.0
			Knee	2
			Release(ms)	174
17	E. Guitar	COMP	Threshold(dB)	-8
			Ratio(:1)	3.5
			Attack(ms)	7
			Out gain(dB)	2.5
			Knee	4
			Release(ms)	261
18	A. Guitar	COMP	Threshold(dB)	-10
			Ratio(:1)	2.5
			Attack(ms)	5
			Out gain(dB)	1.5
			Knee	2
			Release(ms)	238
19	Strings1	COMP	Threshold(dB)	-11
			Ratio(:1)	2
			Attack(ms)	33
			Out gain(dB)	1.5
			Knee	2
			Release(ms)	749
20	Strings2	COMP	Threshold(dB)	-12
			Ratio(:1)	1.5
			Attack(ms)	93
			Out gain(dB)	1.5
			Knee	4
			Release(ms)	1.35 S

			(Parameter)	
21	Strings3	COMP	Threshold(dB)	-17
			Ratio(:1)	1.5
			Attack(ms)	76
			Out gain(dB)	2.5
			Knee	2
			Release(ms)	186
22	BrassSection	COMP	Threshold(dB)	-18
			Ratio(:1)	1.7
			Attack(ms)	18
			Out gain(dB)	4.0
			Knee	1
			Release(ms)	226
23	Syn.Pad	COMP	Threshold(dB)	-13
			Ratio(:1)	2
			Attack(ms)	58
			Out gain(dB)	2.0
			Knee	1
			Release(ms)	238
24	SamplingPerc	COMPAND-S	Threshold(dB)	-18
			Ratio(:1)	1.7
			Attack(ms)	8
			Out gain(dB)	-2.5
			Width(dB)	18
			Release(ms)	238
25	Sampling BD	COMP	Threshold(dB)	-14
			Ratio(:1)	2
			Attack(ms)	2
			Out gain(dB)	3.5
			Knee	4
			Release(ms)	35
26	Sampling SN	COMP	Threshold(dB)	-18
			Ratio(:1)	4
			Attack(ms)	8
			Out gain(dB)	8.0
			Knee	hard
			Release(ms)	354
27	Hip Comp	COMPAND-S	Threshold(dB)	-23
			Ratio(:1)	20
			Attack(ms)	15
			Out gain(dB)	0.0
			Width(dB)	15
			Release(ms)	163
28	Solo Vocal1	COMP	Threshold(dB)	-20
			Ratio(:1)	2.5
			Attack(ms)	31
			Out gain(dB)	2.0
			Knee	1
			Release(ms)	342

			(Parameter)	
29	Solo Vocal2	COMP	Threshold(dB)	-8
			Ratio(:1)	2.5
			Attack(ms)	26
			Out gain(dB)	1.5
			Knee	3
			Release(ms)	331
30	Chorus	COMP	Threshold(dB)	-9
			Ratio(:1)	1.7
			Attack(ms)	39
			Out gain(dB)	2.5
			Knee	2
			Release(ms)	226
31	Click Erase	EXPAND	Threshold(dB)	-33
			Ratio(:1)	2
			Attack(ms)	1
			Out gain(dB)	2.0
			Knee	2
			Release(ms)	284
32	Announcer	COMPAND-H	Threshold(dB)	-14
			Ratio(:1)	2.5
			Attack(ms)	1
			Out gain(dB)	-2.5
			Width(dB)	18
			Release(ms)	180
33	Limiter1	COMPAND-S	Threshold(dB)	-9
			Ratio(:1)	3
			Attack(ms)	20
			Out gain(dB)	-3.0
			Width(dB)	90
			Release(ms)	3.90 s
34	Limiter2	COMP	Threshold(dB)	0
			Ratio(:1)	
			Attack(ms)	0
			Out gain(dB)	0.0
			Knee	hard
			Release(ms)	319
35	Total Comp1	COMP	Threshold(dB)	-18
			Ratio(:1)	3.5
			Attack(ms)	94
			Out gain(dB)	2.5
			Knee	hard
			Release(ms)	447
36	Total Comp2	COMP	Threshold(dB)	-16
			Ratio(:1)	6
			Attack(ms)	11
			Out gain(dB)	6.0
			Knee	1
			Release(ms)	180

B: (Specification)

Scene Memory		99
(Sampling Frequency)	(Internal)	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
	(External)	: 44.1 kHz-10% ~ 48 kHz+6%
		2 : 88.2 kHz-10% ~ 96 kHz+6%
(Signal Delay)		2.3 ms CH INPUT STEREO OUT (fs=48 kHz)
		1.2 ms CH INPUT STEREO OUT (fs=96 kHz)
(Fader)		100 mm , x 25
(Fader Resolution)		+10 -96, - dB (256 /100 mm) (input fader)
		0 ~ -130, - dB (256 /100 mm) (master fader), (stereo fader)
(Harmonic Distortion)¹ (CH INPUT STEREO OUT) ((Input Gain)=)	fs=48 kHz	0.05% 20 Hz ~ 20 kHz @ +14 dB, 600 0.01% 1 kHz @ +18 dB, 600
	fs=96 kHz	0.05% 20 Hz ~ 40 kHz @ +14 dB, 600 0.01% 1 kHz @ +18 dB, 600
(Frequency Response) (CH INPUT STEREO OUT)		20 Hz-20 kHz, 0.5, -1.5 dB @ +4 dB, 600 (fs=48 kHz)
		20 Hz-40 kHz, 0.5, -1.5 dB @ +4 dB, 600 (fs=96 kHz)
(Dynamic Range) ()		110 dB DA (converter)(STEREO OUT)
		108 dB AD+DA (to STEREO OUT) @ fs=48 kHz
		106 dB typ. AD+DA (to STEREO OUT) @ fs=96 kHz
(Hum & Noise)² (20 Hz-20 kHz) Rs=150 (Input Gain)= (Input Pad)=0 dB		-128 dB
		-92 dB . STEREO OUT (STEREO OUT)
		-92 dB (96 dB S/N) STEREO OUT (STEREO CH INPUT (fader))
		-64 dB (68 dB S/N) STEREO OUTPUT (STEREO CH INPUT (fader))
(Voltage Gain)		74 dB CH INPUT (CH1-24) STEREO OUT/OMNI (BUS) OUT
		74 dB CH INPUT (CH1-24) OMNI (AUX) OUT (pre input fader))
		74 dB CH INPUT (CH1-24) CONTROL ROOM MONITOR OUT (STEREO (bus))
(Crosstalk)(@ 1 kHz) (Input Gain)=		-80 dB (CH1-24)
		-80 dB
AD (Ad Input)(1-24: A/B)	(Phantom)	A (XLR-3-31) +48 V DC
	(Pad)	0/26 dB (attenuation)
	Gain control	44 dB (-60 ~ -16), (detent)
	Peak indicator	HA 3 dB LED() .
	Signal indicator	HA 20 dB LED()
	(Insert)	OUT, IN (AD (converter))
	(Insert)	/
AD (converter)	24 (linear), 128 (fs=48 kHz)	
(Analog Input) (2TR IN ANALOG 1, 2)	AD (converter)	24 (linear), 128 (fs=48 kHz)
(SLOT 1-6)	가	(MY8, MY4)
(Digital Input) (2TR IN DIGITAL 1-3)	SRC	/ (1:3 3:1)

Input Channel CH1-96	(Input Patch)	—	
	(Phase)	/	
	(Gate)- 3	/	
		(key in): 12 (1-12, 13-24, 25-36, 37-48, 49-60, 61-72, 73-84, 85-96)/AUX1-12	
	(Comp)- 4	/	
		(key in): /	
		(Post-fader) (Pre-EQ)/ (Pre-fader)/	
	(Attenuator)	-96.0 ~ +12.0 dB (0.1 dB)	
	(EQ)	4 PEQ ⁵	
		/	
	(Delay)	0-43500	
	/	—	
	(Fader)	100 mm (INPUT/AUX1-12)	
	(Aux Send)	/	
		AUX1-12; (Pre-fader)/ (Post-fader)	
	(Solo)	/	
		(Pre-fader)/ (after pan)	
	(Pan)	127 (= 1-63, , = 1-63)	
	(Surround pan)	127 × 127	
	LFE	- , -96 dB ~ +10 dB (256)	
(Routing)	STEREO, BUS1-8, DIRECT OUT		
(Direct Out)	(Pre-EQ)/ (Pre-fader)/		
	(Post-fader)		
(Metering)	LCD		
	(Peak Hold) /		
(Talkback)	Level control	(Analog rotary potentiometer)	
	AD (converter)	24 (linear), 128	
	/	/AD IN 1-24	
	(Slate)	/	
Oscillator		0 ~ -96 dB (1 dB)	
	/	—	
		(Sine) 100 Hz, 1 kHz, 10 kHz, (pink noise), (burst noise)	
	(Routing)	BUS1-8, AUX1-12, MATRIX 1L-4R, STEREO L, R	
(Stereo Out)	DA (converter)	24 (linear), 128	
(Omni Out) 1-8	(Output Patch)	SURROUND MONITOR, STEREO, BUS1-8, AUX1-12, MATRIX 1L-4R, DIRECT OUT 1-96, INSERT OUT (CH1-96, BUS1-8, AUX1-12, MATRIX 1L-4R, STEREO)	
	DA (converter)	24 (linear), 128	
Room Monitor Out)(Control (,)		STEREO, 2TR IN DIGITAL 1, 2TR IN DIGITAL 2, 2TR IN DIGITAL 3, 2TR I N ANALOG 1, 2TR IN ANALOG 2, ASSIGN 1, 2 (BUS 1-8/AUX 1-12/MATRIX 1-4)	
	(Solo)	-96 ~ 0 dB (1 dB)	
	(Mono)	/	
	(Dimmer)	/	
	DA (converter)	24 (linear), 128	
	Level control	(Analog rotary potentiometer)	
	(Phone)	(Analog rotary potentiometer)	
	(Trim)	(Analog rotary potentiometer)	

(Studio Monitor Out)		CONTROL ROOM, STEREO, AUX 11, AUX 12
	DA (converter)	24 (linear), 128
	Level control	(Analog rotary potentiometer)
2TR (2TR Out Digital) 1-3	(Dither)	/ 16, 20, 24
	(Output Patch)	STEREO, BUS1-8, AUX 1-12, MATRIX 1L-4R, DIRECT OUT 1-96, INSERT OUT, CONTROL ROOM
	SRC	/ (1:3 3:1)
(Option Output) (1-6)	가	(MY8, MY4)
	(Output Patch)	SURROUND MONITOR, STEREO, BUS1-8, AUX1-12, MATRIX 1L-4R, DIRECT OUT 1-96, INSERT OUT (CH1-96, BUS1-8, AUX1-12, MATRIX 1L-4R, STEREO)
	(Dither)	/ 16/20/24
(Stereo)	(Comp)- 4	/ (Pre-EQ)/ (Pre-fader)/ (Post-fader)
	(Attenuator)	-96.0 ~ +12.0 dB (0.1 dB)
	(EQ)	4 PEQ ⁵ /
	/	—
	(Fader)	100 mm
	(Balance)	127 (=1-63, , =1-63)
	(Delay)	0-43500
	(Matrix Send)	(Pre-fader)/ (Post-fader) (- , -96 dB ~ +10 dB) :127 (=1-63, , =1-63)
	(Metering)	LCD (Peak Hold) /
	(Bus) 1-8	(Comp)- 4
(Attenuator)		-96.0 ~ +12.0 dB (0.1 dB)
(EQ)		4 PEQ ⁵ /
/		—
(Fader)		100 mm
(Delay)		0-43500
(Matrix Send)		(Pre-fader)/ (Post-fader) (- , -96 dB ~ +10 dB) :127 (=1-63, , =1-63)
(Bus to Stereo)		(- , -130 dB ~ 0 dB) / :127 (=1-63, , =1-63)
(Metering)		LCD (Peak Hold) /

(Aux) 1-12	(Comp)- 4	/
		(Pre-EQ)/ (Pre-fader)/ (Post-fader)
	(Attenuator)	-96.0 ~ +12.0 dB (0.1 dB)
	(EQ)	4baud PEQ ⁵
	/	—
	(Fader)	100 mm
	(Delay)	0-43500
	(Matrix Send)	(Pre-fader)/ (Post-fader) (- , -96 dB ~ +10 dB) :127 (=1-63, , =1-63)
(Metering)	LCD (Peak Hold) /	
(Matrix) 1L-4R	(Comp)- 4	/
		(Pre-EQ)/ (Pre-fader)/ (Post-fader)
	(Attenuator)	-96.0 ~ +12.0 dB (0.1 dB)
	(EQ)	4 PEQ ⁵
	/	—
	(Fader)	100 mm
	(Balance)	127 (=1-63, , =1-63)
	(Delay)	0-43500
(Metering)	LCD (Peak Hold) /	
(Surround Monitor)	(Mute)	/
	(Solo)	/
	(Source)	BUS1-8, SLOT 1-6
	Monitor to C-R	/
	Oscillator	(pink noise)/500-2 kHz/1 kHz
	(Monitor matrix)	5.1 5.1, 5.1 3-1, 5.1 ST, 3.1 3.1, 3.1 ST
	(Bass management)	8
	Monitor control	(-12.0 dB ~ 12 dB 0.1 dB), (Delay)(0-30.0 msec 0.1 msec)
(Internal Effect) (1-8)	(Bypass)	/
	In/out	8-In, 8-Out((Effect)1-2): . 2-In, 2-Out((Effect)3-8): .
	(Effect in)	AUX1-12/INSERT OUT/
	(Effect out)	/ (Effect)
(Graphic EQ) (GEQ 1-6)	/	—
		31
		± 15 dB, ± 12 dB, ± 6 dB, -24 dB
	(Insert)	BUS1-8/AUX1-12/STEREO L, R/MATRIX 1L-4R
	/	120 V, 60 Hz 300 W
		220-240 V, 50/60 Hz 300 W
	(H x D x W)	257 x 821 x 906 mm (10.1" x 32.3" x 35.7")
		43 kg (94.8 lbs)
		10-35 °C (50-95 °F)
		-20 ~ 60 °C (-4 ~ 140 °F)

	AC CD-ROM(Studio Manager)
	(MY8, MY4) (PEAK METER BRIDGE: MB2000 (SIDE PANEL): SP2000

1. (Harmonic Distortion) @80 kHz 6 dB/
2. (Hum & Noise) 6dB/ 12.7 kHz dB/ (attenuation)
20 kHz
3. 305 " (Gate Parameter)"
4. 306 " (Comp Parameter)"
5. 305 " (EQ Parameter)"

(EQ Parameter)

	LOW/HPF	L-MID	H-MID	HIGH /LPF
Q	0.1-10.0 (41) HPF	0.1-10.0 (41)		0.1-10.0 (41) LPF
F	21.2 Hz-20 kHz (1/12 oct)			
G	-18 dB (0.1 dB) HPF /	-18 dB (0.1 dB)		-18 dB (0.1 dB) LPF /

(Gate Parameter)

(Gate)	(Threshold)	-54 dB ~ 0 dB (0.1 dB)
	(Range)	-70 dB ~ 0 dB (1 dB)
	(Attack)	0 ms-120 ms (1 ms)
	(Hold)	0.02 ms-1.96 s (216) @ 48 kHz
		0.02 ms-2.13 s (216) @ 44.1 kHz
		0.01 ms-981 ms (216) @ 96 kHz
		0.01 ms-1.06 s (216) @ 88.2 kHz
	(Decay)	5 ms-42.3 s (160) @ 48 kHz
		6 ms-46.0 s (160) @ 44.1 kHz
		3 ms-21.1 s (160) @ 96 kHz
3 ms-23.0 s (160) @ 88.2 kHz		
(Ducking)	(Threshold)	-54 dB - 0 dB (0.1 dB)
	(Range)	-70 dB - 0 dB (1 dB)
	(Attack)	0 ms-120 ms (1 ms)
	(Hold)	0.02ms-1.96s (216) @ 48 kHz
		0.02ms-2.13s (216) @ 44,1 kHz
		0.01 ms-981 ms (216) @ 96 kHz
		0.01ms-1.06s (216) @ 88.2 kHz
	(Decay)	5 ms-42.3 s (160) @ 48 kHz
		6 ms-46.0 s (160) @ 44.1 kHz
		3 ms-21.1 s (160) @ 96 kHz
3 ms-23.0 s (160) @ 88.2 kHz		

(Comp Parameter)

(Comp)	(Threshold)	-54 dB - 0 dB (0.1 dB)
	(x :1)	x=1, 1.1, 1.3, 1.5, 1.7, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 20, (16)
	(Out Gain)	0 dB ~ +18 dB (0.1 dB)
	(Knee)	, 1, 2, 3, 4, 5 (6)
	(Attack)	0 ms-120 ms (1 ms)
	(Release)	5 ms-42.3 s (160) @ 48 kHz
		6 ms-46.0 s (160) @ 44.1 kHz
		3 ms-21.1 s (160) @ 96 kHz
3 ms-23.0 s (160) @ 88.2 kHz		
(Expander)	(Threshold)	-54 dB - 0 dB (0.1 dB)
	(x :1)	x=1, 1.1, 1.3, 1.5, 1.7, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 20, (16)
	(Out Gain)	0 dB ~ +18 dB (0.1 dB)
	(Knee)	, 1, 2, 3, 4, 5 (6)
	(Attack)	0 ms-120 ms (1 ms)
	(Release)	5 ms-42.3 s (160) @ 48 kHz
		6 ms-46.0 s (160) @ 44.1 kHz
		3 ms-21.1 s (160) @ 96 kHz
3 ms-23.0 s (160) @ 88.2 kHz		
(Compander) H	(Threshold)	-54 dB - 0 dB (0.1 dB)
	(x :1)	x=1, 1.1, 1.3, 1.5, 1.7, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 20, (16)
	(Out Gain)	-18 dB - 0 dB (0.1 dB)
	(Width)	1 dB-90 dB (1 dB)
	(Attack)	0 ms-120 ms (1 ms)
	(Release)	5 ms-42.3 s (160) @ 48 kHz
		6 ms-46.0 s (160) @ 44.1 kHz
		3 ms-21.1 s (160) @ 96 kHz
3 ms-23.0 s (160) @ 88.2 kHz		
(Compander) S	(Threshold)	-54 dB - 0 dB (0.1 dB)
	(x :1)	x=1, 1.1, 1.3, 1.5, 1.7, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 20 (15)
	(Out Gain)	-18 dB - 0 dB (0.1 dB)
	(Width)	1 dB-90 dB (1 dB)
	(Attack)	0 ms-120 ms (1 ms)
	(Release)	5 ms-42.3 s (160) @ 48 kHz
		6 ms-46.0 s (160) @ 44.1 kHz
		3 ms-21.1 s (160) @ 96 kHz
3 ms-23.0 s (160) @ 88.2 kHz		

Control

(Analog)

INPUT 1-24	+48 V	/
	PAD	0/26 dB
	GAIN control	-16 ~ -60 dB
	INSERT	/
TALKBACK	TALKBACK LEVEL control	
STUDIO MONITOR OUT	STUDIO LEVEL control	
CONTROL ROOM MONITOR OUT	CONTROL ROOM LEVEL control	
CONTROL ROOM MONITOR OUT SMALL	SMALL TRIM control	
PHONES	PHONES LEVEL control	

(Digital)

FADER MODE	MATRIX SELECT	DISPLAY
		MATRIX 1, MATRIX 2, MATRIX 3, MATRIX 4 (w/LED)
	AUX SELECT	DISPLAY
		AUX 1, AUX 2, AUX 3, AUX 4, AUX 5, AUX 6, AUX 7, AUX 8, AUX 9, AUX 10, AUX 11, AUX 12 (w/LED)
FADER MODE	FADER, AUX/MTRX (w/LED)	
ENCODER MODE	DISPLAY	
	PAN, AUX/MTRX, ASSIGN 1, ASSIGN 2, ASSIGN 3, ASSIGN 4 (w/LED)	
DISPLAY CONTROL	DISPLAY	DATA, DIO, SETUP, UTILITY, MIDI, REMOTE, METER, VIEW, PAIR, GROUP, INPUT PATCH, OUTPUT PATCH
	EFFECTS/PLUG-INS	DISPLAY , ,
		INTERNAL EFFECTS, GRAPHIC EQUALIZERS, PLUG-INS, CHANNEL INSERTS 1, 2, 3, 4, 5, 6, 7, 8
		Parameter control: 1, 2, 3, 4
	, F1, F2, F3, F4,	
	LCD control	

SELECTED CHANNEL	ROUTING	DISPLAY
		1, 2, 3, 4, 5, 6, 7, 8, STEREO, DIRECT, FOLLOW PAN (w/LED)
	PHASE/INSERT	DISPLAY
		, INSERT ON (w/LED)
	DELAY	DISPLAY
		ON (w/LED)
		TIME control
		MIX/FB control(w/SW)
	AUX/MATRIX SEND	DISPLAY, BANK
		ON (w/LED) x 4
LEVEL control(w/SW) x 4		
DYNAMICS	DISPLAY, GATE /COMP	
	GATE ON, COMP ON control(w/LED)	
	control(Parameter control) x 5	
PAN/SURROUND (/)	DISPLAY	
	L, R, LINK, GRAB, EFFECT (w/LED)	
	control	
	(control)	
EQUALIZER()	DISPLAY	
	EQ ON (w/LED)	
	ATT control, GAIN control: LOW, LOW-MID, HIGH-MID, HIGH	
	FREQUENCY/Q control: LOW, LOW-MID, HIGH-MID, HIGH control(w/SW)	
CH COPY/PASTE	COPY, PASTE	
MONITOR	MONITOR	DISPLAY
	STUDIO	CONTROL ROOM, STEREO, AUX 11, AUX 12 (w/LED)
	SOLO	CLEAR
		SOLO CONTRAST control
	CONTROL ROOM	: 2TR D1, 2TR D2, 2TR D3, 2TR A1, 2TR A2, STEREO, ASSIGN 1, ASSIGN 2 (w/LED)
	SURROUND	BUS, ASSIGN 1, ASSIGN 2 (w/LED)
		SURROUND MONITOR LEVEL control
	MONO, DIMMER, SMALL (w/LED)	
TALKBACK	SLATE, TALKBACK (w/LED)	
SCENE MEMORY, AUTOMIX USER DEFINED KEYS	SCENE MEMORY	DISPLAY
		, , STORE, RECALL
	AUTOMIX	DISPLAY
		ENABLE, REC, ABORT/UNDO, AUTOREC, RETURN, RELATIVE, TOUCH SENSE (w/LED)
		OVERWRITE : FADER, ON, PAN, SURROUND, AUX, AUX ON, EQ (w/LED)
USER DEFINED KEYS	DISPLAY	
	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 (w/LED)	

MACHINE CONTROL	TRACK ARMING	DISPLAY, ALL CLEAR 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, MASTER, TRACK ARMING GROUP: A, B, C, D (w/LED)
	LOCATOR	DISPLAY LOCATE MEMORY: 1, 2, 3, 4, 5, 6, 7, 8, AUDITION, PRE, IN, OUT, POST, SET, MTR, RETURN TO ZERO, END, ONLINE, LOOP, QUICK PUNCH, ROLL BACK, REHEARSAL, MASTER (w/LED)
	TRANSPORT CONTROL	REW, FF, STOP, PLAY, REC, SHUTTLE, SCRUB (w/LED)
CHANNEL STRIP	(Encoder)	x 24 (1-24)
		AUTO x 24 (1-24), SEL x 24 (1-24), SOLO x 24 (1-24), ON x 24 (1-24)
	(Fader) (w/)	x 24 (1-24)
MASTER	LAYER	Input Channel: 1-24, 25-48, 49-72, 73-96, MASTER, REMOTE 1, REMOTE 2, REMOTE 3, REMOTE 4 (w/LED)
	STEREO	AUTO, SEL, ON (w/LED) (Fader)(w/) x 1
DATA ENTRY		DISPLAY HISTORY: BACK, FORWARD, INC, DEC, , , , , ENTER
	(Encoder)	(Parameter wheel)

(Indicator)

(Analog)

PEAK LED	x24	INPUT 1-24
SIGNAL LED	x24	INPUT 1-24

(Digital)

DISPLAY CONTROL	DISPLAY	320 x240 LCD (w/)
SELECTED CHANNEL	DELAY	MIX, FB LEDs x2
	AUX/MATRIX SEND	BANK LEDs x3
	DYNAMICS	GATE, COMP LEDs x2
	PAN/SURROUND	LEDs x10
	EQUALIZER	FREQUENCY, Q LEDs 2 x4 dB, Hz, kHz 3 x4 3 LEDs x4 ()
MONITOR	SOLO	LED x1
SCENE MEMORY	Scene Memory	2 LED x1
CHANNEL STRIP	CH NAME, (Routing), (Pa- nning position), EQ, INS(), DLY, COMP, GATE : / , (Touch Sense)	2 VFD (FL) x3

(Effect) (1-8)	(Preset)	52 (Effect) 3-8: 44)
	(User Memory)	76
(Comp)	(Preset)	36
	(User Memory)	92
(Gate)	(Preset)	4
	(User Memory)	124
(EQ)	(Preset)	40
	(User Memory)	160
(Channel)	(Preset)	2
	(User Memory)	127
GEQ (GEQ 1-6)	(Preset)	1
	(User Memory)	128
(Surround Monitor)	(Preset)	1
	(User Memory)	32
(Input Patch)	(Preset)	1
	(User Memory)	32
(Output Patch)	(Preset)	1
	(User Memory)	32
Bus to Stereo	(Preset)	1
	(User Memory)	32

(Analog Input)

(Input)	(Pad)	(Gain)	(Load Impedance)		(Input level)			(Connector)
					(Sensitivity) ¹		(clipping)	
INPUT A/B 1-24	0	-60 dB	3k	50-600	-70 dB (0.245 mV)	-60 dB (0.775 mV)	-46 dB (3.88 mV)	A XLR-3-31 () ²
				600	-26 dB (38.8 mV)	-16 dB (0,123 V)	-2 dB (616 mV)	B (TRS)() ³
	26	-16 dB			0 dB (775 mV)	+10 dB (2,45 V)	+24 dB (12,28 V)	
INSERT IN 1-24	—	—	10K	600	-6 dB (388 mV)	+4 dB (1,23 V)	+18 dB (6.16 V)	(TRS)() ³
2TR IN ANALOG 1 [L, R]	—	—	10K	600	+4 dB (1,23 V)	+4 dB (1,23 V)	+18 dB (6.16 V)	(TRS)() ³
2TR IN ANALOG 2 [L, R]	—	—	10K	600	-10 dBV (0.316 V)	-10 dBV (0.316 V)	+4 dBV (1.58 V)	()

- (Sensitivity) +4 dB (1.23 V) (Fader) control (Output)
 - XLR 3-31 (1= (GND), 2= (HOT), 3= (COLD)).
 - (= (HOT), = (COLD), = (GND)).
- , dB
 2TR IN ANALOG 1, 2 (INSERT IN 1-24) 24 (linear), 128
 +48 V DC() CH INPUT (1-24) XLR

(Analog Output)

(Output)	(Source Impedance)		GAIN SW ()	(Output level)		(Connector)
					(clipping)	
STEREO OUT [L, R]	600	10k	—	-10 dBV (0.316 V)	+4 dBV (1.58 V)	()
	150	600	—	+4 dB (1,23 V)	+18 dB (6.16 V)	XLR-3-32 () ¹
STUDIO MONITOR OUT [L, R]	150	10k	—	+4 dB (1,23 V)	+18 dB (6.16 V)	(TRS)() ²
C-R MONITOR OUT LARGE [L, R]	150	600	—	+4 dB (1,23 V)	+18 dB (6.16 V)	XLR-3-32 () ¹
C-R MONITOR OUT SMALL [L, R]	150	600	—	+4 dB (1,23 V)	+18 dB (6.16 V)	XLR-3-32 () ¹
OMNI OUT 1-8	150	10k	+18 dB ()	+4 dB (1,23 V)	+18 dB (6.16 V)	(TRS)() ²
			+4 dB	-10 dB (0.245 V)	+4 dB (1,23 V)	
INSERT OUT 1-24	600	10k	—	+4 dB (1,23 V)	+18 dB (6.16 V)	(TRS)() ²
PHONES	100	8	—	4 mW	25 mW	(TRS) () ³
		40	—	12 mW	75 mW	

- XLR 3-32 (1=GND, 2=HOT, 3=COLD).
 - (=HOT, =COLD, =GND).
 - PHONES (=LEFT, =RIGHT, =GND).
- STEREO OUT [L, R], 0 Dbv 1.00 Vrms
 , dB (INSERT OUT 1-24) 24 , 128

(Digital Input)

(Input)					(Connector)
2TR IN DIGITAL	1	AES/EBU	24	RS422	XLR 3-31 () ¹
	2	AES/EBU	24	RS422	XLR 3-31 () ¹
	3	IEC-60958	24	0.5 Vpp/75	PHONO
CASCADE IN		—	—	RS422	D-SUB 68P ()

1. XLR 3-31

(1= (GND), 2= (HOT), 3= (COLD)).

(Digital Output)

(Output)					(Connector)
2TR OUT DIGITAL	1	AES/EBU ¹ 가	24 ²	RS422	XLR 3-32 () ³
	2	AES/EBU ¹ 가	24 ²	RS422	XLR 3-32 () ³
	3	IEC-60958 ⁴	24 ²	0.5V pp/75	
CASCADE OUT		—	—	RS422	D-SUB 68P ()

1. 2TR OUT DIGITAL 1, 2

:2

(Emphasis):

(Sampling rate):

2. Dither: 16/20/24

3. XLR 3-32 (1= (GND), 2= (HOT), 3= (COLD)).

4. 2TR OUT DIGITAL 3

:2

: 2 PCM (Encoder)/ (Decoder)

:

(Emphasis):

: II (1000 ppm)

(Sampling rate):

I/O (I/O Slot)

I/O SLOT

SLOT 1

			(Input)	(Output)	가
MY8-AT	ADAT		8 IN	8 OUT ((Output Patch)) ¹	6
MY8-TD	TASCAM		8 IN	8 OUT ((Output Patch)) ¹	6
MY8-AE	AES/EBU		8 IN	8 OUT ((Output Patch)) ¹	6
MY4-AD	ANALOG IN		4 IN	—	6
MY8-AD	ANALOG IN		8 IN	—	6
MY4-DA	ANALOG OUT		—	4 OUT ((Output Patch)) ¹	6
MY8-AD24	ANALOG IN		8 IN	—	6
MY8-AD96	ANALOG IN		8 IN	—	6
MY8-DA96	ANALOG OUT		—	8 OUT ((Output Patch)) ¹	6
MY8-AE96S	AES/EBU		8 IN	8 OUT ((Output Patch)) ¹	4
MY8-AE96	AES/EBU		8 IN	8 OUT ((Output Patch)) ¹	6

1. I/O

Control I/O

I/O				(Console) Connector
TO HOST	Serial	—	RS422	DIN 8P
	USB	USB 1.1	0 V-3.3 V	B USB
MIDI	IN	MIDI	—	DIN 5P
	OUT	MIDI	—	DIN 5P
	THRU	MIDI	—	DIN 5P
TIME CODE IN	MTC	MIDI	—	DIN 5P
	SMPTE	SMPTE	- 10 dB/10k	XLR-3-31 () ¹
WORD CLOCK	IN	—	TTL/75 _ (ON/OFF) ²	BNC
	OUT 1, 2	—	TTL/75	BNC
CONTROL		—	—	D-SUB 25P ()
REMOTE		—	RS422	D-SUB 9P ()
KEYBOARD		PS/2	—	DIN 6P
STORAGE CARD		—	—	
METER		—	RS422	D-SUB 15P ()

1. XLR 3-31

(1=GND, 2=HOT, 3=COLD).

2.

(Connector Pin)**CASCADE IN**

1	GND	35	GND
2	INPUT 1-2(+)	36	INPUT 1-2(-)
3	INPUT 3-4(+)	37	INPUT 3-4(-)
4	INPUT 5-6(+)	38	INPUT 5-6(-)
5	INPUT 7-8(+)	39	INPUT 7-8(-)
6	INPUT 9-10(+)	40	INPUT 9-10(-)
7	INPUT 11-12(+)	41	INPUT 11-12(-)
8	INPUT 13-14(+)	42	INPUT 13-14(-)
9	INPUT 15-16(+)	43	INPUT 15-16(-)
10	DTR IN(+)	44	DTR IN(-)
11	RTS OUT(+)	45	RTS OUT(-)
12	GND	46	GND
13	WORD CLOCK IN(+)	47	WORD CLOCK IN(-)
14	WORD CLOCK OUT(+)	48	WORD CLOCK OUT(-)
15	CONTROL IN(+)	49	CONTROL IN(-)
16	CONTROL OUT(+)	50	CONTROL OUT(-)
17	GND	51	ID6 IN
18	GND	52	ID6 OUT
19	INPUT 17-18(+)	53	INPUT 17-18(-)
20	INPUT 19-20(+)	54	INPUT 19-20(-)
21	INPUT 21-22(+)	55	INPUT 21-22(-)
22	INPUT 23-24(+)	56	INPUT 23-24(-)
23	RESERVED	57	RESERVED
24	RESERVED	58	RESERVED
25	RESERVED	59	RESERVED
26	RESERVED	60	RESERVED
27	ID0 IN	61	ID1 IN
28	ID2 IN	62	ID3 IN
29	ID4 IN	63	ID5 IN
30	ID0 OUT	64	ID1 OUT
31	ID2 OUT	65	ID3 OUT
32	ID4 OUT	66	ID5 OUT
33	MSB IN	67	2CH/LINE IN
34	FG	68	FG

CASCADE OUT

1	GND	35	GND
2	OUTPUT 1-2(+)	36	OUTPUT 1-2(-)
3	OUTPUT 3-4(+)	37	OUTPUT 3-4(-)
4	OUTPUT 5-6(+)	38	OUTPUT 5-6(-)
5	OUTPUT 7-8(+)	39	OUTPUT 7-8(-)
6	OUTPUT 9-10(+)	40	OUTPUT 9-10(-)
7	OUTPUT 11-12(+)	41	OUTPUT 11-12(-)
8	OUTPUT 13-14(+)	42	OUTPUT 13-14(-)
9	OUTPUT 15-16(+)	43	OUTPUT 15-16(-)
10	DTR OUT(+)	44	DTR OUT(-)
11	RTS IN(+)	45	RTS IN(-)
12	GND	46	GND
13	WORD CLOCK OUT(+)	47	WORD CLOCK OUT(-)
14	WORD CLOCK IN(+)	48	WORD CLOCK IN(-)
15	CONTROL OUT(+)	49	CONTROL OUT(-)
16	CONTROL IN(+)	50	CONTROL IN(-)
17	GND	51	ID6 OUT
18	GND	52	ID6 IN
19	OUTPUT 17-18(+)	53	OUTPUT 17-18(-)
20	OUTPUT 19-20(+)	54	OUTPUT 19-20(-)
21	OUTPUT 21-22(+)	55	OUTPUT 21-22(-)
22	OUTPUT 23-24(+)	56	OUTPUT 23-24(-)
23	RESERVED	57	RESERVED
24	RESERVED	58	RESERVED
25	RESERVED	59	RESERVED
26	RESERVED	60	RESERVED
27	ID0 OUT	61	ID1 OUT
28	ID2 OUT	62	ID3 OUT
29	ID4 OUT	63	ID5 OUT
30	ID0 IN	64	ID1 IN
31	ID2 IN	65	ID3 IN
32	ID4 IN	66	ID5 IN
33	MSB OUT	67	2CH/LINE OUT
34	FG	68	FG

REMOTE

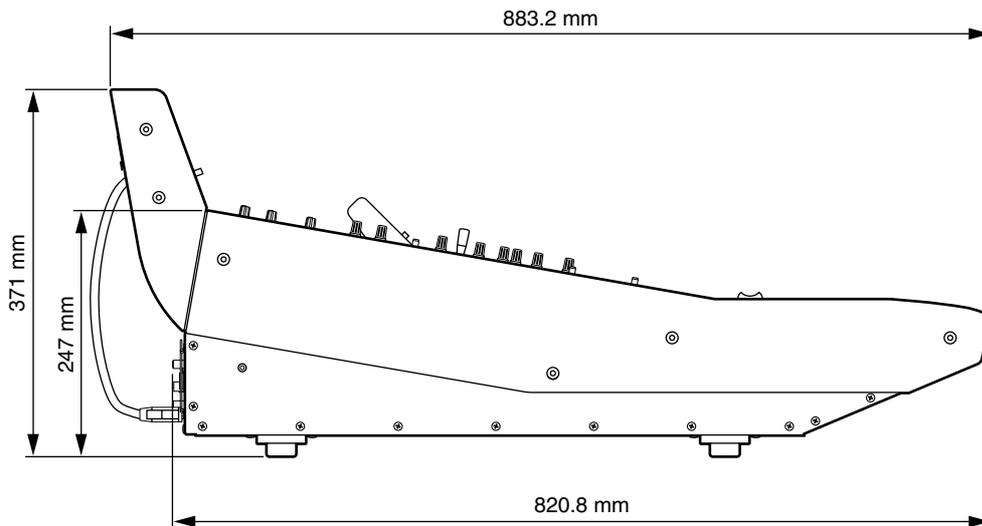
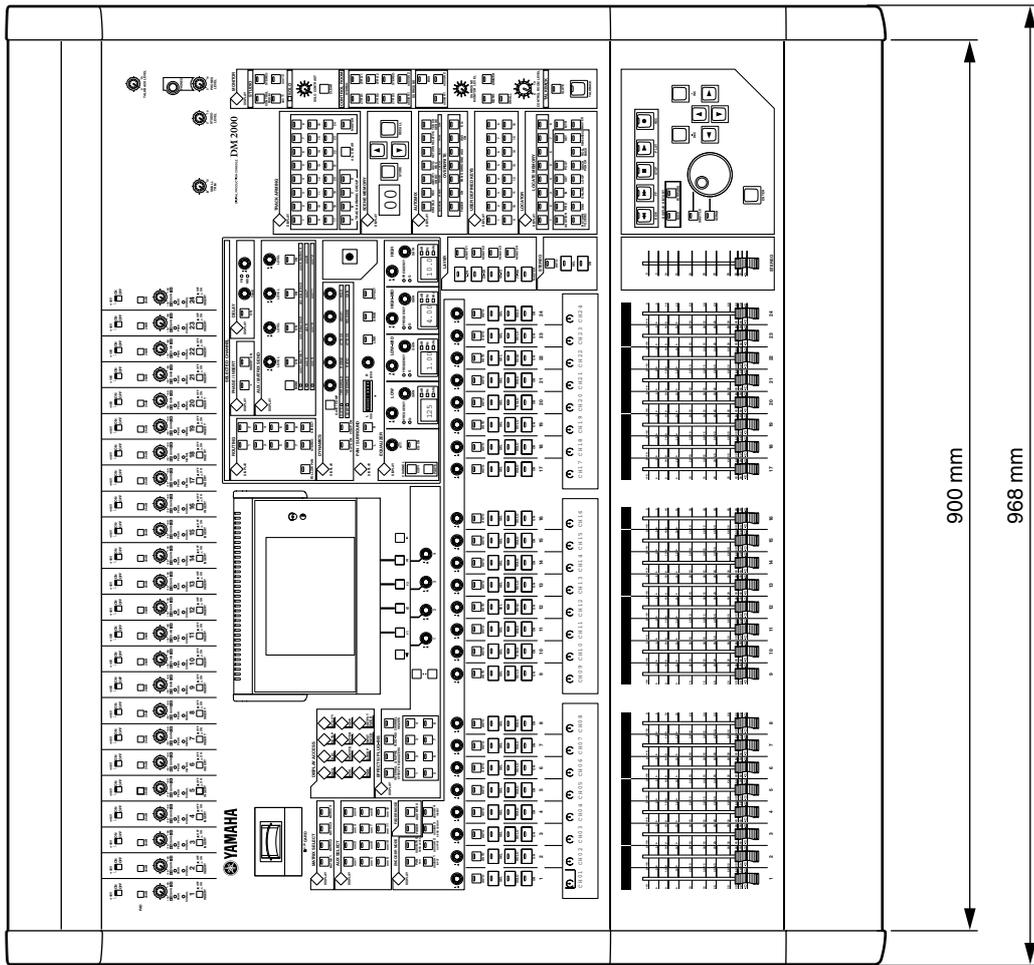
1	GND	6	RX+/GND ¹
2	RX-RX- ¹	7	RTS/RX+ ¹
3	TX-/TX+ ¹	8	CTS/TX- ¹
4	TX+/GND ¹	9	GND
5	N.C.		

1. RS422 (AD824)/SONY 9- (P2)

CONTROL

1	GPO0	14	GPO1
2	GPO2	15	GPO3
3	GPO4	16	GPO5
4	GPO6	17	GPO7
5	GND	18	GND
6	GND	19	GND
7	GND	20	GND
8	GND	21	+5V
9	+5V	22	GPI0
10	GPI1	23	N.C.
11	N.C.	24	SOLO ¹
12	SMODE ¹	25	MAS/SLV ¹
13	SPARE ¹		

1. 02R SOLO control



EN55103-1 EN55103-2 /
 : 31 A
 : E1, E2, E3 E4

C:MIDI

Scene Memory

	Scene	Scene
1	01	
2	02	
3	03	
4	04	
5	05	
6	06	
7	07	
8	08	
9	09	
10	10	
11	11	
12	12	
13	13	
14	14	
15	15	
16	16	
17	17	
18	18	
19	19	
20	20	
21	21	
22	22	
23	23	
24	24	
25	25	
26	26	
27	27	
28	28	
29	29	
30	30	
31	31	
32	32	
33	33	
34	34	
35	35	
36	36	
37	37	
38	38	
39	39	
40	40	
41	41	
42	42	
43	43	

(Program Change Table)

	Scene	Scene
44	44	
45	45	
46	46	
47	47	
48	48	
49	49	
50	50	
51	51	
52	52	
53	53	
54	54	
55	55	
56	56	
57	57	
58	58	
59	59	
60	60	
61	61	
62	62	
63	63	
64	64	
65	65	
66	66	
67	67	
68	68	
69	69	
70	70	
71	71	
72	72	
73	73	
74	74	
75	75	
76	76	
77	77	
78	78	
79	79	
80	80	
81	81	
82	82	
83	83	
84	84	
85	85	
86	86	

	Scene	Scene
87	87	
88	88	
89	89	
90	90	
91	91	
92	92	
93	93	
94	94	
95	95	
96	96	
97	97	
98	98	
99	99	
100	00	
101	-	
102	-	
103	-	
104	-	
105	-	
106	-	
107	-	
108	-	
109	-	
110	-	
111	-	
112	-	
113	-	
114	-	
115	-	
116	-	
117	-	
118	-	
119	-	
120	-	
121	-	
122	-	
123	-	
124	-	
125	-	
126	-	
127	-	
128	-	

(Parameter)

0	NO ASSIGN		
1	FADER H	CHANNEL	INPUT1
2	FADER H	CHANNEL	INPUT2
3	FADER H	CHANNEL	INPUT3
4	FADER H	CHANNEL	INPUT4
5	FADER H	CHANNEL	INPUT5
6	FADER H	CHANNEL	INPUT6
7	FADER H	CHANNEL	INPUT7
8	FADER H	CHANNEL	INPUT8
9	FADER H	CHANNEL	INPUT9
10	FADER H	CHANNEL	INPUT10
11	FADER H	CHANNEL	INPUT11
12	FADER H	CHANNEL	INPUT12
13	FADER H	CHANNEL	INPUT13
14	FADER H	CHANNEL	INPUT14
15	FADER H	CHANNEL	INPUT15
16	FADER H	CHANNEL	INPUT16
17	FADER H	CHANNEL	INPUT17
18	FADER H	CHANNEL	INPUT18
19	FADER H	CHANNEL	INPUT19
20	FADER H	CHANNEL	INPUT20
21	FADER H	CHANNEL	INPUT21
22	FADER H	CHANNEL	INPUT22
23	FADER H	CHANNEL	INPUT23
24	FADER H	CHANNEL	INPUT24
25	FADER H	CHANNEL	INPUT25
26	FADER H	CHANNEL	INPUT26
27	FADER H	CHANNEL	INPUT27
28	FADER H	CHANNEL	INPUT28
29	FADER H	CHANNEL	INPUT29
30	FADER H	CHANNEL	INPUT30
31	FADER H	CHANNEL	INPUT31
32	NO ASSIGN		
33	FADER L	CHANNEL	INPUT1
34	FADER L	CHANNEL	INPUT2
35	FADER L	CHANNEL	INPUT3
36	FADER L	CHANNEL	INPUT4
37	FADER L	CHANNEL	INPUT5
38	FADER L	CHANNEL	INPUT6
39	FADER L	CHANNEL	INPUT7
40	FADER L	CHANNEL	INPUT8
41	FADER L	CHANNEL	INPUT9
42	FADER L	CHANNEL	INPUT10
43	FADER L	CHANNEL	INPUT11
44	FADER L	CHANNEL	INPUT12
45	FADER L	CHANNEL	INPUT13
46	FADER L	CHANNEL	INPUT14
47	FADER L	CHANNEL	INPUT15
48	FADER L	CHANNEL	INPUT16
49	FADER L	CHANNEL	INPUT17
50	FADER L	CHANNEL	INPUT18
51	FADER L	CHANNEL	INPUT19
52	FADER L	CHANNEL	INPUT20
53	FADER L	CHANNEL	INPUT21
54	FADER L	CHANNEL	INPUT22
55	FADER L	CHANNEL	INPUT23
56	FADER L	CHANNEL	INPUT24
57	FADER L	CHANNEL	INPUT25
58	FADER L	CHANNEL	INPUT26
59	FADER L	CHANNEL	INPUT27

(Control Change Table)

60	FADER L	CHANNEL	INPUT28
61	FADER L	CHANNEL	INPUT29
62	FADER L	CHANNEL	INPUT30
63	FADER L	CHANNEL	INPUT31
64	ON	CHANNEL	INPUT1
65	ON	CHANNEL	INPUT2
66	ON	CHANNEL	INPUT3
67	ON	CHANNEL	INPUT4
68	ON	CHANNEL	INPUT5
69	ON	CHANNEL	INPUT6
70	ON	CHANNEL	INPUT7
71	ON	CHANNEL	INPUT8
72	ON	CHANNEL	INPUT9
73	ON	CHANNEL	INPUT10
74	ON	CHANNEL	INPUT11
75	ON	CHANNEL	INPUT12
76	ON	CHANNEL	INPUT13
77	ON	CHANNEL	INPUT14
78	ON	CHANNEL	INPUT15
79	ON	CHANNEL	INPUT16
80	ON	CHANNEL	INPUT17
81	ON	CHANNEL	INPUT18
82	ON	CHANNEL	INPUT19
83	ON	CHANNEL	INPUT20
84	ON	CHANNEL	INPUT21
85	ON	CHANNEL	INPUT22
86	ON	CHANNEL	INPUT23
87	ON	CHANNEL	INPUT24
88	ON	CHANNEL	INPUT25
89	PAN	CHANNEL	INPUT1
90	PAN	CHANNEL	INPUT2
91	PAN	CHANNEL	INPUT3
92	PAN	CHANNEL	INPUT4
93	PAN	CHANNEL	INPUT5
94	PAN	CHANNEL	INPUT6
95	PAN	CHANNEL	INPUT7
96	PAN	CHANNEL	INPUT8
97	PAN	CHANNEL	INPUT9
98	PAN	CHANNEL	INPUT10
99	PAN	CHANNEL	INPUT11
100	PAN	CHANNEL	INPUT12
101	PAN	CHANNEL	INPUT13
102	PAN	CHANNEL	INPUT14
103	PAN	CHANNEL	INPUT15
104	PAN	CHANNEL	INPUT16
105	PAN	CHANNEL	INPUT17
106	PAN	CHANNEL	INPUT18
107	PAN	CHANNEL	INPUT19
108	PAN	CHANNEL	INPUT20
109	PAN	CHANNEL	INPUT21
110	PAN	CHANNEL	INPUT22
111	PAN	CHANNEL	INPUT23
112	PAN	CHANNEL	INPUT24
113	PAN	CHANNEL	INPUT25
114	PAN	CHANNEL	INPUT1
115	PAN	CHANNEL	INPUT2
116	PAN	CHANNEL	INPUT3
117	PAN	CHANNEL	INPUT4
118	PAN	CHANNEL	INPUT5
119	PAN	CHANNEL	INPUT6

MIDI

1.

	rx/tx	
8n NOTE OFF	rx	Effect control (Internal)
9n NOTE ON	rx	Effect control (Internal)
8n CONTROL CHANGE	rx/tx	Parameter control
Cn PROGRAM CHANGE	rx/tx	Scene memory

2.

	rx/tx	
F1 MIDI TIME CODE QUARTER FRAME	rx	TIME REFERENCE()가 MIDI CLOC
F2 SONG POSITION POINTER	rx	TIME REFERENCE()가 MIDI CLOCK

3.

	rx/tx	
F8 TIMING CLOCK	rx	MIDI
FA START	rx*	(Automix) (
FB CONTINUE	rx*	(Automix) (
FC STOP	rx*	(Automix)
FE ACTIVE SENSING	rx	MIDI
FF RESET	rx	

(Automix)TIME REFERENCE MIDI CLOCK

4.

4.1

	rx/tx	
F0 7F dd 06 MMC COMMAND	tx	MMC (MMC)
F0 7F dd 07 MMC RESPONSE	rx	MMC (MMC)
F0 7F dd 01 MIDI TIME CODE	rx	TIME REFERENCE()가 MTC

4.2

4.2.1 (Bulk Dump)

	rx/tx	
F0 43 0n 7E BULK DUMP DATA	rx/tx	BULK DUMP DATA()
F0 43 2n 7E BULK DUMP REQUEST	rx/tx	BULK DUMP REQUEST()

DM2000 (Bulk Dump)

DATA NAME	tx/rx	
'm'	tx/rx	Scene Memory
'S'	tx/rx	(Setup Memory)
'a'	tx/rx	(Automix)
'R'	tx/rx	(Input Patch)
'O'	tx/rx	(Output Patch)
'H'	tx/rx	(Channel)
'G'	tx/rx	(Gate)
'Y'	tx/rx	(Comp)
'Q'	tx/rx	(EQ)
'E'	tx/rx	(Effect)
'F'	tx/rx	GEQ
'J'	tx/rx	Bus to Stereo
'K'	tx/rx	(Surround Monitor)
'P'	tx/rx	
'C'	tx/rx	
'L'	tx/rx	(User Defined Layer)
'I'	tx/rx	(Plug-In)
'V'	tx/rx	(User Defined Key)
'N'	tx/rx	(Plug-In Effect)

4.2.2 (Parameter)

	rx/tx	
F0 43 1n 3E 06 PARAMETER CHANGE	rx/tx	DM2000
F0 43 3n 3E 06 PARAMETER REQUEST	rx/tx	DM2000
F0 43 1n 3E 7F PARAMETER CHANGE	rx/tx	
F0 43 3n 3E 7F PARAMETER REQUEST	rx/tx	

DM2000

	tx/rx	
1	tx/rx	(Edit buffer)
2	tx/rx	(Patch)
3	tx/rx	(Setup)
4	tx/rx	(Backup)
16	tx/rx	(Recall, store, title, pair)
32	tx/rx	(Remote Key)
33	tx/rx	
34	tx/rx	

4.2.3

	rx/tx	
F0 43 5n CARD FILER	rx/tx	()

** tx DM2000 rx DM2000

1. (Note Off)(8n)

[Rx CH]가
(Effect)
STATUS 1000nnnn 8n Note off message
DATA 0nnnnnnn nn Note number
0vvvvvvv vv Velocity (ignored)

2. (Note On)(9n)

[Rx CH]가
(Effect)
STATUS 1001nnnn 9n Note on message
DATA 0nnnnnnn nn Note number
0vvvvvvv vv Velocity (1-127:on, 0:off)

3. (Control Change)(Bn)

[Control Change Rx]가 [Rx CH]가
[OMNI]가
Change ECHO]가 가 MIDI OUT 가
[TABLE] 가 , [Control assign table] 가
가 CONTROL CHANGE ASSIGN
PARAMETER LIST . [NRPN] , NRPN control
(62h, 63h) DATA ENTRY control (06h, 26h) 가 CONTROL
CHANGE ASSIGN PARAMETER LIST
[TABLE] , [Control Change TX]가 [Control assign
table] 가 가 [Tx CH]
CONTROL CHANGE ASSIGN PARAMETER
LIST
[NRPN] , [Control Change TX]가
[Tx CH] 가 , NRPN control (62h, 63h)
DATA ENTRY control (06h, 26h) 가 CONTROL CHANGE ASSIGN PARAMETER LIST

[TABLE]

STATUS	1011nnnn	Bn	Control change
DATA	0ccccccc	cc	Control number (0-95, 102-119)
	0vvvvvvv	vv	Control value (0-127)

[NRPN]

STATUS	1011nnnn	Bn	Control change
DATA	01100010	62	NRPN LSB
	0vvvvvvv	vv	LSB of parameter number

STATUS	1011nnnn	Bn	Control change	*1
DATA	01100011	63	NRPN MSB	
	0vvvvvvv	vv	MSB of parameter number	

STATUS	1011nnnn	Bn	Control change	*1
DATA	00100110	26	LSB of data entry	
	0vvvvvvv	vv	LSB of parameter data	

STATUS	1011nnnn	Bn	Control change	*1, *2
DATA	00000110	06	MSB of data entry	*2
	0vvvvvvv	vv	MSB of parameter data	*2

*1) , , 가 가 가

*2) 가 7 가 가

4. (Program Change)(Cn)

[Program Change RX]가 [Rx CH]
[OMNI]가 ,
[Program Change Table] Scene Memory 가
[Program Change ECHO]가 가
[Program Change TX]가 , Scene Memory
[Program Change Table] 가 [Tx CH]
 , 가 가 Studio Manager
()

STATUS	1100nnnn	Cn	Program change
DATA	0nnnnnnn	nn	Program number (0-127)

5. (Song Position Pointer)(F2)

TIME REFERENCE	(Automix)가	MIDI CLOCK	
STATUS	11110010	F2	Song position pointer
DATA	0vvvvvvv	vv	Song position LSB
	0vvvvvvv	vv	Song position MSB

6. (Timing Clock)(F8)

	(Automix) TIME REFERENCE	MIDI CLOCK(MIDI	
	(Effect)	(Automix)	
STATUS	11111000	F8	Timing clock

7. (FA)

CLOCK	(Automix) TIME REFERENCE	MIDI	
, START	(Automix)		
(Automix)가	TIMING CLOCK		
STATUS	11111010	FA	Start

8. (FB)

CLOCK	(Automix) TIME REFERENCE	MIDI	
	(Automix)		
	, CONTINUE	TIMING CLOCK	
	(Automix)가		
STATUS	11111011	FB	Continue

9. (FC)

CLOCK	(Automix) TIME REFERENCE	MIDI	
	(Automix)		
STATUS	11111100	FC	Stop

10. (Active Sensing)(FE)

	가 , 400 ms	MIDI	
STATUS	11111101	FE	Active sensing

11. (FF)

	가 ,	MIDI	
STATUS	11111111	FF	System reset

12. (F0)

12.1 MIDI MACHINE CONTROL

DM2000 control
MMC

12.2 BULK DUMP

DM2000

DUMP DATA

F0 43 0n 7E cc <Model ID> tt mm mm [Data ...] cs F7

DUMP REQUEST

F0 43 2n 7E <Model ID> tt mm mm F7
n Device Number
cc cc DATA COUNT (the number of bytes that follow this, ending before the checksum)
<Model ID> Model ID (for the DM2000, this is 4C 4D 20 20 38 43 31 32)
tt DATA TYPE
mm mm DATA NUMBER
cs CHECK SUM

(ID) 가 DM2000
CHECK SUM BYTE COUNT(LOW) CHECK SUM
, 7 0

CHECK SUM = (-sum)&0x7F

[Bulk RX]가 [Rx CH] SUB STATUS
(Bulk Dump)가 , (Bulk Dump)가
(Bulk Dump)

[MIDI]-[BULK DUMP] [Tx CH]
(Bulk Dump) 가 [Rx CH]
7 8 8 7

```
[
d[0~6]:actual data
b[0~7]:bulk data
b[0] = 0;
for( I=0; I<7; I++){
  if( d[I]&0x80){
    b[0] |= 1<<(6-I);
  }
  b[I+1] = d[I]&0x7F;
}
]
[
d[0~6]:actual data
b[0~7]:bulk data
for( I=0; I<7; I++){
  b[0] <<= 1;
  d[I] = b[I+1]+(0x80&b[0]);
}
]
```

12.2.1 (Scene Bulk Dump)

DM2000	Scene Memory		
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01101101	6D	'm'
	0mmmmm	mh	m=0-99, 256(Scene0-99, EDIT BUFFER)
	mm		
	0mmmmm	ml	Receive is effective 1-99, 256
	mm		
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddd	ds	Scene data of block[mm]
	:	:	
	0ddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.2 Scene Memory (Bulk Dump)

DATA NAME	256	(Edit buffer)	가
(Bulk Dump)			
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01101101	6D	'm'
	0mmmmm	mh	m=0-99, 256(Scene0-99, EDIT BUFFER)
	mm		
	0mmmmm	ml	
	mm		
EOX	11110111	F7	End of exclusive

12.2.3 (Setup Memory Bulk Dump)

DM2000	(Setup Memory)	(User Defined Memory),	(User Defined Plug-In),
		(User Defined Key),	(Bulk Dump)
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01010011	53	'S'
	00000010	02	
	00000000	00	No.256 = Current
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddd	ds	Setup memory data
	:	:	
	0ddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.4 (Setup Memory Bulk Dump)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01010011	53	'S'
	00000010	02	
	00000000	00	No.256 = Current
EOX	11110111	F7	End of exclusive

12.2.5 (User Defined Layer Bulk Dump)

DATA NAME	가	가()	
(Bulk Dump)			
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'

DATA NAME	01001100	4C	'L'
	00000000	00	
	0bbbbbbb	bb	b=0-3(bank no.1-4)
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	User define layer
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.6 (User Defined Layer Bulk Dump)

DATA NAME			
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01001100	4C	'L'
	00000000	00	
	0bbbbbbb	bb	b=0-3(bank no.1-4)
EOX	11110111	F7	End of exclusive

12.2.7 (User Defined Plug-In Bulk Dump)

DATA NAME			
	가		가()
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01001001	49	'1'
	00000000	00	
	0bbbbbbb	bb	b=0-7(bank no.1-8)
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	User define plug-in data
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.8 (User Defined Plug-In Bulk Dump)

DATA NAME			
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)

FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01001001	49	'1'
	00000000	00	
	0bbbbbbb	bb	b=0-7(bank no.1-8)
EOX	11110111	F7	End of exclusive

12.2.9 (User Defined Key Bulk Dump)

DATA NAME			
	가		가()
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	cccccccc	ch	data count = ch * 128 + cl
COUNT LOW	cccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01010110	56	'V'
	00000000	00	
	0bbbbbbb	bb	b=0-3(bank no.A-D)
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	User define key data
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.10 (User Defined Key Bulk Dump)

DATA NAME			
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01010110	56	'V'
BANK No.	00000000	00	
	0bbbbbbb	bb	b=0-3(bank no.A-D)
EOX	11110111	F7	End of exclusive

12.2.11 (Control Change Table Bulk Dump)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)

FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	00000011	ch	data count = ch * 128 + cl
COUNT LOW	00010010	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01000011	43	'C'
	00000000	02	
	00000000	00	No.256 = Current
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddd	ds	Control change table data
	:	:	(342/7)*8+(342%7)+1=391bytes? unfixed
	0ddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.12 (Control Change Table Bulk Dump)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01000011	43	'C'
	00000000	02	
	00000000	00	No.256 = Current
EOX	11110111	F7	End of exclusive

12.2.13 (Program Change Table Bulk Dump)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01010000	50	'P'
	00000000	02	
	00000000	00	No.256 = Current
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddd	ds	Program change table data
	:	:	
	0ddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.14 (Program Change Table Bulk Dump)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01010000	50	'P'
	00000000	02	
	00000000	00	No.256 = Current
EOX	11110111	F7	End of exclusive

12.2.15 (EQ) (Bulk Dump)

DATA NAME
0:Library no.1 - 199:Library no.200, 256:CH1 - 351:CH96, 384:BUS1 - 391:BUS8, 512:AUX1 - 523:AUX12, 640:MATRIX1L - 647:MATRIX4R, 768:STEREO L - 769:STEREO R
256 (Edit buffer)

DM2000 , (40-199, 256-).

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01010001	51	'Q'
LIB. No. H	0bbbbbbb	bb	0-199(EQ Library no.1-200), 256-(channel current data)
LIB. No. L	0bbbbbbb	bb	
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddd	ds	EQ Library data
	:	:	
	0ddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.16 (EQ) (Bulk Dump)

DATA NAME ()
)
STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'
DATA NAME 01010001 51 'Q'

LIB. No. H 0bbbbbbb bb 0-199(EQ Library no.1-200),
256-(channel current data)
LIB. No. L 0bbbbbbb bb
EOX 11110111 F7 End of exclusive

12.2.17 (Comp) (Bulk Dump)

DATA NAME
()

0:Library no.1 - 127:Library no.128, 256:CH1 - 351:CH96, 384:BUS1 -
391:BUS8, 512:AUX1 - 523:AUX12, 640:MATRIX1L - 647:MATRIX4R,
768:STEREO L - 769:STEREO R
256 (Edit buffer)
DM2000 , (36-127,
256-).

STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW 0ccccccc cl
01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'
00110010 32 '2'

DATA NAME 01011001 59 'Y'
LIB. No. H 0bbbbbbb bb 0-127(COMP Library no.1-128),
256-(channel current data)

LIB. No. L 0bbbbbbb bb
BLOCK INFO. 0ttttttt tt total block number(minimum number
is 0)
0bbbbbbb bb current block number(0-total block
number)
DATA 0ddddd ds COMP Library data
:
:
0ddddd de
CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX 11110111 F7 End of exclusive

12.2.18 (Comp) (Bulk Dump)

DATA NAME
()

STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI
Channel)
FORMAT No. 01111110 7E Universal bulk dump
01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'
00110010 32 '2'

DATA NAME 01011001 59 'Y'
LIB. No. H 0bbbbbbb bb 0-127(COMP Library no.1-128),
256-(channel current data)

LIB. No. L 0bbbbbbb bb
EOX 11110111 F7 End of exclusive

12.2.19 (Gate) (Bulk Dump)

DATA NAME
()

0:Library no.1 - 127:Library no.128, 256:CH1 - 351:CH96
256 (Edit buffer)
DM2000 , (4-127, 256-).
STATUS 11110000 F0 System exclusive message

ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI
Channel)
FORMAT No. 01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW 0ccccccc cl

01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'

DATA NAME 01000111 47 'G'
LIB. No. H 0bbbbbbb bb 0-127(GATE Library no.1-128),
256-351(channel current data)

LIB. No. L 0bbbbbbb bl
BLOCK INFO. 0ttttttt tt total block number(minimum number
is 0)
0bbbbbbb bb current block number(0-total block
number)

DATA 0ddddd ds GATE Library data

:
:
0ddddd de
CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX 11110111 F7 End of exclusive

12.2.20 (Gate) (Bulk Dump)

DATA NAME
()

STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'
00110010 32 '2'

DATA NAME 01000111 47 'G'
LIB. No. H 0bbbbbbb bb 0-127(GATE Library no.1-128),
256-351(channel current data)

LIB. No. L 0bbbbbbb bl
EOX 11110111 F7 End of exclusive

12.2.21 (Effect) (Bulk Dump)

DATA NAME
()

0:Library no.1 - 127:Library no.128, 256:EFFECT1 - 263:EFFEC8
256-263 (Edit buffer)
DM2000 , (52-127,
256-263).

STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW 0ccccccc cl

01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'

DATA NAME 01000110 46 'E'

LIB. No. H 0bbbbbbb bb 0-127(Effect Library no.1-128),
256-263(Effect1-8 current)

LIB. No. L 0bbbbbbb bl

BLOCK INFO. 0ttttttt tt total block number(minimum number
is 0)

0bbbbbbb bb current block number(0-total block
number)

DATA 0ddddd ds Effect Library data

: :

0ddddd de

CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F

EOX 11110111 F7 End of exclusive

12.2.22 (Effect) (Bulk Dump)

DATA NAME
().

STATUS 11110000 F0 System exclusive message

ID No. 01000011 43 Manufacture's ID number (YAMAHA)

SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)

FORMAT No. 01111110 7E Universal bulk dump

01001100 4C 'L'

01001101 4D 'M'

00100000 20 ''

00100000 20 ''

00111000 38 '8'

01000011 43 'C'

00110001 31 '1'

00110010 32 '2'

DATA NAME 01000110 46 'E'

LIB. No. H 0bbbbbbb bb 0-127(Effect Library no.1-128),
256-263(Effect1-8 current)

LIB. No. L 0bbbbbbb bl

EOX 11110111 F7 End of exclusive

12.2.23 GEQ (Bulk Dump)

DATA NAME
().

0:Library no.0 - 128:Library no.128, 256:GEQ1 - 261:GEQ6
256-261 (Edit buffer)

DM2000 , (1-128,
256-261).

STATUS 11110000 F0 System exclusive message

ID No. 01000011 43 Manufacture's ID number (YAMAHA)

SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)

FORMAT No. 01111110 7E Universal bulk dump

COUNT HIGH 0ccccccc ch data count = ch * 128 + cl

COUNT LOW 0ccccccc cl

01001100 4C 'L'

01001101 4D 'M'

00100000 20 ''

00100000 20 ''

00111000 38 '8'

01000011 43 'C'

00110001 31 '1'

00110010 32 '2'

DATA NAME 01000111 47 'F'

LIB. No. H 0bbbbbbb bb 0-128(GEQ Library no.0-128),
256-261(GEQ1-6 Current)

LIB. No. L 0bbbbbbb bl

BLOCK INFO. 0ttttttt tt total block number(minimum number is 0)

0bbbbbbb bb current block number(0-total block
number)

DATA 0ddddd ds GEQ Library data

: :

0ddddd de

CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F

EOX 11110111 F7 End of exclusive

12.2.24 GEQ (Bulk Dump)

DATA NAME
().

STATUS 11110000 F0 System exclusive message

ID No. 01000011 43 Manufacture's ID number (YAMAHA)

SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)

FORMAT No. 01111110 7E Universal bulk dump

01001100 4C 'L'

01001101 4D 'M'

00100000 20 ''

00100000 20 ''

00111000 38 '8'

01000011 43 'C'

00110001 31 '1'

00110010 32 '2'

DATA NAME 01000111 47 'F'

LIB. No. H 0bbbbbbb bb 0-128(GEQ Library no.0-128),
256-261(GEQ1-6 current)

LIB. No. L 0bbbbbbb bl

EOX 11110111 F7 End of exclusive

12.2.25 (Channel) (Bulk Dump)

DATA NAME
().

0:Library no.0 - 128:Library no.128,
256:CH1 - 351:CH96, 384:BUS1 - 391:BUS8, 512:AUX1 - 523:AUX12,
640:MATRIX1L - 647:MATRIX4R, 768:STEREO L - 769:STEREO R
256 (Edit buffer)

DM2000 , (2-128, 256-).

STATUS 11110000 F0 System exclusive message

ID No. 01000011 43 Manufacture's ID number (YAMAHA)

SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI
Channel)

FORMAT No. 01111110 7E Universal bulk dump

COUNT HIGH 0ccccccc ch data count = ch * 128 + cl

COUNT LOW 0ccccccc cl

01001100 4C 'L'

01001101 4D 'M'

00100000 20 ''

00100000 20 ''

00111000 38 '8'

01000011 43 'C'

00110001 31 '1'

00110010 32 '2'

DATA NAME 01001001 49 'H'

LIB. No. H 0bbbbbbb bb 0-128(Channel Library no.0-128),
256-(current)

LIB. No. L 0bbbbbbb bl

BLOCK INFO. 0ttttttt tt total block number(minimum number
is 0)

0bbbbbbb bb current block number(0-total block
number)

DATA 0ddddd ds channel Library data

: :

0ddddd de

CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F

EOX 11110111 F7 End of exclusive

12.2.26 (Channel) (Bulk Dump)

DATA NAME
().

STATUS 11110000 F0 System exclusive message

ID No. 01000011 43 Manufacture's ID number (YAMAHA)

SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)

FORMAT No. 01111110 7E Universal bulk dump

01001100 4C 'L'

01001101 4D 'M'

00100000 20 ''

00100000 20 ''

00111000 38 '8'

01000011 43 'C'

00110001 31 '1'

00110010 32 '2'

DATA NAME 01001001 49 'H'

LIB. No. H 0bbbbbbb bb 0-128(Channel Library no.0-128),
256-(current)

LIB. No. L 0bbbbbbb bl
 EOX 11110111 F7 End of exclusive

12.2.27 (Input Patch) (Bulk Dump)

DATA NAME

0:Library no.0 - 32:Library no.32, 256:current input patch data
 DM2000 , (1-32, 256).
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)
 FORMAT No. 01111110 7E Universal bulk dump
 COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
 COUNT LOW 0ccccccc cl
 01001100 4C 'L'
 01001101 4D 'M'
 00100000 20 ''
 00100000 20 ''
 00111000 38 '8'
 01000011 43 'C'
 00110001 31 '1'
 00110010 32 '2'
 DATA NAME 01010010 52 'R'
 0bbbbbbb bb 0-32(Library no.0-32), 256(Current data)
 0bbbbbbb bl
 BLOCK INFO. 0ttttttt tt total block number(minimum number is 0)
 0bbbbbbb bb current block number(0-total block number)
 DATA 0ddddddd ds Input Patch Library data
 : :
 0ddddddd de
 CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
 EOX 11110111 F7 End of exclusive

12.2.28 (Input Patch) (Bulk Dump)

DATA NAME

0:Library no.0 - 32:Library no.32, 256:
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
 FORMAT No. 01111110 7E Universal bulk dump
 01001100 4C 'L'
 01001101 4D 'M'
 00100000 20 ''
 00100000 20 ''
 00111000 38 '8'
 01000011 43 'C'
 00110001 31 '1'
 00110010 32 '2'
 DATA NAME 01010010 52 'R'
 0bbbbbbb bb 0-32(Library no.0-32), 256(Current data)
 0bbbbbbb bl
 EOX 11110111 F7 End of exclusive

12.2.29 (Output Patch) (Bulk Dump)

DATA NAME

0:Library no.0 - 32:Library no.32, 256:
 DM2000 , (1-32, 256).
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)
 FORMAT No. 01111110 7E Universal bulk dump
 COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
 COUNT LOW 0ccccccc cl
 01001100 4C 'L'
 01001101 4D 'M'

00100000 20 ''
 00100000 20 ''
 00111000 38 '8'
 01000011 43 'C'
 00110001 31 '1'
 00110010 32 '2'
 DATA NAME 01001111 4F 'O'
 0bbbbbbb bb 0-32(Library no.0-32), 256(Current data)
 00100000 bl
 BLOCK INFO. 0ttttttt tt total block number(minimum number is 0)
 0bbbbbbb bb current block number(0-total block number)
 DATA 0ddddddd ds Input Patch Library data
 : :
 0ddddddd de
 CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
 EOX 11110111 F7 End of exclusive

12.2.30 (Output Patch) (Bulk Dump)

DATA NAME

0:Library no.0 - 32:Library no.32, 256:
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
 FORMAT No. 01111110 7E Universal bulk dump
 01001100 4C 'L'
 01001101 4D 'M'
 00100000 20 ''
 00100000 20 ''
 00111000 38 '8'
 01000011 43 'C'
 00110001 31 '1'
 00110010 32 '2'
 DATA NAME 01001111 4F 'O'
 0bbbbbbb bb 0-32(Library no.0-32), 256(Current data)
 0bbbbbbb bl
 EOX 11110111 F7 End of exclusive

12.2.31 (Bus to Stereo) (Bulk Dump)

DATA NAME

0:Library no.0 - 32:Library no.32, 256:
 DM2000 ,
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)
 FORMAT No. 01111110 7E Universal bulk dump
 COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
 COUNT LOW 0ccccccc cl
 01001100 4C 'L'
 01001101 4D 'M'
 00100000 20 ''
 00100000 20 ''
 00111000 38 '8'
 01000011 43 'C'
 00110001 31 '1'
 00110010 32 '2'
 DATA NAME 01001010 4A 'J'
 0bbbbbbb bb 0-32(Library no.0-32), 256(Current data)
 0bbbbbbb bl
 BLOCK INFO. 0ttttttt tt total block number(minimum number is 0)
 0bbbbbbb bb current block number(0-total block number)
 DATA 0ddddddd ds Input Patch Library data
 : :
 0ddddddd de

CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
 EOX 11110111 F7 End of exclusive

12.2.32 Bus to Stereo (Bulk Dump)

DATA NAME

0:Library no.0 - 32:Library no.32, 256:

STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
 FORMAT No. 01111110 7E Universal bulk dump
 01001100 4C 'L'
 01001101 4D 'M'
 00100000 20 ''
 00100000 20 ''
 00111000 38 '8'
 01000011 43 'C'
 00110001 31 '1'
 00110010 32 '2'
 DATA NAME 01001010 4A 'J'
 0bbbbbbb bb 0-32(Library no.0-32), 256(Current data)
 0bbbbbbb bl
 EOX 11110111 F7 End of exclusive

12.2.33 (Surround Monitor) (Bulk Dump)

DATA NAME

0:Library no.0 - 32:Library no.32, 256:

DM2000 , (1-32, 256).
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)
 FORMAT No. 01111110 7E Universal bulk dump
 COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
 COUNT LOW 0ccccccc cl
 01001100 4C 'L'
 01001101 4D 'M'
 00100000 20 ''
 00100000 20 ''
 00111000 38 '8'
 01000011 43 'C'
 00110001 31 '1'
 00110010 32 '2'
 DATA NAME 01001011 4B 'K'
 0bbbbbbb bb 0-32(Library no.0-32), 256(Current data)
 0bbbbbbb bl
 BLOCK INFO. 0ttttttt tt total block number(minimum number is 0)
 0bbbbbbb bb current block number(0-total block number)
 DATA 0ddddd ds Input Patch Library data
 : :
 0ddddd de
 CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
 EOX 11110111 F7 End of exclusive

12.2.34 (Surround Monitor) (Bulk Dump)

DATA NAME

0:Library no.0 - 32:Library no.32, 256:

STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
 FORMAT No. 01111110 7E Universal bulk dump
 01001100 4C 'L'
 01001101 4D 'M'
 00100000 20 ''
 00100000 20 ''

00111000 38 '8'
 01000011 43 'C'
 00110001 31 '1'
 00110010 32 '2'
 DATA NAME 01001011 4B 'K'
 0bbbbbbb bb 0-32(Library no.0-32), 256(Current data)
 0bbbbbbb bl
 EOX 11110111 F7 End of exclusive

12.2.35 (Plug-In Effect) (Bulk Dump)

DATA NAME

0:SLOT 1 - 5:SLOT 6

ID ID가 가

(Plug-In Effect) 가

가
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)
 FORMAT No. 01111110 7E Universal bulk dump
 COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
 COUNT LOW 0ccccccc cl
 01001100 4C 'L'
 01001101 4D 'M'
 00100000 20 ''
 00100000 20 ''
 00111000 38 '8'
 01000011 43 'C'
 00110001 31 '1'
 00110010 32 '2'
 DATA NAME 01000001 41 'N'
 0mmmmm mh 0-5 (SLOT1-6)
 mm
 0mmmmm ml
 mm
 DATA 0xxxxxxx xh block count (High)
 0xxxxxxx xl block count (Low)
 0yyyyyyy yh total size (High)
 0yyyyyyy yl total size (Low)
 0000iiii Developer id (High)
 0000iiii Developer id (Low)
 0000jjjj Product id (High)
 0000jjjj Product id (Low)
 0ddddd ds Plug-in Effect card memory data
 : (1024/7)*8+(1024%7)+1=1171 bytes
 0ddddd de
 CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
 EOX 11110111 F7 End of exclusive

12.2.36 (Plug-In Effect) (Bulk Dump)

DATA NAME

0:SLOT 1 - 5:SLOT 6

STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
 FORMAT No. 01111110 7E Universal bulk dump
 01001100 4C 'L'
 01001101 4D 'M'
 00100000 20 ''
 00100000 20 ''
 00111000 38 '8'
 01000011 43 'C'
 00110001 31 '1'
 00110010 32 '2'
 DATA NAME 01000001 41 'A'
 0mmmmmmmm 0-5 (SLOT1-6)
 0mmmmmmml
 EOX 11110111 F7 End of exclusive

12.3 (Parameter Change)

12.3.1

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	0ttttttt	tt	Data type
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
DATA *)	0ddddddd	dd	Data
	:	:	
EOX	11110111	F7	End of exclusive

가 2

12.3.2 ()

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	01111111	7F	Universal
ADDRESS	0ttttttt	tt	Data type
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
DATA *)	0ddddddd	dd	Data
	:	:	
EOX	11110111	F7	End of exclusive

가 2

12.3.3

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	0ttttttt	tt	Data type
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
EOX	11110111	F7	End of exclusive

12.3.4 ()

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	01111111	7F	Universal
ADDRESS	0ttttttt	tt	Data type
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
EOX	11110111	F7	End of exclusive

12.3.5

12.3.6 (:Edit buffer)

[Parameter change RX]가 [Rx CH]가

SUB STATUS
[Parameter change ECHO]가

[Parameter change TX]가 [Control assign table]가 [Tx CH]

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	01111111	7F	Universal
ADDRESS	00000001	01	Edit Buffer
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
DATA	0ddddddd	dd	Data
	:	:	
EOX	11110111	F7	End of exclusive

12.3.7 (:Edit buffer)

[Parameter change RX]가 [Rx CH] SUB STATUS

[Parameter change ECHO]가 Parameter Change()

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	01111111	7F	Universal
ADDRESS	00000001	01	Edit Buffer
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
EOX	11110111	F7	End of exclusive

12.3.8 ((Patch))

[Parameter change RX]가 [Rx CH] SUB STATUS

[Parameter change ECHO]가

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	00000010	02	Patch data
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
DATA	0ddddddd	dd	Data
	:	:	
EOX	11110111	F7	End of exclusive

12.3.9 ((Patch))

[Parameter change RX]가 [Rx CH] SUB STATUS

[Parameter change ECHO]가 Parameter Change()

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)

Effect is 0:Effect 1-7:Effect 8, GEQ is 0:GEQ1-5:GEQ6
16383(0x3FFF) 가
(,)
(DM2000)
*2) [Program change table]
()

12.3.15 (:)

[Parameter change RX]가 [Rx CH] SUB STATUS

[Parameter change ECHO]가 , /

[Parameter change ECHO]가 가 [Rx CH] 가

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	7F	Universal
ADDRESS	00010000	10	Function call Library
	0100aaaa	4a	Address UL (function)
	0nnnnnnn	nn	Address LU (number H)
	0nnnnnnn	nn	Address LL (number L)
DATA	0ddddd	dd	title 1
	:	:	
	0ddddd	dd	title x(depend on the library)
EOX	11110111	F7	End of exclusive

SCENE LIB TITLE	0x40	0-99, 256(0:response only)	16
EQ LIB TITLE	0x41	1-200(1-40:response only)	16
GATE LIB TITLE	0x42	1-128(1-4:response only)	16
COMP LIB TITLE	0x43	1-128(1-36:response only)	16
EFF LIB TITLE	0x44	1-128(1-52:response only)	16
GEQ LIB TITLE	0x45	0-128(0:response only)	16
CHANNEL LIB TITLE	0x46	0-128(0-1:response only)	16
INPATCH LIB TITLE	0x47	0-32(0:response only)	16
OUTPATCH LIB TITLE	0x48	0-32(0:response only)	16
Bus to Stereo LIB TITLE	0x49	0-32(0:response only)	16
Surround Monitor LIB TITLE	0x4A	0-32(0:response only)	16
AUTOMIX LIB TITLE	0x4B	1-16	16

12.3.16 (:)

[Parameter change RX]가 [Rx CH] SUB STATUS

[Parameter change ECHO]가 가 [Rx CH]

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	7F	Universal
ADDRESS	00010000	10	Function call Library
	0100aaaa	4a	Address UL (function)
	0nnnnnnn	nn	Address LU (number H)
	0nnnnnnn	nn	Address LL (number L)
EOX	11110111	F7	End of exclusive

12.3.17 (:Scene/)

[Parameter change RX]가 [Rx CH] SUB STATUS

[Parameter change ECHO]가 , /

[Parameter change ECHO]가 가

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	7F	Universal
ADDRESS	00010000	10	Function call Library
	0110aaaa	6a	Address UL (function)
	0nnnnnnn	nn	Address LU (number H)
	0nnnnnnn	nn	Address LL (number L)
EOX	11110111	F7	End of exclusive

SCENE LIB CLEAR	0x60	1-99
EQ LIB CLEAR	0x61	41-200
GATE LIB CLEAR	0x62	5-128
COMP LIB CLEAR	0x63	37-128
EFF LIB CLEAR	0x64	1-128
GEQ LIB CLEAR	0x65	0-128
CHANNEL LIB CLEAR	0x66	2-128
INPATCH LIB CLEAR	0x67	0-32
OUTPATCH LIB CLEAR	0x68	0-32
Bus to Stereo LIB CLEAR	0x69	0-32
Surround Monitor LIB CLEAR	0x6A	0-32
AUTOMIX LIB CLEAR	0x6B	1-16

12.3.18 (: (Pair),)

[Parameter change RX]가 [Rx CH] SUB STATUS

ECHO]가 , [Parameter change (pairing) 가/ (PAIR)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	7F	Universal
ADDRESS	00010001	11	Function call Pair
	0000aaaa	0a	Function
DATA	0ddddd	dd	Source channel number H
	0ddddd	dd	Source channel number L
	0ddddd	dd	Destination channel number H
	0ddddd	dd	Destination channel number L
EOX	11110111	F7	End of exclusive

PAIR ON COPY	0x00	*1)
PAIR ON RESET BOTH	0x01	*1)
PAIR OFF	0x02	*1)

*1)0:CH1 - 95:CH96, 128:BUS1 - 135:BUS8, 256:AUX1 - 267:AUX12, 384:MATRIX1L - 391:MATRIX4R, 512:STEREO L - 513:STEREO R
Effect is 0:Effect 1-7:Effect 8, GEQ is 0:GEQ1-5:GEQ6
PAIR() , (pairing) 가
PAIR ON COPY ,

12.3.19 (: (Effect))

[Parameter change RX]가 [Rx CH] SUB STATUS

[Parameter change ECHO]가 (Effect((

STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0001nnnn 1n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00000110 7F Universal
 ADDRESS 00010010 12 Function call Event
 0000aaaa 0a Function
 DATA 00000000 00 -
 0ddddd dd Release:0, Press:1
 00000000 00 -
 0ddddd dd Destination Effect Number 0 - 7
 EOX 11110111 F7 End of exclusive

Freeze Play	0x00	0:Effect1-7:Effect8
Freeze Record	0x01	0:Effect1-7:Effect8
5.1	0x02	0:Effect1-1:Effect2
5.1	0x03	0:Effect1-1:Effect2

(Effect)

12.3.20 (Remote key)

[Parameter change RX]가 [Rx CH] SUB STATUS
 [Parameter change ECHO]가
 가 (PARAMETER CHANGE PARAMETER NUMBER LIST)
 [Parameter Change ECHO]가 가

STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0001nnnn 1n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00000110 06 DM2000
 ADDRESS 00100000 20 Address UU
 0aaaaaaa aa Address UL
 0aaaaaaa aa Address LU
 0aaaaaaa aa Address LL
 DATA 0ddddd dd 0:press, 1:release
 EOX 11110111 F7 End of exclusive

12.3.21 (Remote Meter)

(Remote Meter) 가
 가 10 50 msec
 , 10
 [Parameter change ECHO]가
 가 (PARAMETER CHANGE PARAMETER NUMBER LIST) 가 10
 50 [Rx CH]
 가 PORT
 [Parameter Change ECHO]가 가

STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0001nnnn 1n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00000110 06 DM2000
 ADDRESS 00100001 21 Address UU
 0aaaaaaa aa Address UL
 0aaaaaaa aa Address LU
 0aaaaaaa aa Address LL
 DATA 0ddddd dd Data1 H
 0ddddd dd Data1 L
 EOX 11110111 F7 End of exclusive

DSP DECAY
 , PARAMETER CHANGE PARAMETER NUMBER LIST

12.3.22 (Remote Meter)

[Parameter change RX]가 [Rx CH] SUB STATUS
 [Parameter change ECHO]가
 (PARAMETER CHANGE PARAMETER NUMBER LIST) 가 10 50 [Rx CH]
 Address UL= 0x7F가
 ()

[Parameter Change ECHO]가 가
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0011nnnn 3n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00000110 06 DM2000
 ADDRESS 00100001 21 Address UU
 0aaaaaaa aa Address UL
 0aaaaaaa aa Address LU
 0aaaaaaa aa Address LL
 DATA 0ccccccc cc Count H
 0ccccccc Cc Count L
 EOX 11110111 F7 End of exclusive

12.3.23 (Remote Time Counter)

가 가 10 50
 , 10
 [Parameter change ECHO]가
 가 가 10 50
 [RxCH]
 가 PORT
 [Parameter Change ECHO]가 가

STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0001nnnn 1n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00000110 06 DM2000
 ADDRESS 00100001 22 Remote Time Counter
 0000tttt 0t 0:Time Code, 1:Measure, Beat, Clock
 DATA 0ddddd dd Hour / Measure H
 0ddddd dd Min / Measure L
 0ddddd dd Sec / Beat
 0ddddd dd Frame / Clock
 EOX 11110111 F7 End of exclusive

12.3.24 (Remote Meter)

[Parameter change RX]가 [Rx CH] SUB STATUS
 [Parameter change ECHO]가
 가 10 50 [Rx CH]
 0x7F 가

[Parameter Change ECHO]가 , 가

.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacturer's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	00100001	22	Remote Time Counter
	0aaaaaaa	aa	0:Transmission request, 0x7F:Transmission stop request
EOX	11110111	F7	End of exclusive

12.3.25 ((Automix))

(Automix) 가 ,

(Automix) 가10 1 .

(Automix) , 10

.DM2000 (Automix)

가 , 가 가 .

[Parameter change ECHO]가 , .

가 , (Automix)

가10 1 [Rx CH] .DM2000

(Automix) 가 , 가 가

가 PORT ,

[Parameter Change ECHO]가 , 가

.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacturer's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	00100011	23	Automix Status
	00000000	00	
DATA	0000dddd	0d	Automix Status H
	0000dddd	0d	Automix Status L
EOX	11110111	F7	End of exclusive

12.3.26 ((Automix))

[Parameter change RX]가 [Rx CH] SUB STATUS

,

[Parameter change ECHO]가 ,

가 , (Automix) 가10 1

[Rx CH] .

0x7F 가 ,

().

[Parameter Change ECHO]가 , 가

.

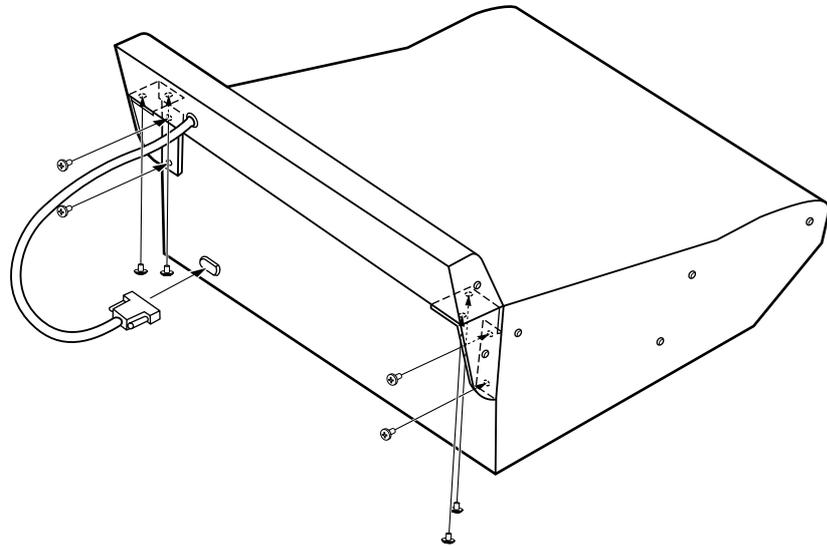
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacturer's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	00100011	23	Automix Status
	0aaaaaaa	aa	0:Transmission request, 0x7F:Transmission stop request
EOX	11110111	F7	End of exclusive

D: (Option)

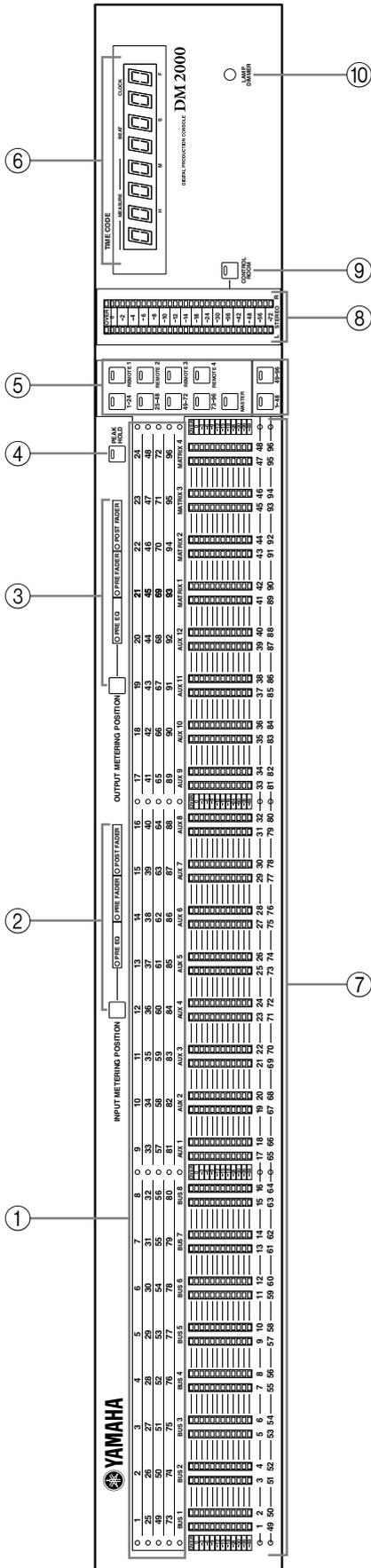
MB2000

(Peak Meter Bridge)

- | | | | |
|---|----------------------|-----------|-------|
| 1 | (Meter bridge) | (bracket) | . |
| 2 | DM2000 | 4 | , |
| 3 | (Meter bridge) | 4 | , |
| 4 | (Meter bridge cable) | DM2000 | METER |



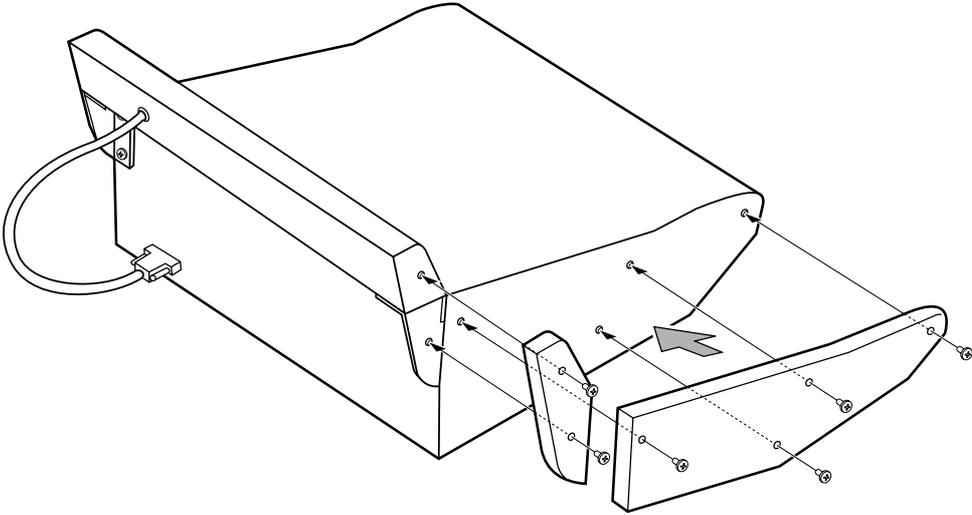
(Meter Bridge Control)



- ① **Indicator**
Input Channel 1-24, 25-48, 49-72, 73-96, Output Channel(Bus Out 1-8, Aux Send 1-12, Matrix Send 1-4) (metering) indicator
- ② **INPUT METERING POSITION Indicator**
Input Channel (metering position) (Pre-EQ), (Pre-fader) (Post-fader) Meter Input Channel
PRE EQ, PRE FADER POST FADER Indicator(indicator)
- ③ **OUTPUT METERING POSITION Indicator**
Output Channel (metering position) (Pre-EQ), (Pre-fader) (Post-fader) Meter Output Channel PRE EQ, PRE FADER POST FADER Indicator
- ④ **PEAK HOLD**
(Peak Hold) indicator가 Meter
PEAK HOLD
- ⑤ **LAYER**
indicator가 [1-24], [25-48], [49-72], [73-96] (Input Layer) [MASTER] (Master Layer) REMOTE [1-4] (Remote Layer) Meter Follow Layer preference (235), DM2000 LAYER
[1-48] Input Channel 1-48 [49-96] Input Channel 49-96, 48 (metering)
- ⑥ **TIMECODE (counter)**
(timecode position) (counter) (Pro Tools Remote Layer) (Pro Tools timecode)가
- ⑦ **Meter**
12 LED (signal level)
- ⑧ **STEREO**
32 (signal level)
- ⑨ **CONTROL ROOM**
STEREO (Control Room signal level) STEREO (Control Room level) indicator가
- ⑩ **LAMP DIMMER knob**
LA1800 (Light Gooseneck) knob

SP2000

(side panel)



DM 2000

STUDIO MANAGER

Studio Manager

Studio Manager

Apple Macintosh Apple Computer, Inc. . PowerPC International
 Business Machines Corporation . Pentium Celeron Intel Corporation
 . Microsoft Windows Microsoft Corporation .
 OMS Opcode Systems, Inc. . Adobe Acrobat Adobe Systems
 Incorporated . SmartMedia Toshiba America, Inc. .

Studio Manager , Yamaha Corporation

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Yamaha

Yamaha
 <<http://www.yamaha.co.jp/product/proaudio/homeenglish/>> Studio Manager ,
 Yamaha .

- 가 가
 SOFTWARE LICENSING AGREEMENT ().
 가
- 가
- Yamaha
 , 가

22

DM2000 Yamaha Studio Manager DM2000 (parameter)
 DM2000 Studio Manager
 DM2000 DM2000

CD-ROM

Acroread_\English	Acrobat Reader ^{1, 2}	PDF
SM_	DM2000 Studio Manager ¹	DM2000 (parameter)
Card_	Card Filer ¹	DM2000
Mididrv_	Yamaha CBX Driver	DM2000
USBdrv_	Yamaha USB MIDI Driver (98, Me)	DM2000 USB
USBdrv2k_	Yamaha USB MIDI Driver (2000, XP)	

1. (PDF) 가
2. Yamaha

(Mac)

Acroread_English	Acrobat Reader ^{1, 2}	PDF
SM_	DM2000 Studio Manager ¹	DM2000
Card_	Card Filer ¹	DM2000
OMS_	Open Music System (OMS) 2.3.8 ^{1, 2}	DM2000 OMS Setup()
	YAMAHA OMS	
USBdrv_	YAMAHA USB MIDI Driver	DM2000 USB

1. (PDF) 가
2. Yamaha

CD-ROM

PC

:

DM2000 Studio Manager

- Intel Pentium Celeron 433 MHz
- 128MB RAM
- 20MB
- 1024 x 768 , 256 VGA (1280 x 1024, 16)
- Microsoft 98SE, Me, 2000, XP 가 , XP 가
가 1024 x 768 ,
(Auto-hide option)

Card Filer()

- Intel Pentium Celeron 100 MHz
- 8 MB RAM
- 2MB
- 800 x 600 , 256 VGA
- Microsoft 95, 98, 98SE, Me, NT4.0, 2000, XP 가 , XP 가

Yamaha USB MIDI Driver

- 32 MB RAM
- 2MB
- Microsoft 98, 98SE, Me, NT4.0, 2000, XP 가 , XP 가

Yamaha CBX Driver

- Microsoft 95, 98, 98SE, Me, NT4.0, 2000, XP 가 , XP 가

(Mac)

CD-ROM

(Mac)

:

DM2000 Studio Manager

- 233MHz PowerPC 604 (: USB가 G3/300 MHz)
- 50 MB RAM(가 (Virtual memory))
- 7MB

- 1024 x 768 , 256 (1280 x 1024 , 32,000)
- Mac OS 8.6 ~ 9.2.2 (Mac OS X)
- OMS 2.3.3
OMS MIDI Setup , "Run in Background()"

: PowerBook , "Power conservation settings()"
" 가 "Allow processor cycling()"

Card Filer()

- PowerPC
- 6 MB RAM
- 800 x 600 , 256
- Mac OS 8.6 ~ 9.2.2 (Mac OS X)

Yamaha USB MIDI

- PowerPC
- 64 MB RAM(128 MB)
- 2MB
- USB
- Mac OS 8.6 ~ 9.2.2 (Mac OS X)

Acrobat Reader()

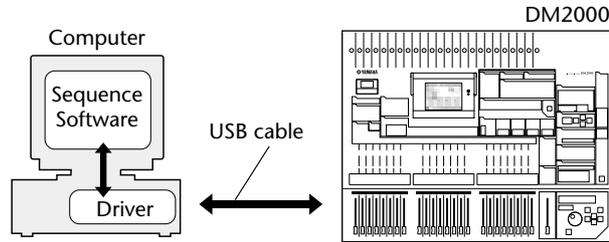
(PDF) , Acrobat Reader

: PC Acrobat Reader가 ,

- 1 "Acroread_"
가 가 가 .
- 2
가 "ar500enu.exe" .
- 3 "ar500enu.exe"
Acrobat Reader (setup dialog) 가 .
- 4
가 , C:\ Program Files() Acrobat 가 .
Acrobat Reader Reader Guide()

USB MIDI

USB DM2000 , USB MIDI
 USB Studio Manager DM2000 MIDI



98/Me ,
 2000 , 343
 XP , 344

98/Me

- 1 PC
- 2 CD-ROM CD-ROM DVD-ROM
- 3 DM2000 , USB (USB hub) USB
 DM2000 TO HOST USB
- 4 DM2000
 Add New Hardware Wizard(가)
 (Control Panel) 가(Add New Hardware)

: Me , "Automatic search for a better driver(Recommended)(
 ())"
 , "Specify the location of the driver(Advanced)(
 ())" CD-ROM (root directory)(: D:\)

98



Me



5 Next



6 "Search for the best driver for your device.(Recommended)(가 ())" 가



7 "CD-ROM drive" Next

USBdrv_ (: D:\USBdrv_\)	CD-ROM	CD-ROM
--------------------------	--------	--------

가 , "YAMAHA USB MIDI Driver"가



8 Next
가

98



Me



: 10

9 Finish
가

2000

1 PC "Administrator()" 2000
2 (My Computer), (Control Panel), (System),
(Hardware), (Driver Signing), (File Signature
Verification) , "Ignore-Install all file, regardless of file signature(
)" , OK

3 CD-ROM CD-ROM DVD-ROM

4 DM2000 , USB (USB hub) USB
DM2000 TO HOST USB

5 DM2000
Add New Hardware Wizard(가)

6 Next

7 "Search for a suitable driver for my device. (Recommended)(
())"

8 "CD-ROM drive" , (Next)

: CD-ROM . CD-ROM
"USBdrv2k_" (: D:\USBdrv2k_) .

가 "Completing the Found New Hardware Wizard(
)" 가

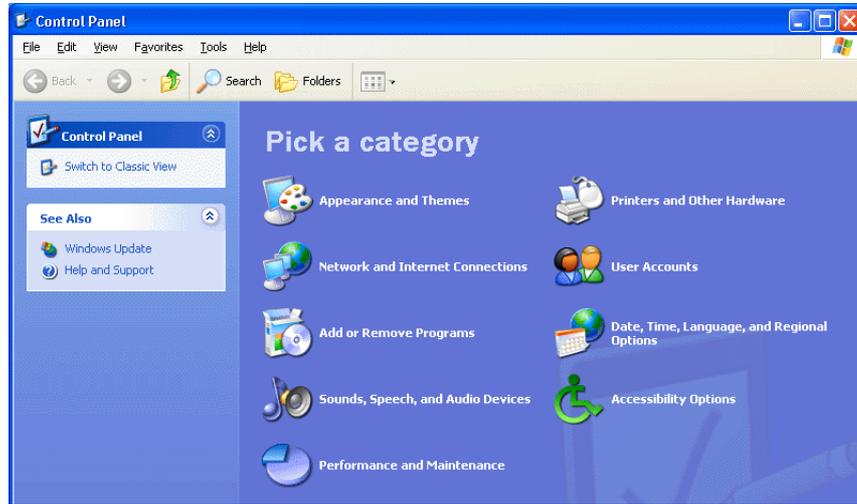
: 10

9 Finish

10
가

XP

- 1 PC
- 2 (Start), (Control Panel)



(Control Panel) , "Switch to classic view()" (Control Panel)

- 3 (System), (Hardware), (Driver Signature), (Driver Signature option) , "Ignore-Install software without asking for confirmation()" , OK

- 4 OK (System Property) , (Control Panel)

- 5 CD-ROM CD-ROM DVD-ROM
- 6 DM2000 , USB (USB hub) USB
DM2000 TO HOST USB

- 7 DM2000 Found New Hardware Wizard()

- 8 "Install software automatically(recommended)(I) (() (I))" , (Next) ()
가 "Completing the Found New Hardware Wizard()" 가

: 10

- 9 (Finish)

- 10 가

Card Filer()
(Card Filer) ,

DM2000

- 1 "Card_" 가 "Setup.exe"
- 2 "Setup.exe" YAMAHA (Card Filer setup dialog)가

- 3 C:\Program Files() YAMAHA 가 (Card Filer) (Card Filer) "Card Filer Manual.pdf"

CBX

- 1 "Mididrv_" 가 "Setup.exe"
- 2 "Setup.exe" YAMAHA CBX (Driver setup dialog)가
- 3

DM2000 Studio Manager

- 1 "SM_" 가 "Setup.exe"
- 2 "Setup.exe" DM2000 Studio Manager (setup dialog)가
- 3

(Machintosh)

Acrobat Reader() (PDF) , Acrobat Reader

- 1 "Acrobat_" 가 , , , , 가 가
- 2 가 "Reader Installer()" .
- 3 "Reader Installer()" Acrobat Reader (setup dialog) 가
- 4 가 , (Mac) (startup disk)() Acrobat 가 Acrobat Reader Reader Guide()

OMS() 2.3.8 OMS MIDI (application) (Mac)

- 1 "OMS_" () 가 "Install OMS 2.3.8"
- 2 "Install OMS 2.3.8" OMS (setup dialog)가
- 3

4 (Restart)



, OMS Applications Opcode 가 (startup disk).

5 CD-ROM "OMS_2.3_Mac.pdf" "OMS Applications(OMS)" ().

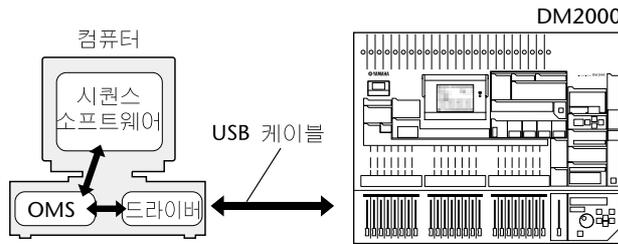
OMS "OMS_2.3_Mac.pdf"()

6 CD-ROM "OMS Setup for YAMAHA" "OMS Applications(OMS)" ().

"OMS Setup for YAMAHA" (template) Yamaha (tone generator) OMS (OMS setup file)

USB MIDI

USB DM2000 , USB MIDI Studio Manager MIDI DM2000 MIDI



OMS , USB MIDI OMS

1
2 CD-ROM CD-ROM CD-ROM

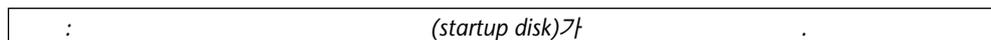
3 CD-ROM "USBdrv_"

4 "Install USB Driver(USB)" (setup dialog)가 Install USB Driver(USB)



"Install Location()"

5 , Switch Disk()



6 (Install)

"This installation requires your computer to restart after installing this software(). Click continue to automatically quit all other running applications()" 가

7 (Continue)

: , (Cancel)

가 , 가



, (Quit) 가 , "Installation was successful()

). You have installed software which requires you to restart your computer()." 가

8 (Restart)

가

- YAMAHA USB MIDI Patch - System Folder\Control Panels
- USB YAMAHA MIDI Driver- System Folder\Extensions
- YAMAHA USB MIDI OMS Driver- System Folder\OMS Folder

Card Filer()

(Card Filer) , DM2000

1 "Card_"

가 "Card Filer Installer()"

2 "Card Filer installer()"

Install Card Filer() (setup dialog) 가

3

(startup hard disk)() "Card Filer 1.0.3 for DM2000" 가

(Card Filer) "Card Filer Manual.pdf"

DM2000 Studio Manager

1 "SM_"

가 "Install Studio Manager"

2 "Install Studio Manager(Studio Manager)"

Install Studio Manager for DM2000(DM2000 Studio Manager) (setup dialog) 가

3

OMS

CD-ROM DM2000 OMS Studio Setup (setup file) USB OMS

: USB , OMS USB MIDI

1 DM2000 , USB (USB hub) USB
DM2000 TO HOST USB

2 DM2000

3 CD-ROM (Mac) CD-ROM
CD-ROM

4 CD-ROM , "OMS_" "OMS Setup for YAMAHA"
"DM2000-Modem", "DM2000-Printer", "DM2000-USB"

5 "DM2000-Modem", "DM2000-Printer", "DM2000-USB"
OMS (OMS Setup)
(setup file)

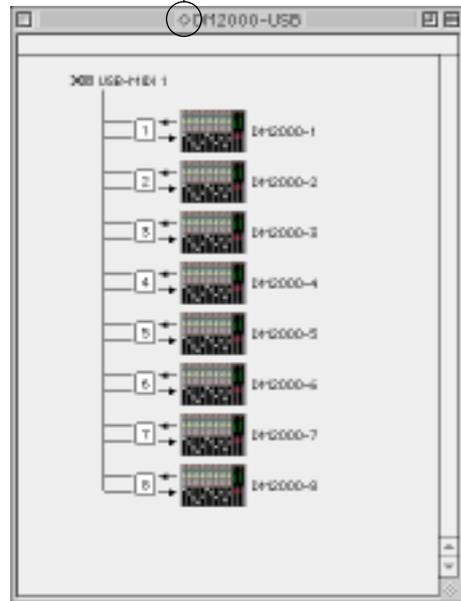
DM2000-Modem. (Mac) (modem) DM2000

DM2000-Printer. (Mac) (printer) DM2000

DM2000-USB. (Mac) USB DM2000

: DM2000 USB hub가

OMS Setup , Studio 가
Setup . DM2000-USB



: () , OMS Setup Preferences(OMS) 가 "Use Apple DMA driver when available(가 DMA)"

: " "가 Make Current ,

OMS Studio Setup

: OMS Studio Setup DM2000 MIDI
 DM2000 MIDI 가 ,
 (Studio Setup) OMS

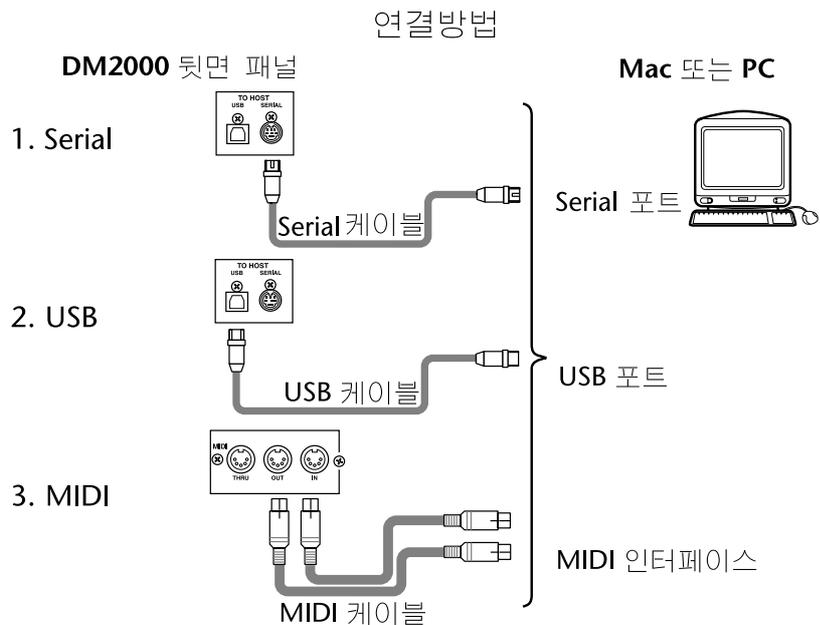
: (Mac) , OMS Studio Setup(
) (, MIDI 가 /).
 , USB DM2000 (Mac) (setup
 file)

- 1 OMS Setup "New Setup()"
- 2 OMS 가
 "Modem()" "Printer()" (Search)
- 3 OMS USB-MIDI 가
 OK
- 4 1, 2... 가
 OK
 OMS "OMS_2.3_Mac.pdf"

DM2000

DM2000 Studio Manager ID
 ID , DM2000 MIDI/TO HOST Setup
 DM2000 ,
 . PC-2 Mac .
 DM2000

: MIDI DM2000



Studio Manager

, " (Start)" , YAMAHA Studio Manager, DM2000,
 Studio Manager for DM2000 .
 (Mac) , Studio Manager "YAMAHA Studio Manager for
 DM2000"
 Studio Manager가 (Console Window)



Studio Manager

(Quit) .
 Studio Manager가 .
 가 .
 Yes() , No() ,
 Cancel() .
 (Mac) (Console) Studio Manager .

Studio Manager

Studio Manager가 DM2000 (Input & Output port),
 ID(Console Device ID) .

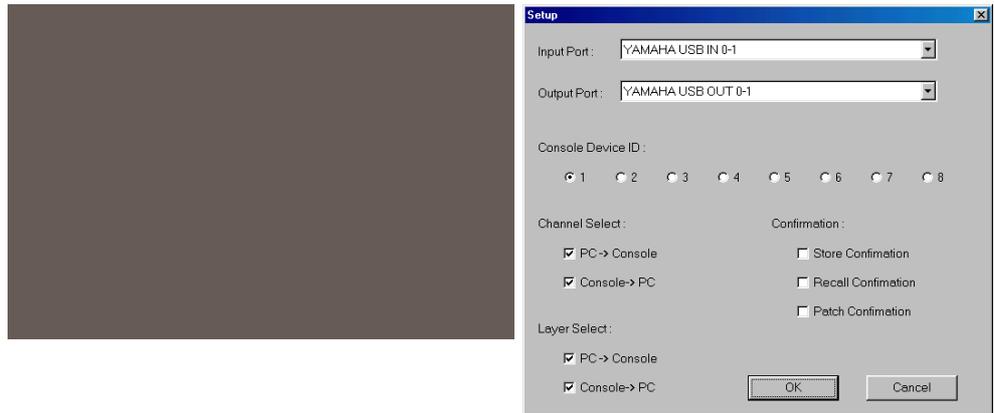
(Port)

Setup() .
 (Mac) Select OMS Ports(OMS)
 OMS MIDI Setup, OMS Studio Setup System
 setup() . OMS OMS
 (System setup dialog) OMS

(System setup dialog)

ID(Console Device ID) 8 . DM2000
 ID Studio Manager
 (control) DM2000 , DM2000
 (control) Studio Manager , DM2000
 (Input & Output port) , Studio Manager

(Mac)



Studio Manager

Studio Manager , DM2000
 , Studio Manager DM2000 (PC) DM2000
 Studio Manager (PC) (CANCEL)
 가 , (Console Window) ONLINE/
 OFFLINE Studio Manager 가



: Studio Manager DM2000 ONLINE/OFFLINE
"ONLINE" DM2000 Studio Manager

DM2000 , Studio Manager가 DM2000 ,
 가 ,
 Re-synchronize...() 가

Studio Manager .
 가 Studio Manager가
 , Studio Manager가
 가 DM2000 ,
 DM2000 (가),
 All Lib .

: DM2000 Studio Manager 1.0 가

: DM2000 Studio Manager
All Lib() Re-synchronize()

23 (Console Window)

(Console window) Studio Manager
(mixer channel)

Studio Manager

(Channel Section)

(Master Section)

(Channel Section)

(24)가

(Master Section) LAYER



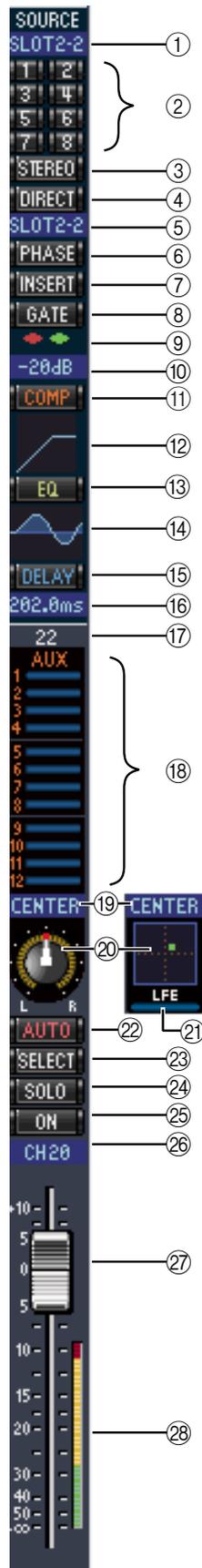
채널 부분
(Channel Section)

마스터 부분
(Master Section)

(Input Channel)

(Console Window)

(Input Channel)



- ① **SOURCE**
(Input source)
(parameter)
- ② **Bus Out (routing)**
(Input Channel)
(Bus Out) (routing)
- ③ **STEREO**
Input Channel (Stereo Out)
(routing)
- ④ **DIRECT**
(Direct Out) Input Channel
(routing)
- ⑤ **Direct out**
(Direct Out)
(parameter)
- ⑥ **PHASE**
(signal phase)
- ⑦ **INSERT**
Input Channel (Insert)
- ⑧ **GATE**
Input Channel (Gate)
- ⑨ **Gate indicator**
(Gate) indicator () ()
- ⑩ **Gate Threshold Display**
(Gate) (Threshold)
- ⑪ **COMP**
Input Channel (Compressor)
- ⑫ **Compressor Curve Display**
(Compressor)
- ⑬ **EQ**
Input Channel 4 (parametric)
(EQ)
- ⑭ **EQ Curve Display**
- ⑮ **DELAY**
Input Channel (Delay)



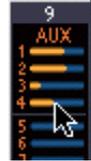
⑩ **Delay Time**

(Delay)

⑪

⑫ **AUX**

12 (Aux Send) control (Aux Send)
 (Aux Send) (Aux Send)
 (Aux Send) Input Channel
 (Aux Send control) (Pre-fader) (Post-fader) (Aux Send)
 Send) 360



(Aux Send)	(Input Channel)
(Pre-fader)	
(Pre-fader)	
(Post-fader)	
(Post-fader)	

⑬ **Pan/Aux Send**

(Stereo) (Surround Pan)
 (Aux Send) (Aux Send) dB

⑭ **Pan Control**

Input Channel (Stereo) (Surround Pan)
 (controller) (Master Section) PAN CONTROL
 "STEREO" , Pan control Rotary control , "SURR"
 (Surround Pan)

⑮ **LFE Control**

LFE control
 (Master Section) PAN CONTROL "SURR"
 LFE



⑯ **AUTO**

DM2000 Studio Manager 1.0

⑰ **SELECT**

Input Channel

⑱ **SOLO**

Input Channel solo , solo

⑲ **ON**

Input Channel

⑳ **Short Channel**

가

㉑ **Channel Fader**

Input Channel control

㉒ **Channel Meter**

Input Channel

(Master Section)

(Master Section)

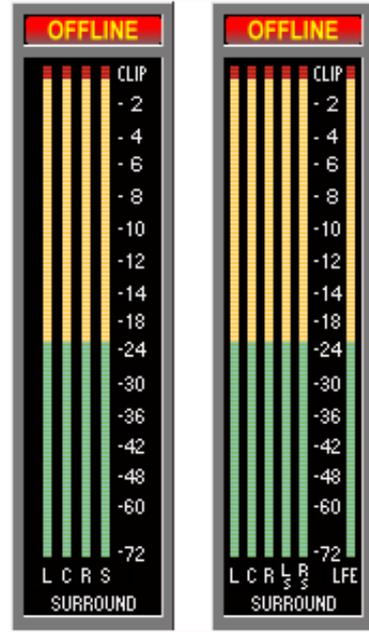
(Console window)



- ① **ONLINE/OFFLINE status indicator**
Studio Manager가
Manager 14 "Studio"
- ② **Meter()**
PAN CONTROL "STEREO"
(Stereo Out) (Output level),
PAN CONTROL "SURR"
(Bus Out)
(Surround) 3-1 5.1 가
356
- ③ **LAYER**
(Layer)
- ④ **PAN CONTROL**
"STEREO" "SURR"
"STEREO" "SURR"
Rotary control , "SURR" Input Channel control
- ⑤ **AUTO**
DM2000 Studio Manager 1.0
- ⑥ **SELECT**
(Stereo Out)
(Remote Layer)
(Stereo Out)
- ⑦ **ON**
(Stereo Out)
(Stereo Out)
- ⑧ **Channel Fader**
(Stereo Out)
controller

(Master Section Meter)

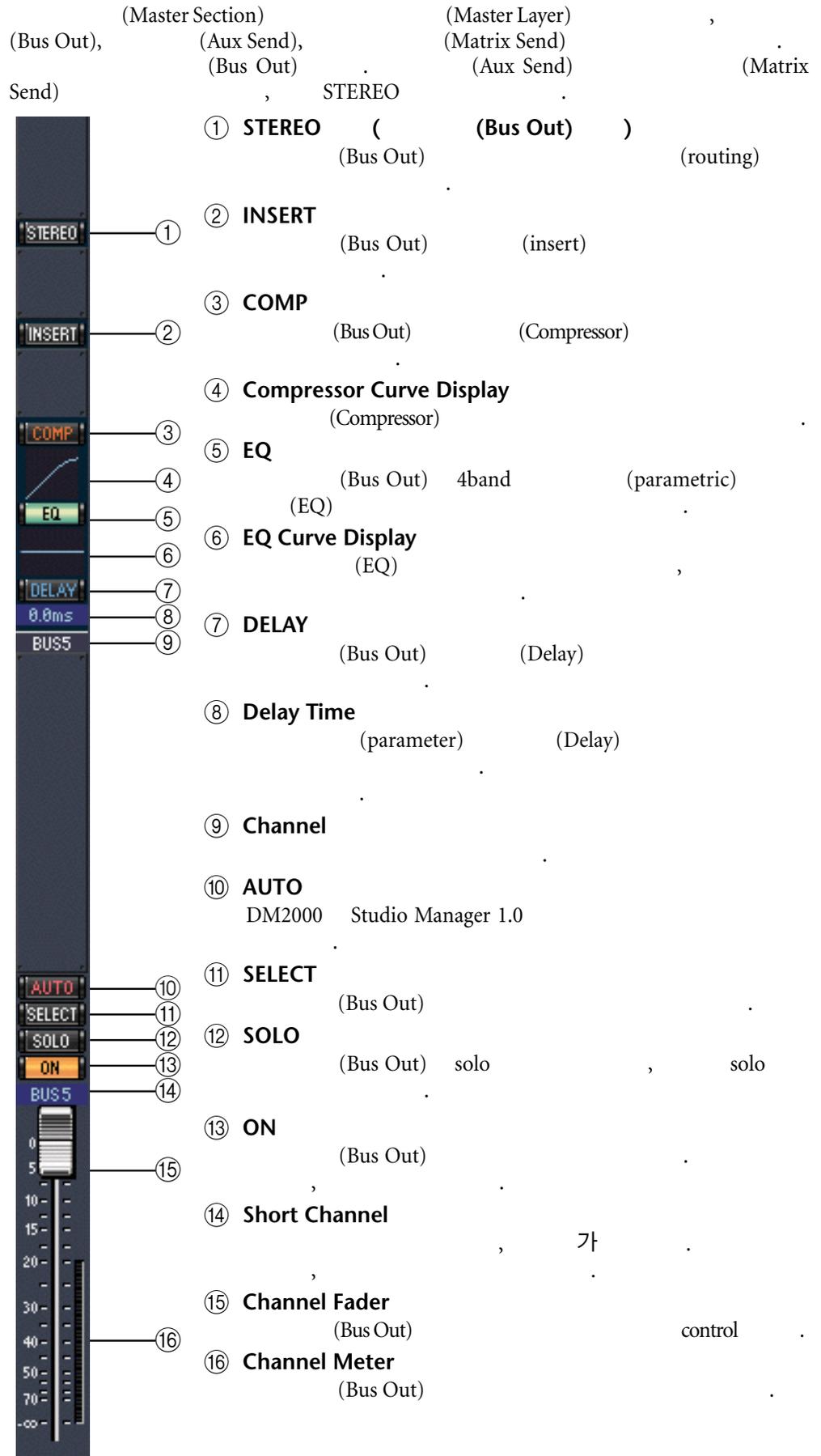
PAN CONTROL "SURR" ,
(Bus Out) 3-1 5.1
(Surround)
3-1 (Surround) , (Bus
Out) 1~4 , , ,
5.1 (Surround) , (Bus
Out) 1~6 , , ,
(Effect)



3-1

5.1

(Master Layer Channel)



(Remote Layer Channel)

(Master Section)
(Remote Channel)

(Remote Layer)



① Channel

② SELECT

(Remote Channel)

③ ON

(Remote Channel)

④ Short Channel

가

⑤ Channel Fader

(Remote Channel)

control

24 (Selected Channel Window)

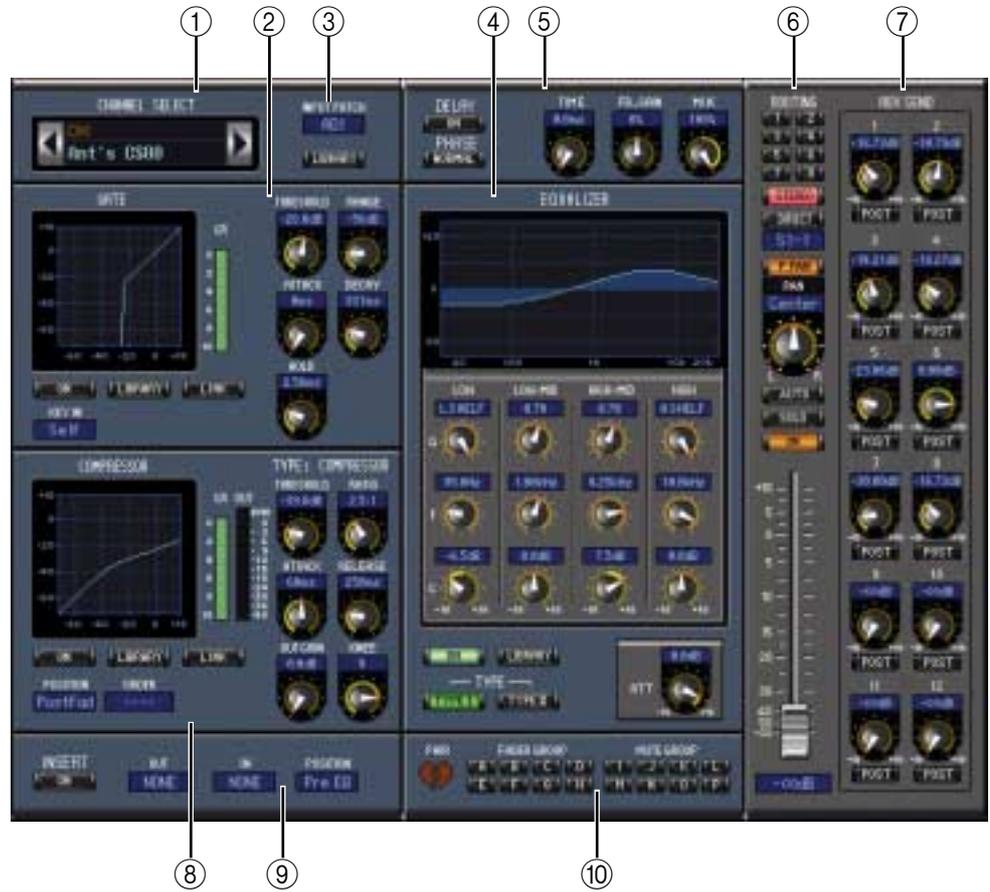
(Selected Channel Window) , Selected Channel()

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- (Bus Out). 361
- (Aux Send). 362
- (Stereo Out). 364
- (Matrix Send). 365
- (Remote Channel). 366

(Input Channel)

Input Channel



① CHANNEL SELECT
ID

② GATE

Studio Manager 1.0 , . LIBRARY DM2000

Input Channel (Gate) control 가
 . Rotary control (Threshold) , (Range) , (Attack),
 (Decay) (Gate hold) , (Gate) (Gate
 curve) . GR (Gate) (Gain)
 . ON (Gate) , LINK

- (pairing) DM2000 (Pair) ,
 (pairing) (pairing) LINK . KEY
 IN (Gate) (trigger source)
 LIBRARY DM2000 Studio Manager 1.0
- ③ **INPUT PATCH (parameter)**
 (Input source) (Input)
- ④ **EQUALIZER**
 Input Channel 4band (parametric) (EQ)
 control 가 Rotary control ,
 Q, (Pre-EQ attenuation)
 .ON (EQ curve)
 , TYPE
 . LIBRARY DM2000 Studio Manager 1.0
- ⑤ **DELAY/PHASE**
 Input Channel (Delay) control
 Rotary control (Delay time), (Feedback gain),
 (Feedback mix) . ON (Delay)
 , PHASE
- ⑥ **ROUTING/PAN/LEVEL**
 Input Channel (Routing), (Pan), (Level)
 control . ROUTING (1~8)
 (routing) . STEREO
 (Stereo Out) (routing) . DIRECT (Direct
 Out) (routing) (parameter)
 (Direct Out) . F.PAN (Bus Out)
 (Follow Pan) , PAN control (Stereo Out)
 (Bus Out) . SOLO solo
 , ON (Channel Fader)
 . AUTO DM2000 Studio Manager 1.0
- ⑦ **AUX SEND**
 Input Channel (Aux Send) control Rotary 
 , (Aux Send) (pairing) . Rotary
 control (Aux Send)
 (Aux Send) (Aux Send) , Rotary control
 (Aux Send) (Aux Send) (Pre-fader)
 (Post-fader)
- ⑧ **COMPRESSOR**
 Input Channel (compressor) control
 가 . Rotary control (compressor) (Threshold) ,
 (Ratio), (Attack) (Release) , (Output gain), (knee)
 . (Compressor curve) . GR
 (compressor) (Gain) , OUT
 . ON (compressor) , LINK
 (pairing) DM2000 (Pair) ,
 (compressor)
 (pairing) , (pairing) LINK
 POSITION Input Channel (compressor) (compressor)
 가 , ORDER (compressor) (Insert)
 (compressor) (Insert)
 . LIBRARY DM2000 Studio Manager 1.0

⑨ INSERT

Input Channel (Insert) (parameter)가
 . INSERT (Insert) . OUT IN
 Insert In Insert Out , POSITION
 (signal path) (Insert position)

⑩ FADER GROUP/MUTE GROUP

Input Channel (Fader Group)
 (Mute Group) (pairing)



(Bus Out)



① CHANNEL SELECT
 ID

. LIBRARY DM2000
 Studio Manager 1.0

② EQUALIZER

(EQ) control (Bus Out) 4 (parameteric)
 , Insert Channel (EQ)
 360

③ DELAY

(Bus Out) (Delay) control
 . Rotary control (Delay time) , ON
 (Delay)

④ Bus Out Routing/Pan/Level

(Bus Out) (Routing), (Pan) (Level)
 control . TO STEREO Bus to Stereo routing ,
 Rotary control Bus to Stereo level (Pan position) . SOLO
 (Bus Out) solo , ON (Bus Out)
 (Channel Fader) (Bus Out level)
 . AUTO DM2000 Studio Manager 1.0 .

⑤ COMPRESSOR

(Bus Out) (compressor) control
 , Input Channel (Compressor) .
 360 .

⑥ INSERT

(parameter)가 . INSERT (Bus Out) (Insert)
 Insert Out Insert In , POSITION . OUT IN
 (signal path) (Insert position) .

⑦ FADER GROUP/MUTE GROUP

(Bus Out) (Fader Group)
 (Mute Group)
 (pairing) .

(Aux Send)



① CHANNEL SELECT

ID

. LIBRARY DM2000
 Studio Manager 1.0 .

② **EQUALIZER**

control (Aux Send) 4 (EQ)
, Input Channel (Equalizer)
360

③ **DELAY**

. Rotary control (Aux Send) (Delay) control
(Delay) (Delay time) , ON

④ **Aux Send Level**

(Channel Fader)가 (Aux Send) ON , SOLO ,
. AUTO DM2000 Studio Manager 1.0

⑤ **COMPRESSOR**

, Input Channel (Aux Send) control
(Compressor) . 360

⑥ **INSERT**

(parameter)가 . INSERT (Aux Send) (Insert)
Insert Out Insert In . OUT IN
(signal path) (Insert position) , POSITION

⑦ **FADER GROUP/MUTE GROUP**

(Mute Group) (Aux Send) (Fader Group)

(Stereo Out)

Layer) (Stereo Out) (Remote



① CHANNEL SELECT
ID

② EQUALIZER

control

(Stereo Out) 4

, Input Channel (parametric)

. LIBRARY

(EQ) (Equalizer)

③ DELAY

. Rotary control (Delay)

(Stereo Out) (Delay time)

(Delay) control , ON

④ Stereo Out Pan/Level

Manager 1.0

(Stereo Out) (Channel Fader)가

(Pan control), Channel ON(. AUTO DM2000 Studio

⑤ COMPRESSOR

(Compressor)

, LINK

(Stereo Out)

(compressor) control Input Channel

360

⑥ INSERT

. INSERT

(Stereo Out) (insert)

(Insert) .OUT IN (parameter)가

- Insert Out (signal path) Insert In (Insert position) , POSITION
- ⑦ **FADER GROUP/MUTE GROUP**
 (Mute Group) (Stereo Out) (Fader Group)

(Matrix Send)

(Matrix Send)



- ① **AUX**
 control (Aux Send) (Aux Send) (Aux Send) (Matrix Send) (Matrix Send) (Aux Send)
- ② **BUS**
 control (Bus Out) (Bus Out) (Bus Out) (Matrix Send) (Matrix Send) (Matrix Send) (pairing) (Bus)
- ③ **STEREO**
 Send (Stereo Out) control (Stereo Out) (Stereo Out) (Matrix Send) (Matrix Send)
- ④ **CHANNEL SELECT**
 ID , LIBRARY DM2000
- ⑤ **EQUALIZER**
 (EQ) control (Matrix Send) 4band (parametric) (Equalizer)
 360 , Input Channel

⑥ DELAY

control ON . Rotary control (Delay) (Matrix Send) (Delay time) (Delay)

⑦ Matrix Send Level

1.0 (Channel Fader)가 (Matrix Send) . AUTO ON , SOLO DM2000 Studio Manager

⑧ COMPRESSOR

control Input Channel (Compressor) (Matrix Send) , LINK (compressor) 360

⑨ INSERT

가 (parameter) . INSERT Insert Out Insert In (signal path) (Matrix Send) (Insert) . OUT IN , POSITION (Insert position)

⑩ Fader Group/Mute Group

(Mute Group) (Matrix Send) (Fader Group)

(Remote Channel)

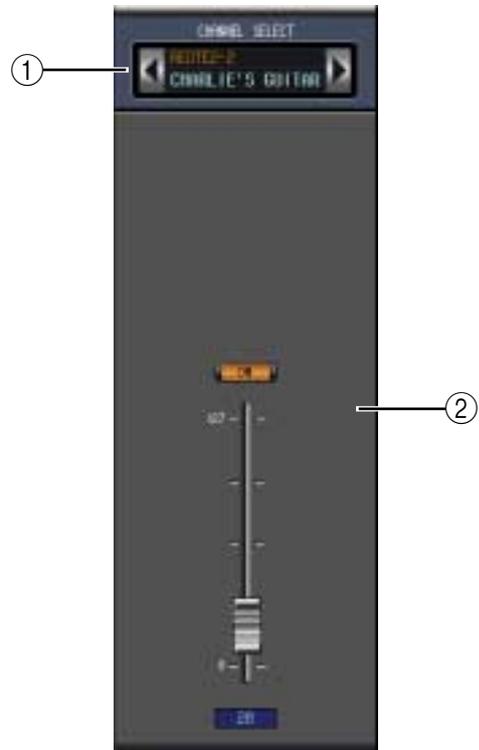
(Remote Channel)

① CHANNEL SELECT

ID

② Remote Channel Layer

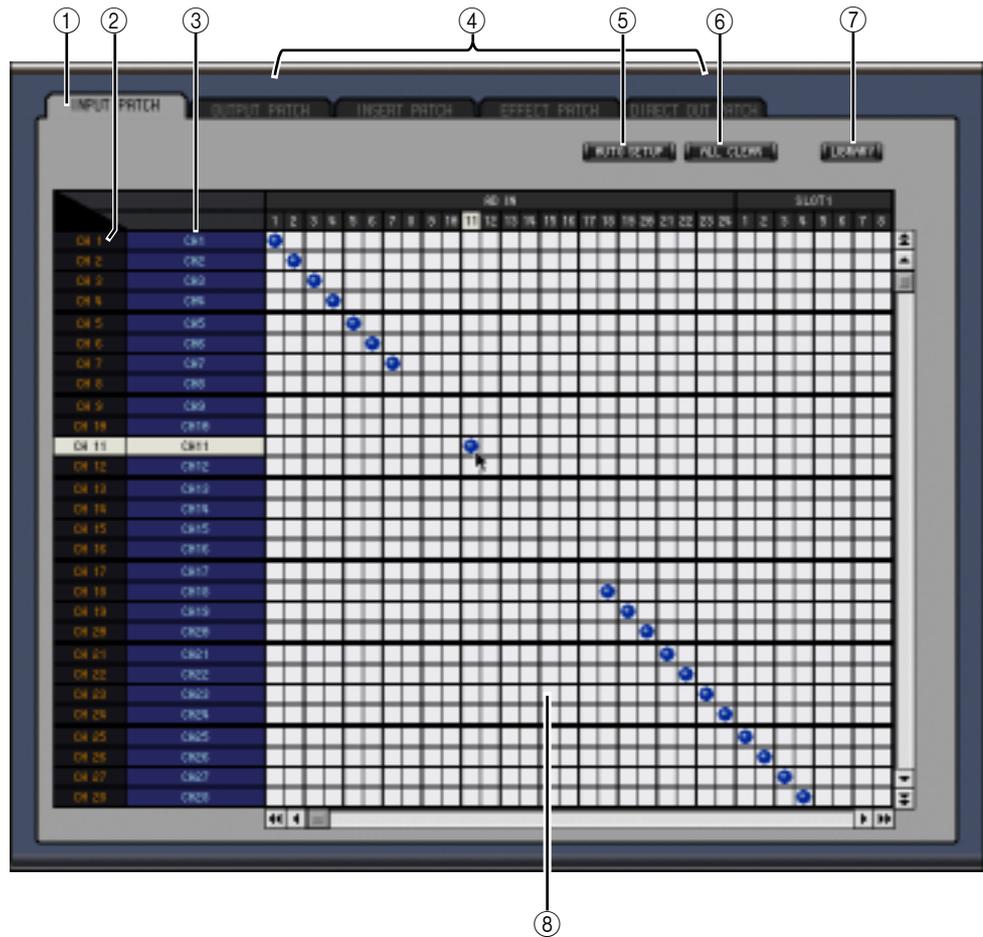
(Remote Channel) Channel ON (Channel Fader)가



25 (Patch Editor Window)

(Patch Editor Window) , Patch Editor(
(Output), (Insert In), (Direct Out) (Input), (Effect)

(Input Patch)



① **Input Patch**

Input Patch

② **Channel ID**

ID

③ **Long Channel**

④

⑤ **AUTO SETUP**

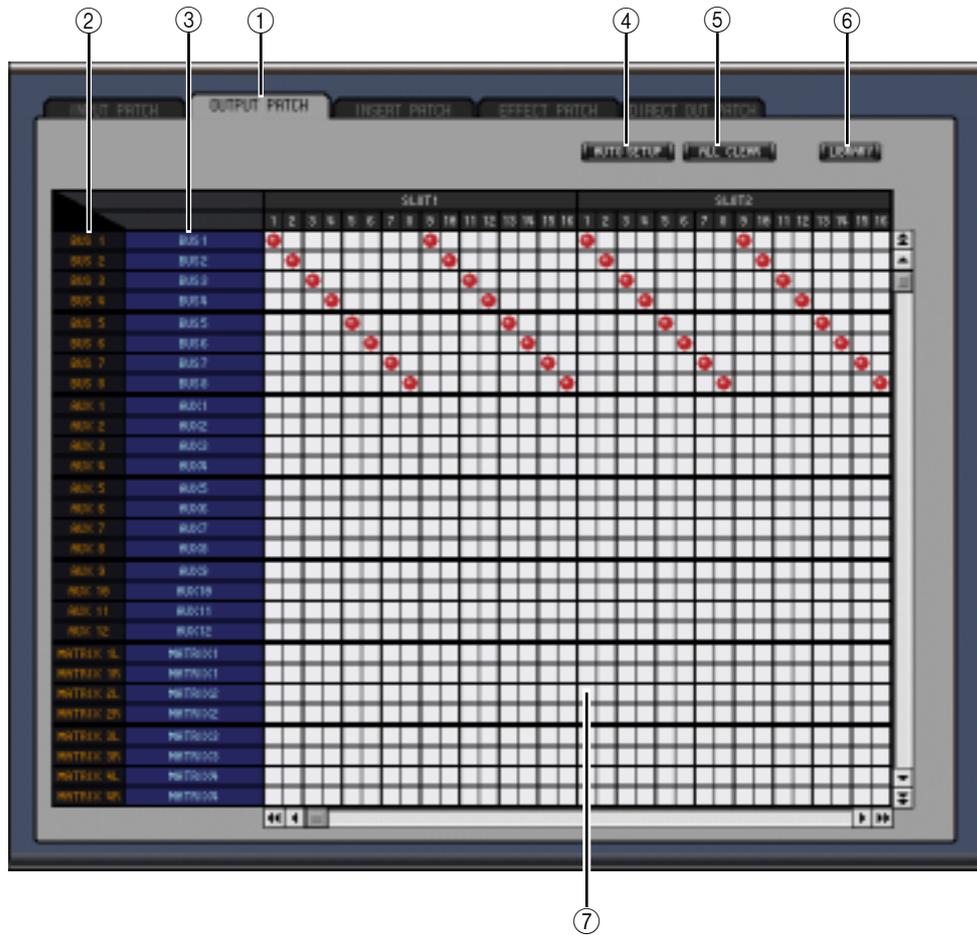
Input Channel

(Input port)

⑥ **ALL CLEAR**

- ⑦ **LIBRARY**
DM2000 Studio Manager 1.0
- ⑧ **Patch Grid**
Input Channel (Input port) (grid)
(Input port) Input Channel

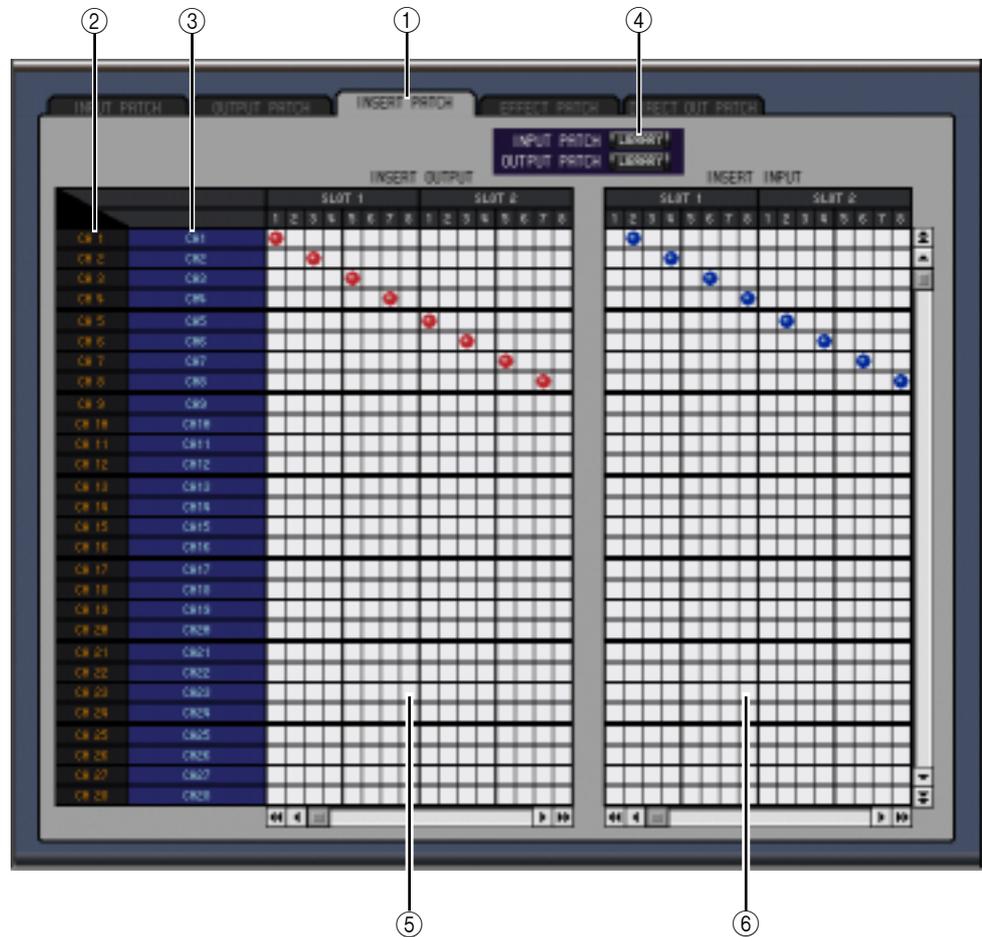
(Output Patch)



- ① **Output Patch**
(Output Patch)
- ② **Channel ID**
ID
- ③ **Long Channel**
- ④ **AUTO SETUP**
(Output port) (Output signal)
- ⑤ **ALL CLEAR**
- ⑥ **LIBRARY**
DM2000 Studio Manager 1.0

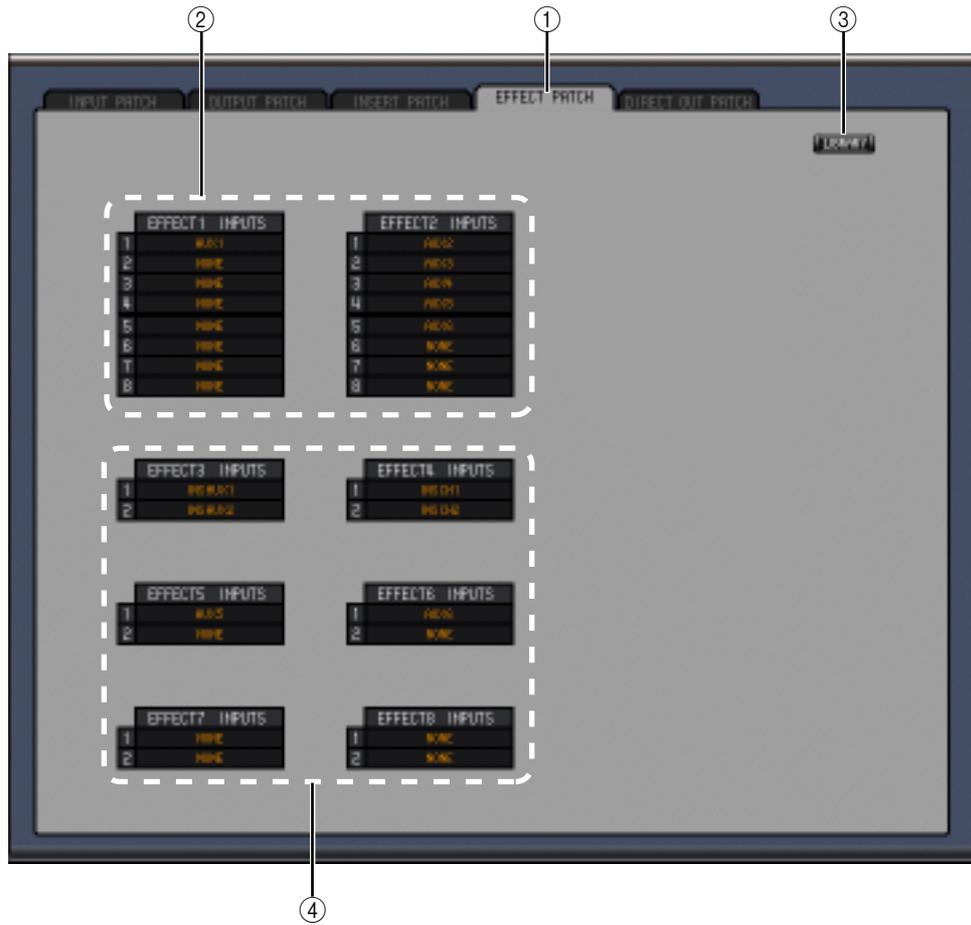
- ⑦ Patch Grid (Output port) (Output signal) (grid)

(Insert Patch)



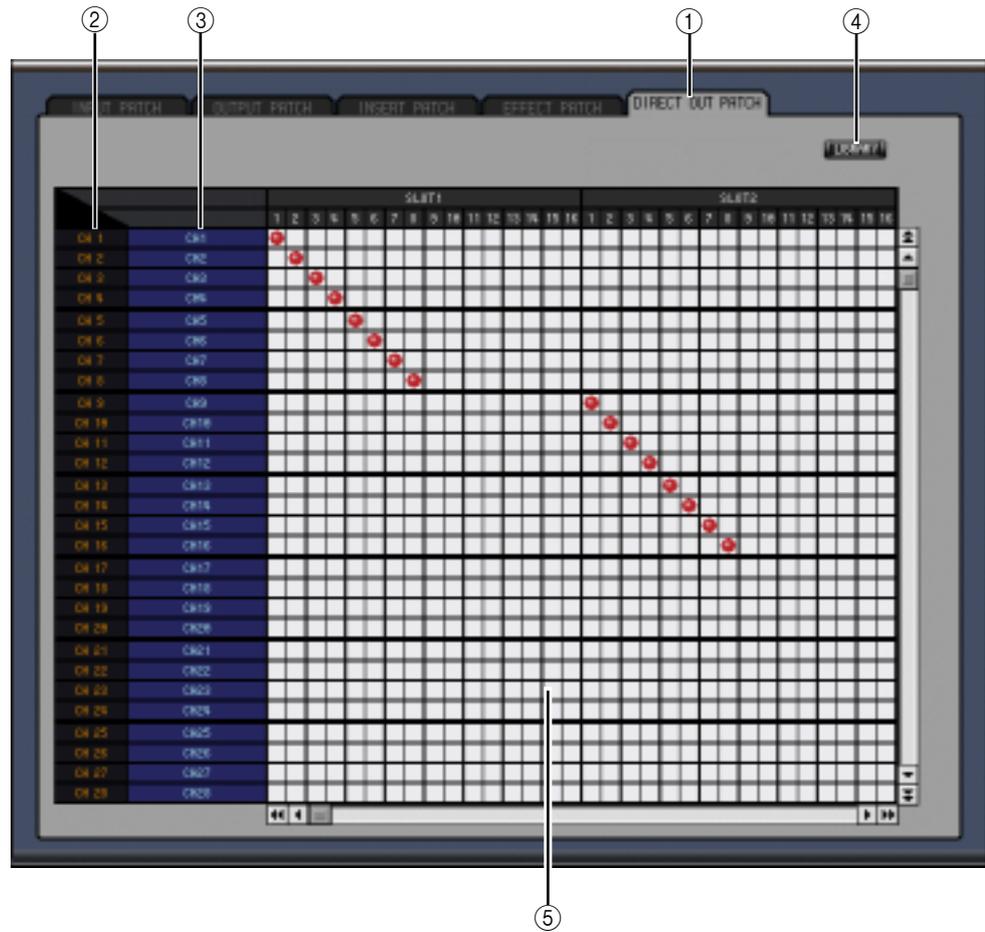
- ① Insert Patch (Insert Patch)
- ② Channel ID ID
- ③ Long Channel
- ④ LIBRARY DM2000 Studio Manager 1.0
- ⑤ Insert Out Patch Grid Input Channel, Bus Out, Aux Send, Matrix Send Stereo Out Insert Out (Output port) (grid)
- ⑥ Insert In Patch Grid Input port Input Channel, Bus Out, Aux Send, Matrix Send Stereo Out Insert In (grid)

(Effect Patch)



- ① **Effect Patch**
(Effect Patch)
- ② **Effect Processor 1 2**
(Internal Effect processor) 1 2
(parameter)
- ③ **Library**
DM2000 Studio Manager 1.0
- ④ **Effect Processor 3-8**
(Internal Effect processor) 3-8
(parameter)

(Direct Out Patch)



① **Direct Out Patch**

(Direct Out Patch)

② **Channel ID**

ID

③ **Long Channel**

④ **LIBRARY**

DM2000 Studio Manager 1.0

⑤ **Patch Grid**

(Direct Out)

(Output port)

(grid)

26 (Surround Editor Window)

Editor((Surround Editor Window) , Surround Input Channel) control



① Channel Select

Input Channel ID (Select Channel Window) (Channel Select) 359

② Pan Graph

③ Surround Pan Position Spot

(spot) (Surround pan) controller

④ SURROUND MODE

"STEREO", "3-1", "5.1" (Surround)

⑤ Surround Pan Position

/ / / (Surround pan)

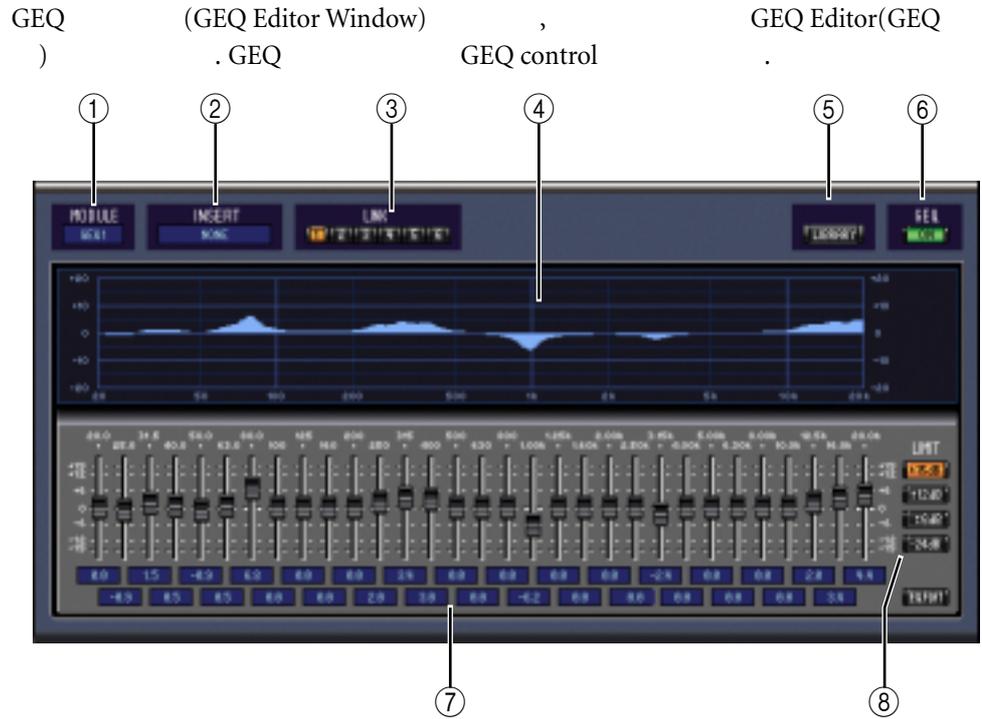
⑥ DIV control

Rotary control

⑦ LFE control

Input Channel LFE Rotary control

27 GEQ (GEQ Editor Window)



- ① **MODULE** (parameter)
GEQ
- ② **INSERT** (parameter)
GEQ (Insert position)
- ③ **LINK**
GEQ . GEQ
- ④ **GEQ**
- ⑤ **LIBRARY**
Studio Manager 1.0
- ⑥ **GEQ ON**
GEQ () .GEQ
- ⑦ **GEQ control**
GEQ control가
EQ FLAT control
- ⑧ **LIMIT**
GEQ control

28 Window)

(Timecode Counter

Counter((Timecode Counter Window) , Timecode
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((measure), (beat), (clock)) (, , ,
) .



29

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Studio Manager (keyboard shortcut)

(Shortcut)		
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Ctrl+O	Command-O	(Session)
Ctrl+S	Command-S	가 (Session)
Ctrl+W	Command-W	(Console Window) Studio Manager
Ctrl+Alt+W	Command-option-W	(Console Window) Studio Manager
Ctrl+1	Command-1	(Select Channel Window)
Ctrl+2	Command-2	Studio Manager 1.0
Ctrl+3	Command-3	(Patch Editor Window)
Ctrl+4	Command-4	(Surround Editor Window)
Ctrl+5	Command-5	(Timecode Counter Window)
Ctrl+6	Command-6	Studio Manager 1.0
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MIDI

...			
	1 - 16 1 - 16	1 - 16 1 - 16	
	x x *****	OMNI /OMNI x x	
:	x *****	0 - 127 x	
	x x	o o	(Effect Control)
	x x	x x	
(Pitch Bend)	x	x	
0-95, 102-119	o	o	(Assign) 가
: (True)	0 - 127 *****	0 - 127 0-99	(Assign) 가
	o	o	*1
: : :	x x x	o x x	(Automix)
: :	x x	o o	(Automix) (Effect Control)
: ON/OFF : OFF : :	x x x x	x x o o	
(Aux)			
	MTC 가 .(MTC IN & MIDI IN) *1: Bulk Dump/Request, Parameter Change/Request, MMC MIDI 가 .		

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

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

o :
x :



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