

M-400 MIDI Implementation

Version: 1.01
Date: Jul. 7, 2008

1. TRANSMITTED DATA AND RECOGNIZED RECEIVE DATA

■ Channel Voice Message

● Control Change

If the RECEIVE item "FADER, MUTE Change (CC)" (SYSTEM > REMOTE > MIDI or USB MIDI) is selected, the M-400 will receive control change message, and will control channel fader or mute switch.

If the SEND item "FADER, MUTE Change (CC)" (SYSTEM > REMOTE > MIDI or USB MIDI) is selected, the M-400 will transmit control change message when a channel fader or a mute switch is operated.

Status	Second	Third
BnH	mmH	llH

n = MIDI Channel No: 0H, 1H, EH (see below)
mm = Controller No: 00H - 7FH (see below)
ll = Controller Value: 00H - 7FH (*1)

n	mm		n	mm	
0H	01H	CH1 FADER	0H	40H	CH1 MUTE
0H	02H	CH2 FADER	0H	41H	CH2 MUTE
0H	03H	CH3 FADER	0H	42H	CH3 MUTE
0H	04H	CH4 FADER	0H	43H	CH4 MUTE
0H	05H	CH5 FADER	0H	44H	CH5 MUTE
0H	06H	CH6 FADER	0H	45H	CH6 MUTE
0H	07H	CH7 FADER	0H	46H	CH7 MUTE
0H	08H	CH8 FADER	0H	47H	CH8 MUTE
0H	09H	CH9 FADER	0H	48H	CH9 MUTE
0H	0AH	CH10 FADER	0H	49H	CH10 MUTE
0H	0BH	CH11 FADER	0H	4AH	CH11 MUTE
0H	0CH	CH12 FADER	0H	4BH	CH12 MUTE
0H	0DH	CH13 FADER	0H	4CH	CH13 MUTE
0H	0EH	CH14 FADER	0H	4DH	CH14 MUTE
0H	0FH	CH15 FADER	0H	4EH	CH15 MUTE
0H	10H	CH16 FADER	0H	4FH	CH16 MUTE
0H	11H	CH17 FADER	0H	50H	CH17 MUTE
0H	12H	CH18 FADER	0H	51H	CH18 MUTE
0H	13H	CH19 FADER	0H	52H	CH19 MUTE
0H	14H	CH20 FADER	0H	53H	CH20 MUTE
0H	15H	CH21 FADER	0H	54H	CH21 MUTE
0H	16H	CH22 FADER	0H	55H	CH22 MUTE
0H	17H	CH23 FADER	0H	56H	CH23 MUTE
0H	18H	CH24 FADER	0H	57H	CH24 MUTE
1H	01H	CH25 FADER	1H	40H	CH25 MUTE
1H	02H	CH26 FADER	1H	41H	CH26 MUTE
1H	03H	CH27 FADER	1H	42H	CH27 MUTE
1H	04H	CH28 FADER	1H	43H	CH28 MUTE
1H	05H	CH29 FADER	1H	44H	CH29 MUTE
1H	06H	CH30 FADER	1H	45H	CH30 MUTE
1H	07H	CH31 FADER	1H	46H	CH31 MUTE
1H	08H	CH32 FADER	1H	47H	CH32 MUTE
1H	09H	CH33 FADER	1H	48H	CH33 MUTE
1H	0AH	CH34 FADER	1H	49H	CH34 MUTE
1H	0BH	CH35 FADER	1H	4AH	CH35 MUTE
1H	0CH	CH36 FADER	1H	4BH	CH36 MUTE
1H	0DH	CH37 FADER	1H	4CH	CH37 MUTE
1H	0EH	CH38 FADER	1H	4DH	CH38 MUTE
1H	0FH	CH39 FADER	1H	4EH	CH39 MUTE
1H	10H	CH40 FADER	1H	4FH	CH40 MUTE
1H	11H	CH41 FADER	1H	50H	CH41 MUTE
1H	12H	CH42 FADER	1H	51H	CH42 MUTE
1H	13H	CH43 FADER	1H	52H	CH43 MUTE
1H	14H	CH44 FADER	1H	53H	CH44 MUTE
1H	15H	CH45 FADER	1H	54H	CH45 MUTE
1H	16H	CH46 FADER	1H	55H	CH46 MUTE
1H	17H	CH47 FADER	1H	56H	CH47 MUTE
1H	18H	CH48 FADER	1H	57H	CH48 MUTE
EH	01H	AUX1 FADER	EH	40H	AUX1 MUTE
EH	02H	AUX2 FADER	EH	41H	AUX2 MUTE
EH	03H	AUX3 FADER	EH	42H	AUX3 MUTE
EH	04H	AUX4 FADER	EH	43H	AUX4 MUTE
EH	05H	AUX5 FADER	EH	44H	AUX5 MUTE
EH	06H	AUX6 FADER	EH	45H	AUX6 MUTE
EH	07H	AUX7 FADER	EH	46H	AUX7 MUTE
EH	08H	AUX8 FADER	EH	47H	AUX8 MUTE
EH	09H	AUX9 FADER	EH	48H	AUX9 MUTE
EH	0AH	AUX10 FADER	EH	49H	AUX10 MUTE
EH	0BH	AUX11 FADER	EH	4AH	AUX11 MUTE
EH	0CH	AUX12 FADER	EH	4BH	AUX12 MUTE
EH	0DH	AUX13 FADER	EH	4CH	AUX13 MUTE
EH	0EH	AUX14 FADER	EH	4DH	AUX14 MUTE
EH	0FH	AUX15 FADER	EH	4EH	AUX15 MUTE
EH	10H	AUX16 FADER	EH	4FH	AUX16 MUTE
FH	01H	MAIN FADER	FH	40H	MAIN MUTE

(*1) 00H = OFF, 01H = ON for mute.

Value and fader level corresponds as follows.

Fader Level Table

Value	Lev (dB)	Value	Lev (dB)	Value	Lev (dB)	Data	Lev (dB)
0	- Inf	32	-33.1	64	-11.3	96	- 0.3
1	-80.0	33	-32.3	65	-10.7	97	0.0
2	-76.7	34	-31.5	66	-10.3	98	0.3
3	-73.3	35	-30.8	67	-10.0	99	0.7
4	-70.0	36	-30.0	68	- 9.7	100	1.0
5	-66.7	37	-29.3	69	- 9.3	101	1.3
6	-63.3	38	-28.7	70	- 9.0	102	1.7
7	-60.0	39	-28.0	71	- 8.7	103	2.0
8	-58.6	40	-27.3	72	- 8.3	104	2.3
9	-57.1	41	-26.7	73	- 8.0	105	2.7
10	-55.7	42	-26.0	74	- 7.7	106	3.0
11	-54.3	43	-25.3	75	- 7.3	107	3.3
12	-52.9	44	-24.7	76	- 7.0	108	3.7
13	-51.4	45	-24.0	77	- 6.7	109	4.0
14	-50.0	46	-23.3	78	- 6.3	110	4.3
15	-48.9	47	-22.7	79	- 6.0	111	4.7
16	-47.8	48	-22.0	80	- 5.7	112	5.0
17	-46.7	49	-21.3	81	- 5.3	113	5.3
18	-45.6	50	-20.7	82	- 5.0	114	5.7
19	-44.4	51	-20.0	83	- 4.7	115	6.0
20	-43.3	52	-19.3	84	- 4.3	116	6.3
21	-42.2	53	-18.7	85	- 4.0	117	6.7
22	-41.1	54	-18.0	86	- 3.7	118	7.0
23	-40.0	55	-17.3	87	- 3.3	119	7.3
24	-39.2	56	-16.7	88	- 3.0	120	7.7
25	-38.5	57	-16.0	89	- 2.7	121	8.0
26	-37.7	58	-15.3	90	- 2.3	122	8.3
27	-36.9	59	-14.7	91	- 2.0	123	8.7
28	-36.2	60	-14.0	92	- 1.7	124	9.0
29	-35.4	61	-13.3	93	- 1.3	125	9.3
30	-34.6	62	-12.7	94	- 1.0	126	9.7
31	-33.8	63	-12.0	95	- 0.7	127	10.0

● Program Change

If the RECEIVE item "SCENE Change (PC)" (SYSTEM > REMOTE > MIDI or USB MIDI) is selected, the M-400 will receive program change message, and will recall the corresponding scene.

If the SEND item "SCENE Change (PC)" (SYSTEM > REMOTE > MIDI or USB MIDI) is selected, the M-400 will transmit program change message when a scene is recalled.

Status	Second
CnH	ppH

n = MIDI Channel No: 0H - 2H (ch.1 - ch.3)
pp = Program No: 00H - 7FH (0 - 127)

Program number and scene corresponds as follows.

n	mm	SCENE NUMBER
0H	00H - 7FH (0 - 127)	000 - 127
1H	00H - 7FH (0 - 127)	128 - 255
2H	00H - 2BH (0 - 43)	256 - 299

M-400 MIDI Implementation

■ System Exclusive Message

Status	Data Byte	Status
F0H	iiH,ddH, ...,eeH	F7H

Byte	Description
F0H	Status of System Exclusive Message
iiH	Manufacturer ID 41H Roland's Manufacturer ID
7EH	Universal Non Real-time Message
7FH	Universal Real-time Message
ddH	Data: 00H - 7FH (0-127)
:	:
eeH	Data
F7H	EOX (End of System Exclusive message)

The M-400 can transfer and receive the internal parameters information using system exclusive messages.

The M-400 can transmit and receive Universal System Exclusive messages, Data Request (RQ1) and Data set (DT1) as the System Exclusive Message.

○ About Model ID

The Model ID of the M-400 is 00H, 00H, 24H as for Data Request (RQ1) and Data set (DT1).

○ About Device ID

System Exclusive messages are not assigned to any particular MIDI channel. Instead, they have their own special control parameter called device ID.

The Roland system exclusive messages use device IDs to specify multiple M-400 units. The M-400 sends system exclusive messages using 00H-1FH, and receives the system exclusive messages whose device ID is same as its device ID and 7FH. The value of the device ID is the value set on the REMOTE popup's Dev ID minus one.

● Universal System Exclusive Message

○ Identity Request

Status	Data Byte	Status
F0H	7EH,Dev,06H,01H	F7H

Byte	Description
F0H	Status of System Exclusive Message
7EH	Universal System Exclusive message Non Real-time header
Dev	Device ID (or 7FH)
06H	General Information (sub-ID #1)
01H	Identity Request (sub-ID #2)
F7H	EOX (End of System Exclusive message)

The message is used to request the particular information of the M-400.

The M-400 does not transmit the message.

If the M-400 received the message and the device ID of the message is same as its device ID or 7FH, the M-400 transmits the following Identity Reply message.

○ Identity Reply

Status	Data Byte	Status
F0H	7EH,Dev,06H,02H,41H,mmH,mmH, 00H,00H,00H,00H,ssH,ssH	F7H

Byte	Description
F0H	Status of System Exclusive Message
7EH	Universal System Exclusive message Non Real-time header
Dev	Device ID (or 7FH)
06H	General Information (sub-ID #1)
02H	Identity Reply (sub-ID #2)
41H	Manufacturer ID (Roland)
mmH mmH	Device Family Code (M-400)
00H 00H	Device Family No.
01H	
00H	
ssH ssH	Software Revision Level
F7H	EOX (End of System Exclusive message)

When M-400, the value of the device family code is 24H 02H.

○ MIDI Machine Control Commands

Status	Data Byte	Status
F0H	7FH,Dev,06H,aaH, ...,bbH	F7H

Byte	Description
F0H	Status of System Exclusive Message
7FH	Universal System Exclusive message Real-time header
Dev	Device ID (or 7FH)
06H	MMC Command Message
aaH	Command
:	:
bbH	Command
F7H	EOX (End of System Exclusive message)

(* See "3. MIDI Machine Control"

● Data Transfer (RQ1, DT1)

○ Data Request (RQ1)

Status	Data Byte	Status
F0H	41H,Dev,00H,00H,24H,11H,aaH,bbH, ccH,ddH,ssH,ssH,ssH,ssH,Sum	F7H

Byte	Description
F0H	Status of System Exclusive Message
41H	Manufacturer ID (Roland)
Dev	Device ID
00H 00H 24H	Model ID (M-400)
11H	Command ID (RQ1)
aaH	Address MSB
bbH	Address
ccH	Address
ddH	Address LSB
ssH	Size MSB
ssH	Size
ssH	Size
ssH	Size LSB
Sum	Check Sum
F7H	EOX (End of System Exclusive message)

This messages is used to request parameters from the M-400.

When this message is received, the requested data will be transmitted if the following conditions are satisfied.

1. The address specified by RQ1 corresponds to one of the applicable parameter base addressed of the M-400.
2. The requested size is 1 or greater.

If the above conditions are satisfied, the corresponding parameters will be transmitted in the form described in Data Set (DT1).

○ Data Set (DT1)

Status	Data Byte	Status
F0H	41H,Dev,00H,00H,24H,12H,aaH,bbH, ccH,ddH, ...,eeH,Sum	F7H

Byte	Description
F0H	Status of System Exclusive Message
41H	Manufacturer ID (Roland)
Dev	Device ID
00H 00H 24H	Model ID (M-400)
12H	Command ID (DT1)
aaH	Address MSB
bbH	Address
ccH	Address
ddH	Address LSB
eeH	Data
Sum	Check Sum
F7H	EOX (End of System Exclusive message)

The message is received under the following condition.

If the device ID on the message is same as that of the received device, and the address on the message correspond to the specified parameter base address, the received data are stored form the specified parameter base address.

2. Data Transfer Address Map

(*) Addresses with a “#” are ignored, even when sent as the Start Addresses. Transmit the Data Set (DT1) or Data Request (RQ1) message with the specified size to the address without “#” mark.

■Address Block

<Model ID = 00H 00H 24H (M-400)>

Addresses are expressed in 7bit hexadecimal values.

Address	MSB			LSB
Binary	0aaa aaaa	0bbb bbbb	0ccc cccc	0ddd dddd
7 Bit Hex	AA	BB	CC	DD

Start address	Contents and remarks
00 00 00 00	INPUT BOARD PARAMETERS
01 00 00 00	OUTPUT BOARD PARAMETERS
02 00 00 00	INPUT PATCHBAY PARAMETERS
03 00 00 00	INPUT CHANNEL PARAMETERS
04 00 00 00	TALKBACK/OSCILLATOR PARAMETERS
05 00 00 00	AUX CHANNEL PARAMETERS
06 00 00 00	MAIN CHANNEL PARAMETERS
07 00 00 00	MONITOR PARAMETERS
08 00 00 00	MUTE GROUP PARAMETERS
09 00 00 00	DCA GROUP PARAMETERS
0A 00 00 00	OUTPUT PATCHBAY PARAMETERS
0B 00 00 00	EFFECT PARAMETERS
0B 10 00 00	31 BAND GEQ PARAMETERS
0B 20 00 00	EXTERNAL EFFECT PARAMETERS
0E 00 00 00	MATRIX CHANNEL PARAMETERS
0F 00 00 00	TEMPO PARAMETERS
0C 00 00 00	USB MEMORY RECORDER PARAMETERS
10 00 00 00	SYSTEM PARAMETERS

●Input Board Parameter

Start address	Data	Contents and remarks
00 00 00 00	00	(Reserved)
00 00 00 01	00 - 37	SI-AD4 GAIN 0,,,55 = -10dBu,,, -65dBu (PAD = OFF) 0,,,55 = +10dBu,,, -45dBu (PAD = ON)
	00 - 01	SI-AES4 INPUT A LOCK (*1) OFF, ON
00 00 00 02	00 - 01	SI-AD4 PAD OFF, ON
00 00 00 03	00 - 01	SI-AD4 PHANTOM OFF, ON
00 00 00 04	00 - 01	SI-AD4 LINK (*1) OFF, ON
00 00 00 05	00	(Reserved)
00 00 7F 7F	00	(Reserved)
00 01 00 00	00 -	REAC A INPUT2 Parameter Area (similat to 00 00 00 00 - 00 00 7F 7F)
00 01 7F 7F	00 -	:
	:	:
00 28 00 00	00 -	REAC A INPUT40 Parameter Area (similat to 00 00 00 00 - 00 00 7F 7F)
00 28 7F 7F	00 -	:
00 29 00 00	00 -	REAC B INPUT1 Parameter Area (similat to 00 00 00 00 - 00 00 7F 7F)
00 29 7F 7F	00 -	:
	:	:
00 4F 00 00	00 -	REAC B INPUT40 Parameter Area (similat to 00 00 00 00 - 00 00 7F 7F)
00 4F 7F 7F	00 -	:

00 50 00 00	00	(Reserved)
00 50 00 01	00 - 37	CONSOLE INTPUT1 GAIN 0,,,55 = -10dBu,,, -65dBu (PAD = OFF) +10dBu,,, -45dBu (PAD = ON)
00 50 00 02	00 - 01	CONSOLE INTPUT1 PAD OFF, ON
00 50 00 03	00 - 01	CONSOLE INTPUT1 PHANTOM OFF, ON
00 50 00 04	00	(Reserved)
00 50 7F 7F	00	(Reserved)
00 51 00 00	00 -	CONSOLE INTPUT2 (similat to 00 50 00 00 - 00 50 7F 7F)
00 51 7F 7F	00 -	:
	:	:
00 57 00 00	00 -	CONSOLE INTPUT8 (similat to 00 50 00 00 - 00 50 7F 7F)
00 57 7F 7F	00 -	:
00 58 00 00	05	STEREO IN L TYPE 5 = STEREO IN
00 58 00 01	00 - 12	STEREO IN L GAIN 0,,,18 = 0dBu,,, -18dBu
00 58 00 02	00	(Reserved)
00 58 7F 7F	00	(Reserved)
00 59 00 00	00	(Reserved)
00 59 00 01	00 - 12	STEREO IN R GAIN 0,,,18 = 0dBu,,, -18dBu
00 59 00 02	00	(Reserved)
00 59 7F 7F	00	(Reserved)
00 5A 00 00	00	(Reserved)
00 5A 00 01	00 - 28	TALKBACK GAIN (*1) 0,,,40 = -10dBu,,, -55dBu
00 5A 00 02	00	(Reserved)
00 5A 00 03	00 - 01	TALKBACK PHANTOM OFF, ON
00 5A 00 04	00	(Reserved)
00 5A 7F 7F	00	(Reserved)

(*1) This is read-only.

●Output Board Parameter

Start address	Data	Contents and remarks
01 00 00 00	00	(Reserved)
01 00 00 03	00	(Reserved)
01 00 7F 7F	00	(Reserved)
01 01 00 00	00 -	REAC A OUTPUT2 Parameter Area (similat to 01 00 00 00 - 01 00 7F 7F)
01 01 7F 7F	00 -	:
	:	:
01 28 00 00	00 -	REAC A OUTPUT40 Parameter Area (similat to 01 00 00 00 - 01 00 7F 7F)
01 28 7F 7F	00 -	:
01 29 00 00	00 -	REAC B OUTPUT1 Parameter Area (similat to 01 00 00 00 - 01 00 7F 7F)
01 29 7F 7F	00 -	:
	:	:
01 4F 00 00	00 -	REAC B OUTPUT40 Parameter Area (similat to 01 00 00 00 - 01 00 7F 7F)
01 4F 7F 7F	00 -	:

(*1) This is read-only.

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●Input Patchbay Parameter

Start address	Data	Contents and remarks
02 00 00 00	00 - 65	CHANNEL1 SOURCE 0,,,39 = REAC A IN1,,,REAC A IN40 40,,,79 = REAC B IN1,,,REAC B IN40 80,,,87 = CONSOLE IN1,,,CONSOLE IN8 88,89 = STEREO IN L, STAREO IN R 91 = (Reserved) 92,93 = PLAY L,,,PLAY R 94,95 = FX1 OUT L,FX1 OUT R 96,97 = FX2 OUT L,FX2 OUT R 98,99 = FX3 OUT L,FX3 OUT R 100,101 = FX4 OUT L,FX4 OUT R 127 = NONE
02 00 00 01	00	(Reserved)
02 00 7F 7F	00	(Reserved)
02 01 00 00	00 -	CHANNEL2 (similar to 02 00 00 00 - 02 00 7F 7F)
02 01 7F 7F	00 -	:
02 2F 00 00	00 -	CHANNEL48 (similar to 02 00 00 00 - 02 00 7F 7F)
02 2F 7F 7F	00 -	:

●Input Channel Parameter

Start address	Data	Contents and remarks
03 00 00 00	20 - 7F	CHANNEL1 NAME-1 (ASCII)
03 00 00 01#	20 - 7F	CHANNEL1 NAME-2 (ASCII)
03 00 00 02#	20 - 7F	CHANNEL1 NAME-3 (ASCII)
03 00 00 03#	20 - 7F	CHANNEL1 NAME-4 (ASCII)
03 00 00 04#	20 - 7F	CHANNEL1 NAME-5 (ASCII)
03 00 00 05#	20 - 7F	CHANNEL1 NAME-6 (ASCII)
03 00 00 06	00 - 07	CHANNEL1 NAME COLOR 0,,,7 = Navy,Blue,Brown,Red,Yellow, Green,Aqua,Purple
03 00 00 07	00	(Reserved)
03 00 00 08	00 - 01	CHANNEL1 LINK OFF,ON
03 00 00 09	00 - 01	CHANNEL1 PHASE NRM,INV
03 00 00 0A	0aaaaaaa	CHANNEL1 ATT
03 00 00 0B#	0bbbbbbb	-480,,,240 = -48.0,,,+24.0dB
03 00 00 0C	00 - 01	CHANNEL1 MUTE OFF,ON
03 00 00 0D	00 - 01	CHANNEL1 SOLO OFF,ON
03 00 00 0E	0aaaaaaa	CHANNEL1 FADER LEVEL
03 00 00 0F#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
03 00 00 10	01 - 7F	CHANNEL1 PAN L63,,,R63
03 00 00 11	00 - 01	CHANNEL1 MAIN SWITCH OFF,ON
03 00 00 12	00	(Reserved)
03 00 00 1F	00	(Reserved)
03 00 00 20	00 - 01	CHANNEL1 FILTER SWITCH OFF,ON
03 00 00 21	00 - 03	CHANNEL1 FILTER TYPE HI PASS,NOTCH,BAND PASS,LO PASS
03 00 00 22	0aaaaaaa	CHANNEL1 FILTER ATT
03 00 00 23#	0bbbbbbb	-480,,,150 = -48.0,,,+15.0dB
03 00 00 24	0aaaaaaa	CHANNEL1 FILTER FREQ 20Hz,,,20000Hz
03 00 00 25#	0bbbbbbb	
03 00 00 26#	0ccccccc	
03 00 00 27	0aaaaaaa	CHANNEL1 FILTER Q
03 00 00 28#	0bbbbbbb	36,,,1600 = 0.36,,,16.00
03 00 00 29	00	(Reserved)
03 00 00 2F	00	(Reserved)
03 00 00 30	00 - 01	CHANNEL1 GATE SWITCH OFF,ON
03 00 00 31	00 - 7F	CHANNEL1 GATE KEY-IN 0,,,47 = CH1,,,CH48 127 = SELF
03 00 00 32	00 - 02	CHANNEL1 GATE MODE EXPANDER,GATE,DUCKING
03 00 00 33	0aaaaaaa	CHANNEL1 GATE THRESHOLD
03 00 00 34#	0bbbbbbb	-800,,,0 = -80.0,,,0.0dB
03 00 00 35	00 - 0D	CHANNEL1 GATE RATIO 1.00:1,,,Inf:1 (*1)

03 00 00 36	00 - 09	CHANNEL1 GATE KNEE HARD, SOFT1,,,SOFT9
03 00 00 37	0aaaaaaa	CHANNEL1 GATE RANGE
03 00 00 38#	0bbbbbbb	less than -905,-905,,,0 = -Inf,-90.5,,,0.0dB
03 00 00 39	0aaaaaaa	CHANNEL1 GATE ATTACK
03 00 00 3A#	0bbbbbbb	0,,,8000 = 0.0,,,800.0ms
03 00 00 3B	0aaaaaaa	CHANNEL1 GATE RELEASE
03 00 00 3C#	0bbbbbbb	0,,,8000ms
03 00 00 3D	0aaaaaaa	CHANNEL1 GATE HOLD
03 00 00 3E#	0bbbbbbb	0,,,8000ms
03 00 00 3F	00	(Reserved)
03 00 00 40	00 - 01	CHANNEL1 COMPRESSOR SWITCH OFF,ON
03 00 00 41	00 - 7F	CHANNEL1 COMPRESSOR KEY-IN 0,,,47 = CH1,,,CH48 127 = SELF
03 00 00 42	0aaaaaaa	CHANNEL1 COMPRESSOR THRESHOLD
03 00 00 43#	0bbbbbbb	-400,,,0 = -40.0,,,0.0dB
03 00 00 44	00 - 0D	CHANNEL1 COMPRESSOR RATIO 1.00:1,,,Inf:1 (*1)
03 00 00 45	00 - 09	CHANNEL1 COMPRESSOR KNEE HARD, SOFT1,,,SOFT9
03 00 00 46	0aaaaaaa	CHANNEL1 COMPRESSOR ATTACK
03 00 00 47#	0bbbbbbb	0,,,8000 = 0.0,,,800.0ms
03 00 00 48	0aaaaaaa	CHANNEL1 COMPRESSOR RELEASE
03 00 00 49#	0bbbbbbb	0,,,8000ms
03 00 00 4A	0aaaaaaa	CHANNEL1 COMPRESSOR GAIN
03 00 00 4B#	0bbbbbbb	-400,,,400 = -40.0,,,+40.0dB(A.GAIN=OFF) -400,,,60 = -40.0,,,+6.0dB(A.GAIN=ON)
03 00 00 4C	00 - 01	CHANNEL1 COMPRESSOR AUTO GAIN OFF,ON
03 00 00 4D	00	(Reserved)
03 00 00 4E	00	(Reserved)
03 00 00 4F	00	(Reserved)
03 00 00 50	00 - 01	CHANNEL1 EQ SWITCH OFF,ON
03 00 00 51	0aaaaaaa	CHANNEL1 EQ ATT
03 00 00 52#	0bbbbbbb	-480,,,150 = -48.0,,,+15.0dB
03 00 00 53	0aaaaaaa	CHANNEL1 EQ LO GAIN
03 00 00 54#	0bbbbbbb	-150,,,150 = -15.0,,,+15.0dB
03 00 00 55	0aaaaaaa	CHANNEL1 EQ LO FREQ 20Hz,,,1000Hz
03 00 00 56#	0bbbbbbb	
03 00 00 57#	0ccccccc	
03 00 00 58	0aaaaaaa	CHANNEL1 EQ LO-MID GAIN
03 00 00 59#	0bbbbbbb	-150,,,150 = -15.0,,,+15.0dB
03 00 00 5A	0aaaaaaa	CHANNEL1 EQ LO-MID FREQ 20Hz,,,20000Hz
03 00 00 5B#	0bbbbbbb	
03 00 00 5C#	0ccccccc	
03 00 00 5D	0aaaaaaa	CHANNEL1 EQ LO-MID Q
03 00 00 5E#	0bbbbbbb	36,,,1600 = 0.36,,,16.00
03 00 00 5F	0aaaaaaa	CHANNEL1 EQ HI-MID GAIN
03 00 00 60#	0bbbbbbb	-150,,,150 = -15.0,,,+15.0dB
03 00 00 61	0aaaaaaa	CHANNEL1 EQ HI-MID FREQ 20Hz,,,20000Hz
03 00 00 62#	0bbbbbbb	
03 00 00 63#	0ccccccc	
03 00 00 64	0aaaaaaa	CHANNEL1 EQ HI-MID Q
03 00 00 65#	0bbbbbbb	36,,,1600 = 0.36,,,16.00
03 00 00 66	0aaaaaaa	CHANNEL1 EQ HI GAIN
03 00 00 67#	0bbbbbbb	-150,,,150 = -15.0,,,+15.0dB
03 00 00 68	0aaaaaaa	CHANNEL1 EQ HI FREQ 1000Hz,,,20000Hz
03 00 00 69#	0bbbbbbb	
03 00 00 6A#	0ccccccc	
03 00 00 6B	00	(Reserved)
03 00 00 6C	00	(Reserved)
03 00 00 6D	00	(Reserved)
03 00 01 00	00 - 01	CHANNEL1 AUX1 SEND SWITCH OFF,ON
03 00 01 01	00 - 02	CHANNEL1 AUX1 SEND POSITION PRE EQ, PRE FADER, POST FADER
03 00 01 02	0aaaaaaa	CHANNEL1 AUX1 SEND LEVEL
03 00 01 03#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
03 00 01 04	01 - 7F	CHANNEL1 AUX1 SEND PAN L63,,,R63
03 00 01 05	00 - 01	CHANNEL1 AUX1 SEND PAN LINK OFF,ON
03 00 01 06	00	(Reserved)
03 00 01 07	00	(Reserved)
03 00 01 08	00 - 01	CHANNEL1 AUX2 SEND SWITCH OFF,ON
03 00 01 09	00 - 02	CHANNEL1 AUX2 SEND POSITION PRE EQ, PRE FADER, POST FADER

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03 00 01 0A 03 00 01 0B#	0aaaaaaaa 0bbbbbbb	CHANNEL1 AUX2 SEND LEVEL less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
03 00 01 0C	01 - 7F	CHANNEL1 AUX2 SEND PAN L63,,,R63
03 00 01 0D	00 - 01	CHANNEL1 AUX2 SEND PAN LINK OFF,ON
03 00 01 0E	00	(Reserved)
03 00 01 0F	00	(Reserved)
03 00 01 10	00 - 01	CHANNEL1 AUX3 SEND SWITCH OFF,ON
03 00 01 11	00 - 02	CHANNEL1 AUX3 SEND POSITION PRE EQ, PRE FADER, POST FADER
03 00 01 12 03 00 01 13#	0aaaaaaaa 0bbbbbbb	CHANNEL1 AUX3 SEND LEVEL less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
03 00 01 14	01 - 7F	CHANNEL1 AUX3 SEND PAN L63,,,R63
03 00 01 15	00 - 01	CHANNEL1 AUX3 SEND PAN LINK OFF,ON
03 00 01 16	00	(Reserved)
03 00 01 17	00	(Reserved)
03 00 01 18	00 - 01	CHANNEL1 AUX4 SEND SWITCH OFF,ON
03 00 01 19	00 - 02	CHANNEL1 AUX4 SEND POSITION PRE EQ, PRE FADER, POST FADER
03 00 01 1A 03 00 01 1B#	0aaaaaaaa 0bbbbbbb	CHANNEL1 AUX4 SEND LEVEL less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
03 00 01 1C	01 - 7F	CHANNEL1 AUX4 SEND PAN L63,,,R63
03 00 01 1D	00 - 01	CHANNEL1 AUX4 SEND PAN LINK OFF,ON
03 00 01 1E	00	(Reserved)
03 00 01 1F	00	(Reserved)
03 00 01 20	00 - 01	CHANNEL1 AUX5 SEND SWITCH OFF,ON
03 00 01 21	00 - 02	CHANNEL1 AUX5 SEND POSITION PRE EQ, PRE FADER, POST FADER
03 00 01 22 03 00 01 23#	0aaaaaaaa 0bbbbbbb	CHANNEL1 AUX5 SEND LEVEL less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
03 00 01 24	01 - 7F	CHANNEL1 AUX5 SEND PAN L63,,,R63
03 00 01 25	00 - 01	CHANNEL1 AUX5 SEND PAN LINK OFF,ON
03 00 01 26	00	(Reserved)
03 00 01 27	00	(Reserved)
03 00 01 28	00 - 01	CHANNEL1 AUX6 SEND SWITCH OFF,ON
03 00 01 29	00 - 02	CHANNEL1 AUX6 SEND POSITION PRE EQ, PRE FADER, POST FADER
03 00 01 2A 03 00 01 2B#	0aaaaaaaa 0bbbbbbb	CHANNEL1 AUX6 SEND LEVEL less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
03 00 01 2C	01 - 7F	CHANNEL1 AUX6 SEND PAN L63,,,R63
03 00 01 2D	00 - 01	CHANNEL1 AUX6 SEND PAN LINK OFF,ON
03 00 01 2E	00	(Reserved)
03 00 01 2F	00	(Reserved)
03 00 01 30	00 - 01	CHANNEL1 AUX7 SEND SWITCH OFF,ON
03 00 01 31	00 - 02	CHANNEL1 AUX7 SEND POSITION PRE EQ, PRE FADER, POST FADER
03 00 01 32 03 00 01 33#	0aaaaaaaa 0bbbbbbb	CHANNEL1 AUX7 SEND LEVEL less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
03 00 01 34	01 - 7F	CHANNEL1 AUX7 SEND PAN L63,,,R63
03 00 01 35	00 - 01	CHANNEL1 AUX7 SEND PAN LINK OFF,ON
03 00 01 36	00	(Reserved)
03 00 01 37	00	(Reserved)
03 00 01 38	00 - 01	CHANNEL1 AUX8 SEND SWITCH OFF,ON
03 00 01 39	00 - 02	CHANNEL1 AUX8 SEND POSITION PRE EQ, PRE FADER, POST FADER
03 00 01 3A 03 00 01 3B#	0aaaaaaaa 0bbbbbbb	CHANNEL1 AUX8 SEND LEVEL less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
03 00 01 3C	01 - 7F	CHANNEL1 AUX8 SEND PAN L63,,,R63
03 00 01 3D	00 - 01	CHANNEL1 AUX8 SEND PAN LINK OFF,ON
03 00 01 3E	00	(Reserved)
03 00 01 3F	00	(Reserved)

03 00 01 40	00 - 01	CHANNEL1 AUX9 SEND SWITCH OFF,ON
03 00 01 41	00 - 02	CHANNEL1 AUX9 SEND POSITION PRE EQ, PRE FADER, POST FADER
03 00 01 42 03 00 01 43#	0aaaaaaaa 0bbbbbbb	CHANNEL1 AUX9 SEND LEVEL less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
03 00 01 44	01 - 7F	CHANNEL1 AUX9 SEND PAN L63,,,R63
03 00 01 45	00 - 01	CHANNEL1 AUX9 SEND PAN LINK OFF,ON
03 00 01 46	00	(Reserved)
03 00 01 47	00	(Reserved)
03 00 01 48	00 - 01	CHANNEL1 AUX10 SEND SWITCH OFF,ON
03 00 01 49	00 - 02	CHANNEL1 AUX10 SEND POSITION PRE EQ, PRE FADER, POST FADER
03 00 01 4A 03 00 01 4B#	0aaaaaaaa 0bbbbbbb	CHANNEL1 AUX10 SEND LEVEL less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
03 00 01 4C	01 - 7F	CHANNEL1 AUX10 SEND PAN L63,,,R63
03 00 01 4D	00 - 01	CHANNEL1 AUX10 SEND PAN LINK OFF,ON
03 00 01 4E	00	(Reserved)
03 00 01 4F	00	(Reserved)
03 00 01 50	00 - 01	CHANNEL1 AUX11 SEND SWITCH OFF,ON
03 00 01 51	00 - 02	CHANNEL1 AUX11 SEND POSITION PRE EQ, PRE FADER, POST FADER
03 00 01 52 03 00 01 53#	0aaaaaaaa 0bbbbbbb	CHANNEL1 AUX11 SEND LEVEL less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
03 00 01 54	01 - 7F	CHANNEL1 AUX11 SEND PAN L63,,,R63
03 00 01 55	00 - 01	CHANNEL1 AUX11 SEND PAN LINK OFF,ON
03 00 01 56	00	(Reserved)
03 00 01 57	00	(Reserved)
03 00 01 58	00 - 01	CHANNEL1 AUX12 SEND SWITCH OFF,ON
03 00 01 59	00 - 02	CHANNEL1 AUX12 SEND POSITION PRE EQ, PRE FADER, POST FADER
03 00 01 5A 03 00 01 5B#	0aaaaaaaa 0bbbbbbb	CHANNEL1 AUX12 SEND LEVEL less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
03 00 01 5C	01 - 7F	CHANNEL1 AUX12 SEND PAN L63,,,R63
03 00 01 5D	00 - 01	CHANNEL1 AUX12 SEND PAN LINK OFF,ON
03 00 01 5E	00	(Reserved)
03 00 01 5F	00	(Reserved)
03 00 01 60	00 - 01	CHANNEL1 AUX13 SEND SWITCH OFF,ON
03 00 01 61	00 - 02	CHANNEL1 AUX13 SEND POSITION PRE EQ, PRE FADER, POST FADER
03 00 01 62 03 00 01 63#	0aaaaaaaa 0bbbbbbb	CHANNEL1 AUX13 SEND LEVEL less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
03 00 01 64	01 - 7F	CHANNEL1 AUX13 SEND PAN L63,,,R63
03 00 01 65	00 - 01	CHANNEL1 AUX13 SEND PAN LINK OFF,ON
03 00 01 66	00	(Reserved)
03 00 01 67	00	(Reserved)
03 00 01 68	00 - 01	CHANNEL1 AUX14 SEND SWITCH OFF,ON
03 00 01 69	00 - 02	CHANNEL1 AUX14 SEND POSITION PRE EQ, PRE FADER, POST FADER
03 00 01 6A 03 00 01 6B#	0aaaaaaaa 0bbbbbbb	CHANNEL1 AUX14 SEND LEVEL less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
03 00 01 6C	01 - 7F	CHANNEL1 AUX14 SEND PAN L63,,,R63
03 00 01 6D	00 - 01	CHANNEL1 AUX14 SEND PAN LINK OFF,ON
03 00 01 6E	00	(Reserved)
03 00 01 6F	00	(Reserved)
03 00 01 70	00 - 01	CHANNEL1 AUX15 SEND SWITCH OFF,ON
03 00 01 71	00 - 02	CHANNEL1 AUX15 SEND POSITION PRE EQ, PRE FADER, POST FADER
03 00 01 72 03 00 01 73#	0aaaaaaaa 0bbbbbbb	CHANNEL1 AUX15 SEND LEVEL less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
03 00 01 74	01 - 7F	CHANNEL1 AUX15 SEND PAN L63,,,R63

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03 00 01 75	00 - 01	CHANNEL1 AUX15 SEND PAN LINK	OFF, ON
03 00 01 76	00	(Reserved)	
03 00 01 77	00	(Reserved)	
03 00 01 78	00 - 01	CHANNEL1 AUX16 SEND SWITCH	OFF, ON
03 00 01 79	00 - 02	CHANNEL1 AUX16 SEND POSITION PRE EQ, PRE FADER, POST FADER	
03 00 01 7A	0aaaaaaa	CHANNEL1 AUX16 SEND LEVEL less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB	
03 00 01 7B#	0bbbbbbb		
03 00 01 7C	01 - 7F	CHANNEL1 AUX16 SEND PAN	L63,,,R63
03 00 01 7D	00 - 01	CHANNEL1 AUX16 SEND PAN LINK	OFF, ON
03 00 01 7E	00	(Reserved)	
03 00 02 10	00	(Reserved)	
03 00 02 11	00 - 02	CHANNEL1 DIRECT OUT POSITION PRE EQ, PRE FADER, POST FADER	
03 00 02 12	00	(Reserved)	
03 00 7F 7F	00	(Reserved)	
03 01 00 00	00 -	CHANNEL2 (similar to 03 00 00 00 - 03 00 7F 7F)	
03 01 7F 7F	00 -	:	
03 2F 00 00	00 -	CHANNEL48 (similar to 03 00 00 00 - 03 00 7F 7F)	
03 2F 7F 7F	00 -	:	

(*1) Dynamics Ratio Table

Data	RATIO
0	1-00:1
1	1-12:1
2	1-25:1
3	1-40:1
4	1-60:1
5	1-80:1
6	2-00:1
7	2-50:1
8	3-20:1
9	4-00:1
10	5-60:1
11	8-00:1
12	16-0:1
13	Inf:1

●Talkback/Oscillator Parameter

Start address	Data	Contents and remarks
04 00 00 00	00 - 01	TALKBACK SWITCH (*1) OFF, ON
04 00 00 01	00	(Reserved)
04 00 00 02	0aaaaaaa	TALKBACK LEVEL less than -905,-905,,,0 = -Inf,-90.5,,,0.0dB
04 00 00 03#	0bbbbbbb	
04 00 00 04	00	(Reserved)
04 00 00 07	00	(Reserved)
04 00 00 08	00 - 01	TALKBACK MAIN L SEND OFF, ON
04 00 00 09	00 - 01	TALKBACK MAIN R SEND OFF, ON
04 00 00 0A	00 - 01	TALKBACK AUX1 SEND OFF, ON
04 00 00 0B	00 - 01	TALKBACK AUX2 SEND OFF, ON
04 00 00 0C	00 - 01	TALKBACK AUX3 SEND OFF, ON
04 00 00 0D	00 - 01	TALKBACK AUX4 SEND OFF, ON
04 00 00 0E	00 - 01	TALKBACK AUX5 SEND OFF, ON
04 00 00 0F	00 - 01	TALKBACK AUX6 SEND OFF, ON
04 00 00 10	00 - 01	TALKBACK AUX7 SEND OFF, ON
04 00 00 11	00 - 01	TALKBACK AUX8 SEND OFF, ON
04 00 00 12	00 - 01	TALKBACK AUX9 SEND OFF, ON
04 00 00 13	00 - 01	TALKBACK AUX10 SEND OFF, ON
04 00 00 14	00 - 01	TALKBACK AUX11 SEND OFF, ON
04 00 00 15	00 - 01	TALKBACK AUX12 SEND OFF, ON
04 00 00 16	00 - 01	TALKBACK AUX13 SEND OFF, ON

04 00 00 17	00 - 01	TALKBACK AUX14 SEND	OFF, ON
04 00 00 18	00 - 01	TALKBACK AUX15 SEND	OFF, ON
04 00 00 19	00 - 01	TALKBACK AUX16 SEND	OFF, ON
04 00 00 1A	00 - 01	TALKBACK MTX1 SEND	OFF, ON
04 00 00 1B	00 - 01	TALKBACK MTX2 SEND	OFF, ON
04 00 00 1C	00 - 01	TALKBACK MTX3 SEND	OFF, ON
04 00 00 1D	00 - 01	TALKBACK MTX4 SEND	OFF, ON
04 00 00 1E	00 - 01	TALKBACK MTX5 SEND	OFF, ON
04 00 00 1F	00 - 01	TALKBACK MTX6 SEND	OFF, ON
04 00 00 20	00 - 01	TALKBACK MTX7 SEND	OFF, ON
04 00 00 21	00 - 01	TALKBACK MTX8 SEND	OFF, ON
04 00 00 22	00	(Reserved)	
04 00 00 7F	00	(Reserved)	
04 00 01 00	00 - 01	OSCILLATOR SWITCH	OFF, ON
04 00 01 01	00 - 02	OSCILLATOR TYPE SINE WAVE, PINK NOISE, WHITE NOISE	
04 00 01 02	0aaaaaaa	OSCILLATOR LEVEL less than -905,-905,,,0 = -Inf,-90.5,,,0.0dB	
04 00 01 03#	0bbbbbbb		
04 00 01 04	0aaaaaaa	OSCILLATOR FREQ	20,,,20000Hz
04 00 01 05#	0bbbbbbb		
04 00 01 06#	0ccccccc		
04 00 01 07	00	(Reserved)	
04 00 01 08	00 - 01	OSCILLATOR MAIN L SEND	OFF, ON
04 00 01 09	00 - 01	OSCILLATOR MAIN R SEND	OFF, ON
04 00 01 0A	00 - 01	OSCILLATOR AUX1 SEND	OFF, ON
04 00 01 0B	00 - 01	OSCILLATOR AUX2 SEND	OFF, ON
04 00 01 0C	00 - 01	OSCILLATOR AUX3 SEND	OFF, ON
04 00 01 0D	00 - 01	OSCILLATOR AUX4 SEND	OFF, ON
04 00 01 0E	00 - 01	OSCILLATOR AUX5 SEND	OFF, ON
04 00 01 0F	00 - 01	OSCILLATOR AUX6 SEND	OFF, ON
04 00 01 10	00 - 01	OSCILLATOR AUX7 SEND	OFF, ON
04 00 01 11	00 - 01	OSCILLATOR AUX8 SEND	OFF, ON
04 00 01 12	00 - 01	OSCILLATOR AUX9 SEND	OFF, ON
04 00 01 13	00 - 01	OSCILLATOR AUX10 SEND	OFF, ON
04 00 01 14	00 - 01	OSCILLATOR AUX11 SEND	OFF, ON
04 00 01 15	00 - 01	OSCILLATOR AUX12 SEND	OFF, ON
04 00 01 16	00 - 01	OSCILLATOR AUX13 SEND	OFF, ON
04 00 01 17	00 - 01	OSCILLATOR AUX14 SEND	OFF, ON
04 00 01 18	00 - 01	OSCILLATOR AUX15 SEND	OFF, ON
04 00 01 19	00 - 01	OSCILLATOR AUX16 SEND	OFF, ON
04 00 01 1A	00 - 01	OSCILLATOR MTX1 SEND	OFF, ON
04 00 01 1B	00 - 01	OSCILLATOR MTX2 SEND	OFF, ON
04 00 01 1C	00 - 01	OSCILLATOR MTX3 SEND	OFF, ON
04 00 01 1D	00 - 01	OSCILLATOR MTX4 SEND	OFF, ON
04 00 01 1E	00 - 01	OSCILLATOR MTX5 SEND	OFF, ON
04 00 01 1F	00 - 01	OSCILLATOR MTX6 SEND	OFF, ON
04 00 01 20	00 - 01	OSCILLATOR MTX7 SEND	OFF, ON
04 00 01 21	00 - 01	OSCILLATOR MTX8 SEND	OFF, ON

(*1) This is read-only.

●AUX Channel Parameter

Start address	Data	Contents and remarks
05 00 00 00	20 - 7F	AUX1 NAME-1 (ASCII)
05 00 00 01#	20 - 7F	AUX1 NAME-2 (ASCII)
05 00 00 02#	20 - 7F	AUX1 NAME-3 (ASCII)
05 00 00 03#	20 - 7F	AUX1 NAME-4 (ASCII)
05 00 00 04#	20 - 7F	AUX1 NAME-5 (ASCII)
05 00 00 05#	20 - 7F	AUX1 NAME-6 (ASCII)
05 00 00 06	00 - 07	AUX1 NAME COLOR 0,,,7 = Navy,Blue,Brown,Red,Yellow, Green,Aqua,Purple
05 00 00 07	00	(Reserved)
05 00 00 08	00 - 01	AUX1 LINK OFF,ON
05 00 00 09	00	(Reserved)
05 00 00 0A	00 - 08	AUX1 ATT -8,,,0 = -48.0,,,0dB (6dB Step)
05 00 00 0B	00	(Reserved)
05 00 00 0C	00 - 01	AUX1 MUTE OFF,ON
05 00 00 0D	00 - 01	AUX1 SOLO OFF,ON
05 00 00 0E	0aaaaaaa	AUX1 FADER LEVEL
05 00 00 0F#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
05 00 00 10	01 - 7F	AUX1 BALANCE L63,,,R63
05 00 00 11	00	(Reserved)
05 00 00 4F	00	(Reserved)
05 00 00 50	00 - 01	AUX1 EQ SWITCH OFF,ON
05 00 00 51	0aaaaaaa	AUX1 EQ ATT
05 00 00 52#	0bbbbbbb	-480,,,150 = -48.0,,,+15.0dB
05 00 00 53	0aaaaaaa	AUX1 EQ LO GAIN
05 00 00 54#	0bbbbbbb	-150,,,150 = -15.0,,,+15.0dB
05 00 00 55	0aaaaaaa	AUX1 EQ LO FREQ 20Hz,,,1000Hz
05 00 00 56#	0bbbbbbb	
05 00 00 57#	0ccccccc	
05 00 00 58	0aaaaaaa	AUX1 EQ LO-MID GAIN
05 00 00 59#	0bbbbbbb	-150,,,150 = -15.0,,,+15.0dB
05 00 00 5A	0aaaaaaa	AUX1 EQ LO-MID FREQ 20Hz,,,20000Hz
05 00 00 5B#	0bbbbbbb	
05 00 00 5C#	0ccccccc	
05 00 00 5D	0aaaaaaa	AUX1 EQ LO-MID Q
05 00 00 5E#	0bbbbbbb	36,,,1600 = 0.36,,,16.00
05 00 00 5F	0aaaaaaa	AUX1 EQ HI-MID GAIN
05 00 00 60#	0bbbbbbb	-150,,,150 = -15.0,,,+15.0dB
05 00 00 61	0aaaaaaa	AUX1 EQ HI-MID FREQ 20Hz,,,20000Hz
05 00 00 62#	0bbbbbbb	
05 00 00 63#	0ccccccc	
05 00 00 64	0aaaaaaa	AUX1 EQ HI-MID Q
05 00 00 65#	0bbbbbbb	36,,,1600 = 0.36,,,16.00
05 00 00 66	0aaaaaaa	AUX1 EQ HI GAIN
05 00 00 67#	0bbbbbbb	-150,,,150 = -15.0,,,+15.0dB
05 00 00 68	0aaaaaaa	AUX1 EQ HI FREQ 1000Hz,,,20000Hz
05 00 00 69#	0bbbbbbb	
05 00 00 6A#	0ccccccc	
05 00 00 6B	00	(Reserved)
05 00 00 6F	00	(Reserved)
05 00 00 70	00 - 01	AUX1 LIMITER SWITCH OFF,ON
05 00 00 71	0aaaaaaa	AUX1 LIMITER THRESHOLD
05 00 00 72#	0bbbbbbb	-400,,,0 = -40.0,,,0.0dB
05 00 00 73	00 - 09	AUX1 LIMITER KNEE HARD, SOFT1,,,SOFT9
05 00 00 74	0aaaaaaa	AUX1 LIMITER ATTACK
05 00 00 75#	0bbbbbbb	0,,,8000 = 0.0,,,800.0ms
05 00 00 76	0aaaaaaa	AUX1 LIMITER RELEASE
05 00 00 77#	0bbbbbbb	0,,,8000ms
05 00 00 78	00	(Reserved)
05 00 01 7F	00	(Reserved)
05 00 02 00	00 - 01	AUX1 MAIN SEND SWITCH OFF,ON
05 00 02 01	00 - 02	AUX1 MAIN SEND POSITION PRE EQ, PRE FADER, POST FADER
05 00 02 02	0aaaaaaa	AUX1 MAIN SEND LEVEL
05 00 02 03#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
05 00 02 04	01 - 7F	AUX1 MAIN SEND PAN L63,,,R63

05 00 02 05	00	(Reserved)
05 00 02 1F	00	(Reserved)
05 00 02 20	00 - 01	AUX1 MTX1 SEND SWITCH OFF,ON
05 00 02 21	00 - 02	AUX1 MTX1 SEND POSITION PRE EQ, PRE FADER, POST FADER
05 00 02 22	0aaaaaaa	AUX1 MTX1 SEND LEVEL
05 00 02 23#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
05 00 02 24	01 - 7F	AUX1 MTX1 SEND PAN L63,,,R63
05 00 02 25	00	(Reserved)
05 00 02 27	00	(Reserved)
05 00 02 28	00 - 01	AUX1 MTX2 SEND SWITCH OFF,ON
05 00 02 29	00 - 02	AUX1 MTX2 SEND POSITION PRE EQ, PRE FADER, POST FADER
05 00 02 2A	0aaaaaaa	AUX1 MTX2 SEND LEVEL
05 00 02 2B#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
05 00 02 2C	01 - 7F	AUX1 MTX2 SEND PAN L63,,,R63
05 00 02 2D	00	(Reserved)
05 00 02 2F	00	(Reserved)
05 00 02 30	00 - 01	AUX1 MTX3 SEND SWITCH OFF,ON
05 00 02 31	00 - 02	AUX1 MTX3 SEND POSITION PRE EQ, PRE FADER, POST FADER
05 00 02 32	0aaaaaaa	AUX1 MTX3 SEND LEVEL
05 00 02 33#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
05 00 02 34	01 - 7F	AUX1 MTX3 SEND PAN L63,,,R63
05 00 02 35	00	(Reserved)
05 00 02 37	00	(Reserved)
05 00 02 38	00 - 01	AUX1 MTX4 SEND SWITCH OFF,ON
05 00 02 39	00 - 02	AUX1 MTX4 SEND POSITION PRE EQ, PRE FADER, POST FADER
05 00 02 3A	0aaaaaaa	AUX1 MTX4 SEND LEVEL
05 00 02 3B#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
05 00 02 3C	01 - 7F	AUX1 MTX4 SEND PAN L63,,,R63
05 00 02 3D	00	(Reserved)
05 00 02 3F	00	(Reserved)
05 00 02 40	00 - 01	AUX1 MTX5 SEND SWITCH OFF,ON
05 00 02 41	00 - 02	AUX1 MTX5 SEND POSITION PRE EQ, PRE FADER, POST FADER
05 00 02 42	0aaaaaaa	AUX1 MTX5 SEND LEVEL
05 00 02 43#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
05 00 02 44	01 - 7F	AUX1 MTX5 SEND PAN L63,,,R63
05 00 02 45	00	(Reserved)
05 00 02 47	00	(Reserved)
05 00 02 48	00 - 01	AUX1 MTX6 SEND SWITCH OFF,ON
05 00 02 49	00 - 02	AUX1 MTX6 SEND POSITION PRE EQ, PRE FADER, POST FADER
05 00 02 4A	0aaaaaaa	AUX1 MTX6 SEND LEVEL
05 00 02 4B#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
05 00 02 4C	01 - 7F	AUX1 MTX6 SEND PAN L63,,,R63
05 00 02 4D	00	(Reserved)
05 00 02 4F	00	(Reserved)
05 00 02 50	00 - 01	AUX1 MTX7 SEND SWITCH OFF,ON
05 00 02 51	00 - 02	AUX1 MTX7 SEND POSITION PRE EQ, PRE FADER, POST FADER
05 00 02 52	0aaaaaaa	AUX1 MTX7 SEND LEVEL
05 00 02 53#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
05 00 02 54	01 - 7F	AUX1 MTX7 SEND PAN L63,,,R63
05 00 02 55	00	(Reserved)
05 00 02 57	00	(Reserved)
05 00 02 58	00 - 01	AUX1 MTX8 SEND SWITCH OFF,ON
05 00 02 59	00 - 02	AUX1 MTX8 SEND POSITION PRE EQ, PRE FADER, POST FADER

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05 00 02 5A	0aaaaaaaa	AUX1 MTX8 SEND LEVEL
05 00 02 5B#	0bbbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
05 00 02 5C	01 - 7F	AUX1 MTX8 SEND PAN L63,,,R63
05 00 02 5D	00	(Reserved)
05 00 7F 7F	00	(Reserved)
05 01 00 00	00 -	AUX2 (similar to 05 00 00 00 - 05 00 7F 7F)
05 01 7F 7F	00 -	:
05 15 00 00	00 -	AUX16 (similar to 05 00 00 00 - 05 00 7F 7F)
05 15 7F 7F	00 -	:

●MAIN Channel Parameter

Start address	Data	Contents and remarks
06 00 00 00	20 - 7F	MAIN L NAME-1 (ASCII)
06 00 00 01#	20 - 7F	MAIN L NAME-2 (ASCII)
06 00 00 02#	20 - 7F	MAIN L NAME-3 (ASCII)
06 00 00 03#	20 - 7F	MAIN L NAME-4 (ASCII)
06 00 00 04#	20 - 7F	MAIN L NAME-5 (ASCII)
06 00 00 05#	20 - 7F	MAIN L NAME-6 (ASCII)
06 00 00 06	00 - 07	MAIN L NAME COLOR 0,,,7 = Navy,Blue,Brown,Red, Yellow, Green,Aqua,Purple
06 00 00 07	00	(Reserved)
06 00 00 09	00	(Reserved)
06 00 00 0A	00 - 08	MAIN L ATT -8,,,0 = -48.0,,,0dB (6dB Step)
06 00 00 0B	00	(Reserved)
06 00 00 0C	00 - 01	MAIN L MUTE OFF,ON
06 00 00 0D	00 - 01	MAIN L SOLO OFF,ON
06 00 00 0E	0aaaaaaaa	MAIN L FADER LEVEL
06 00 00 0F#	0bbbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 00 10	01 - 7F	MAIN L BALANCE L63,,,R63
06 00 00 11	00	(Reserved)
06 00 00 4F	00	(Reserved)
06 00 00 50	00 - 01	MAIN L EQ SWITCH OFF,ON
06 00 00 51	0aaaaaaaa	MAIN L EQ ATT
06 00 00 52#	0bbbbbbbb	-480,,,150 = -48.0,,,+15.0dB
06 00 00 53	0aaaaaaaa	MAIN L EQ LO GAIN
06 00 00 54#	0bbbbbbbb	-150,,,150 = -15.0,,,+15.0dB
06 00 00 55	0aaaaaaaa	MAIN L EQ LO FREQ 20Hz,,,1000Hz
06 00 00 56#	0bbbbbbbb	
06 00 00 57#	0ccccccc	
06 00 00 58	0aaaaaaaa	MAIN L EQ LO-MID GAIN
06 00 00 59#	0bbbbbbbb	-150,,,150 = -15.0,,,+15.0dB
06 00 00 5A	0aaaaaaaa	MAIN L EQ LO-MID FREQ 20Hz,,,20000Hz
06 00 00 5B#	0bbbbbbbb	
06 00 00 5C#	0ccccccc	
06 00 00 5D	0aaaaaaaa	MAIN L EQ LO-MID Q
06 00 00 5E#	0bbbbbbbb	36,,,1600 = 0.36,,,16.00
06 00 00 5F	0aaaaaaaa	MAIN L EQ HI-MID GAIN
06 00 00 60#	0bbbbbbbb	-150,,,150 = -15.0,,,+15.0dB
06 00 00 61	0aaaaaaaa	MAIN L EQ HI-MID FREQ 20Hz,,,20000Hz
06 00 00 62#	0bbbbbbbb	
06 00 00 63#	0ccccccc	
06 00 00 64	0aaaaaaaa	MAIN L EQ HI-MID Q
06 00 00 65#	0bbbbbbbb	36,,,1600 = 0.36,,,16.00
06 00 00 66	0aaaaaaaa	MAIN L EQ HI GAIN
06 00 00 67#	0bbbbbbbb	-150,,,150 = -15.0,,,+15.0dB
06 00 00 68	0aaaaaaaa	MAIN L EQ HI FREQ 1000Hz,,,20000Hz
06 00 00 69#	0bbbbbbbb	
06 00 00 6A#	0ccccccc	
06 00 00 6B	00	(Reserved)
06 00 00 6F	00	(Reserved)
06 00 00 70	00 - 01	MAIN L LIMITER SWITCH OFF,ON
06 00 00 71	0aaaaaaaa	MAIN L LIMITER THRESHOLD
06 00 00 72#	0bbbbbbbb	-400,,,0 = -40.0,,,0.0dB
06 00 00 73	00 - 09	MAIN L LIMITER KNEE HARD, SOFT1,,,SOFT9

06 00 00 74	0aaaaaaaa	MAIN L LIMITER ATTACK
06 00 00 75#	0bbbbbbbb	0,,,8000 = 0.0,,,800.0ms
06 00 00 76	0aaaaaaaa	MAIN L LIMITER RELEASE
06 00 00 77#	0bbbbbbbb	0,,,8000ms
06 00 00 78	00	(Reserved)
06 00 00 7F	00	(Reserved)
06 00 01 00	00 - 01	MAIN L AUX1 SEND SWITCH OFF,ON
06 00 01 01	00 - 02	MAIN L AUX1 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 01 02	0aaaaaaaa	MAIN L AUX1 SEND LEVEL
06 00 01 03#	0bbbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 01 04	01 - 7F	MAIN L AUX1 SEND PAN L63,,,R63
06 00 01 05	00 - 01	MAIN L AUX1 SEND PAN LINK OFF,ON
06 00 01 06	00	(Reserved)
06 00 01 07	00	(Reserved)
06 00 01 08	00 - 01	MAIN L AUX2 SEND SWITCH OFF,ON
06 00 01 09	00 - 02	MAIN L AUX2 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 01 0A	0aaaaaaaa	MAIN L AUX2 SEND LEVEL
06 00 01 0B#	0bbbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 01 0C	01 - 7F	MAIN L AUX2 SEND PAN L63,,,R63
06 00 01 0D	00 - 01	MAIN L AUX2 SEND PAN LINK OFF,ON
06 00 01 0E	00	(Reserved)
06 00 01 0F	00	(Reserved)
06 00 01 10	00 - 01	MAIN L AUX3 SEND SWITCH OFF,ON
06 00 01 11	00 - 02	MAIN L AUX3 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 01 12	0aaaaaaaa	MAIN L AUX3 SEND LEVEL
06 00 01 13#	0bbbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 01 14	01 - 7F	MAIN L AUX3 SEND PAN L63,,,R63
06 00 01 15	00 - 01	MAIN L AUX3 SEND PAN LINK OFF,ON
06 00 01 16	00	(Reserved)
06 00 01 17	00	(Reserved)
06 00 01 18	00 - 01	MAIN L AUX4 SEND SWITCH OFF,ON
06 00 01 19	00 - 02	MAIN L AUX4 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 01 1A	0aaaaaaaa	MAIN L AUX4 SEND LEVEL
06 00 01 1B#	0bbbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 01 1C	01 - 7F	MAIN L AUX4 SEND PAN L63,,,R63
06 00 01 1D	00 - 01	MAIN L AUX4 SEND PAN LINK OFF,ON
06 00 01 1E	00	(Reserved)
06 00 01 1F	00	(Reserved)
06 00 01 20	00 - 01	MAIN L AUX5 SEND SWITCH OFF,ON
06 00 01 21	00 - 02	MAIN L AUX5 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 01 22	0aaaaaaaa	MAIN L AUX5 SEND LEVEL
06 00 01 23#	0bbbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 01 24	01 - 7F	MAIN L AUX5 SEND PAN L63,,,R63
06 00 01 25	00 - 01	MAIN L AUX5 SEND PAN LINK OFF,ON
06 00 01 26	00	(Reserved)
06 00 01 27	00	(Reserved)
06 00 01 28	00 - 01	MAIN L AUX6 SEND SWITCH OFF,ON
06 00 01 29	00 - 02	MAIN L AUX6 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 01 2A	0aaaaaaaa	MAIN L AUX6 SEND LEVEL
06 00 01 2B#	0bbbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 01 2C	01 - 7F	MAIN L AUX6 SEND PAN L63,,,R63
06 00 01 2D	00 - 01	MAIN L AUX6 SEND PAN LINK OFF,ON
06 00 01 2E	00	(Reserved)
06 00 01 2F	00	(Reserved)
06 00 01 30	00 - 01	MAIN L AUX7 SEND SWITCH OFF,ON

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06 00 01 31	00 - 02	MAIN L AUX7 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 01 32	0aaaaaaa	MAIN L AUX7 SEND LEVEL
06 00 01 33#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 01 34	01 - 7F	MAIN L AUX7 SEND PAN L63,,,R63
06 00 01 35	00 - 01	MAIN L AUX7 SEND PAN LINK OFF,ON
06 00 01 36	00	(Reserved)
06 00 01 37	00	(Reserved)
06 00 01 38	00 - 01	MAIN L AUX8 SEND SWITCH OFF,ON
06 00 01 39	00 - 02	MAIN L AUX8 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 01 3A	0aaaaaaa	MAIN L AUX8 SEND LEVEL
06 00 01 3B#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 01 3C	01 - 7F	MAIN L AUX8 SEND PAN L63,,,R63
06 00 01 3D	00 - 01	MAIN L AUX8 SEND PAN LINK OFF,ON
06 00 01 3E	00	(Reserved)
06 00 01 3F	00	(Reserved)
06 00 01 40	00 - 01	MAIN L AUX9 SEND SWITCH OFF,ON
06 00 01 41	00 - 02	MAIN L AUX9 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 01 42	0aaaaaaa	MAIN L AUX9 SEND LEVEL
06 00 01 43#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 01 44	01 - 7F	MAIN L AUX9 SEND PAN L63,,,R63
06 00 01 45	00 - 01	MAIN L AUX9 SEND PAN LINK OFF,ON
06 00 01 46	00	(Reserved)
06 00 01 47	00	(Reserved)
06 00 01 48	00 - 01	MAIN L AUX10 SEND SWITCH OFF,ON
06 00 01 49	00 - 02	MAIN L AUX10 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 01 4A	0aaaaaaa	MAIN L AUX10 SEND LEVEL
06 00 01 4B#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 01 4C	01 - 7F	MAIN L AUX10 SEND PAN L63,,,R63
06 00 01 4D	00 - 01	MAIN L AUX10 SEND PAN LINK OFF,ON
06 00 01 4E	00	(Reserved)
06 00 01 4F	00	(Reserved)
06 00 01 50	00 - 01	MAIN L AUX11 SEND SWITCH OFF,ON
06 00 01 51	00 - 02	MAIN L AUX11 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 01 52	0aaaaaaa	MAIN L AUX11 SEND LEVEL
06 00 01 53#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 01 54	01 - 7F	MAIN L AUX11 SEND PAN L63,,,R63
06 00 01 55	00 - 01	MAIN L AUX11 SEND PAN LINK OFF,ON
06 00 01 56	00	(Reserved)
06 00 01 57	00	(Reserved)
06 00 01 58	00 - 01	MAIN L AUX12 SEND SWITCH OFF,ON
06 00 01 59	00 - 02	MAIN L AUX12 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 01 5A	0aaaaaaa	MAIN L AUX12 SEND LEVEL
06 00 01 5B#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 01 5C	01 - 7F	MAIN L AUX12 SEND PAN L63,,,R63
06 00 01 5D	00 - 01	MAIN L AUX12 SEND PAN LINK OFF,ON
06 00 01 5E	00	(Reserved)
06 00 01 5F	00	(Reserved)
06 00 01 60	00 - 01	MAIN L AUX13 SEND SWITCH OFF,ON
06 00 01 61	00 - 02	MAIN L AUX13 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 01 62	0aaaaaaa	MAIN L AUX13 SEND LEVEL
06 00 01 63#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 01 64	01 - 7F	MAIN L AUX13 SEND PAN L63,,,R63
06 00 01 65	00 - 01	MAIN L AUX13 SEND PAN LINK OFF,ON

06 00 01 66	00	(Reserved)
06 00 01 67	00	(Reserved)
06 00 01 68	00 - 01	MAIN L AUX14 SEND SWITCH OFF,ON
06 00 01 69	00 - 02	MAIN L AUX14 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 01 6A	0aaaaaaa	MAIN L AUX14 SEND LEVEL
06 00 01 6B#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 01 6C	01 - 7F	MAIN L AUX14 SEND PAN L63,,,R63
06 00 01 6D	00 - 01	MAIN L AUX14 SEND PAN LINK OFF,ON
06 00 01 6E	00	(Reserved)
06 00 01 6F	00	(Reserved)
06 00 01 70	00 - 01	MAIN L AUX15 SEND SWITCH OFF,ON
06 00 01 71	00 - 02	MAIN L AUX15 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 01 72	0aaaaaaa	MAIN L AUX15 SEND LEVEL
06 00 01 73#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 01 74	01 - 7F	MAIN L AUX15 SEND PAN L63,,,R63
06 00 01 75	00 - 01	MAIN L AUX15 SEND PAN LINK OFF,ON
06 00 01 76	00	(Reserved)
06 00 01 77	00	(Reserved)
06 00 01 78	00 - 01	MAIN L AUX16 SEND SWITCH OFF,ON
06 00 01 79	00 - 02	MAIN L AUX16 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 01 7A	0aaaaaaa	MAIN L AUX16 SEND LEVEL
06 00 01 7B#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 01 7C	01 - 7F	MAIN L AUX16 SEND PAN L63,,,R63
06 00 01 7D	00 - 01	MAIN L AUX16 SEND PAN LINK OFF,ON
06 00 01 7E	00	(Reserved)
:	:	:
06 00 02 1F	00	(Reserved)
06 00 02 20	00 - 01	MAIN L MTX1 SEND SWITCH OFF,ON
06 00 02 21	00 - 02	MAIN L MTX1 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 02 22	0aaaaaaa	MAIN L MTX1 SEND LEVEL
06 00 02 23#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 02 24	01 - 7F	MAIN L MTX1 SEND PAN L63,,,R63
06 00 02 25	00	(Reserved)
:	:	:
06 00 02 27	00	(Reserved)
06 00 02 28	00 - 01	MAIN L MTX2 SEND SWITCH OFF,ON
06 00 02 29	00 - 02	MAIN L MTX2 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 02 2A	0aaaaaaa	MAIN L MTX2 SEND LEVEL
06 00 02 2B#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 02 2C	01 - 7F	MAIN L MTX2 SEND PAN L63,,,R63
06 00 02 2D	00	(Reserved)
:	:	:
06 00 02 2F	00	(Reserved)
06 00 02 30	00 - 01	MAIN L MTX3 SEND SWITCH OFF,ON
06 00 02 31	00 - 02	MAIN L MTX3 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 02 32	0aaaaaaa	MAIN L MTX3 SEND LEVEL
06 00 02 33#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 02 34	01 - 7F	MAIN L MTX3 SEND PAN L63,,,R63
06 00 02 35	00	(Reserved)
:	:	:
06 00 02 37	00	(Reserved)
06 00 02 38	00 - 01	MAIN L MTX4 SEND SWITCH OFF,ON
06 00 02 39	00 - 02	MAIN L MTX4 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 02 3A	0aaaaaaa	MAIN L MTX4 SEND LEVEL
06 00 02 3B#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 02 3C	01 - 7F	MAIN L MTX4 SEND PAN L63,,,R63

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06 00 02 3D	00	(Reserved)
:	:	:
06 00 02 3F	00	(Reserved)
06 00 02 40	00 - 01	MAIN L MTX5 SEND SWITCH OFF,ON
06 00 02 41	00 - 02	MAIN L MTX5 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 02 42	0aaaaaaa	MAIN L MTX5 SEND LEVEL
06 00 02 43#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 02 44	01 - 7F	MAIN L MTX5 SEND PAN L63,,,R63
06 00 02 45	00	(Reserved)
:	:	:
06 00 02 47	00	(Reserved)
06 00 02 48	00 - 01	MAIN L MTX6 SEND SWITCH OFF,ON
06 00 02 49	00 - 02	MAIN L MTX6 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 02 4A	0aaaaaaa	MAIN L MTX6 SEND LEVEL
06 00 02 4B#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 02 4C	01 - 7F	MAIN L MTX6 SEND PAN L63,,,R63
06 00 02 4D	00	(Reserved)
:	:	:
06 00 02 4F	00	(Reserved)
06 00 02 50	00 - 01	MAIN L MTX7 SEND SWITCH OFF,ON
06 00 02 51	00 - 02	MAIN L MTX7 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 02 52	0aaaaaaa	MAIN L MTX7 SEND LEVEL
06 00 02 53#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 02 54	01 - 7F	MAIN L MTX7 SEND PAN L63,,,R63
06 00 02 55	00	(Reserved)
:	:	:
06 00 02 57	00	(Reserved)
06 00 02 58	00 - 01	MAIN L MTX8 SEND SWITCH OFF,ON
06 00 02 59	00 - 02	MAIN L MTX8 SEND POSITION PRE EQ, PRE FADER, POST FADER
06 00 02 5A	0aaaaaaa	MAIN L MTX8 SEND LEVEL
06 00 02 5B#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
06 00 02 5C	01 - 7F	MAIN L MTX8 SEND PAN L63,,,R63
06 00 02 5D	00	(Reserved)
:	:	:
06 00 7F 7F	00	(Reserved)
06 01 00 00	00 -	MAIN R (similar to 06 00 00 00 - 06 00 7F 7F)
:	:	:
06 01 7F 7F	00 -	

●Monitor Parameter

Start address	Data	Contents and remarks
07 00 00 00	0aaaaaaa	SOLO LEVEL
07 00 00 01#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
07 00 00 02	00 - 04	SOLO POSITION INPUT PFL, INPUT AFL, DCA AFL, OUTPUT AFL, MONITOR SOURCE
07 00 00 03	00 - 14	MONITOR SOURCE 0 = MAIN L/R OUT 2 = MAIN MONO OUT 3,,,18 = AUX1 OUT,,, AUX16 OUT 19 = REC L/R OUT 23,,,30 = MTX1 OUT,,, MTX8 OUT
07 00 00 04	0aaaaaaa	MONITOR LEVEL (*1)
07 00 00 05#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB

(*1) This is read-only.

●Mute Group Parameter

Start address	Data	Contents and remarks
08 00 00 00	20 - 7F	MUTE GROUP1 NAME-1 (ASCII)
08 00 00 01#	20 - 7F	MUTE GROUP1 NAME-2 (ASCII)
08 00 00 02#	20 - 7F	MUTE GROUP1 NAME-3 (ASCII)
08 00 00 03#	20 - 7F	MUTE GROUP1 NAME-4 (ASCII)
08 00 00 04#	20 - 7F	MUTE GROUP1 NAME-5 (ASCII)
08 00 00 05#	20 - 7F	MUTE GROUP1 NAME-6 (ASCII)
08 00 00 06	00 - 07	MUTE GROUP1 NAME COLOR 0,,,7 = Navy, Blue, Brown, Red, Yellow, Green, Aqua, Purple
08 00 00 07	00	(Reserved)
08 00 00 08	00 - 01	MUTE GROUP1 MASTER SWITCH OFF,ON
08 00 00 09	00	(Reserved)
:	:	:
08 00 00 0B	00	(Reserved)
08 00 00 0C	00 - 01	MUTE GROUP1 CH1 ASSIGN OFF,ON
08 00 00 0D	00 - 01	MUTE GROUP1 CH2 ASSIGN OFF,ON
08 00 00 0E	00 - 01	MUTE GROUP1 CH3 ASSIGN OFF,ON
08 00 00 0F	00 - 01	MUTE GROUP1 CH4 ASSIGN OFF,ON
08 00 00 10	00 - 01	MUTE GROUP1 CH5 ASSIGN OFF,ON
08 00 00 11	00 - 01	MUTE GROUP1 CH6 ASSIGN OFF,ON
08 00 00 12	00 - 01	MUTE GROUP1 CH7 ASSIGN OFF,ON
08 00 00 13	00 - 01	MUTE GROUP1 CH8 ASSIGN OFF,ON
08 00 00 14	00 - 01	MUTE GROUP1 CH9 ASSIGN OFF,ON
08 00 00 15	00 - 01	MUTE GROUP1 CH10 ASSIGN OFF,ON
08 00 00 16	00 - 01	MUTE GROUP1 CH11 ASSIGN OFF,ON
08 00 00 17	00 - 01	MUTE GROUP1 CH12 ASSIGN OFF,ON
08 00 00 18	00 - 01	MUTE GROUP1 CH13 ASSIGN OFF,ON
08 00 00 19	00 - 01	MUTE GROUP1 CH14 ASSIGN OFF,ON
08 00 00 1A	00 - 01	MUTE GROUP1 CH15 ASSIGN OFF,ON
08 00 00 1B	00 - 01	MUTE GROUP1 CH16 ASSIGN OFF,ON
08 00 00 1C	00 - 01	MUTE GROUP1 CH17 ASSIGN OFF,ON
08 00 00 1D	00 - 01	MUTE GROUP1 CH18 ASSIGN OFF,ON
08 00 00 1E	00 - 01	MUTE GROUP1 CH19 ASSIGN OFF,ON
08 00 00 1F	00 - 01	MUTE GROUP1 CH20 ASSIGN OFF,ON
08 00 00 20	00 - 01	MUTE GROUP1 CH21 ASSIGN OFF,ON
08 00 00 21	00 - 01	MUTE GROUP1 CH22 ASSIGN OFF,ON
08 00 00 22	00 - 01	MUTE GROUP1 CH23 ASSIGN OFF,ON
08 00 00 23	00 - 01	MUTE GROUP1 CH24 ASSIGN OFF,ON
08 00 00 24	00 - 01	MUTE GROUP1 CH25 ASSIGN OFF,ON
08 00 00 25	00 - 01	MUTE GROUP1 CH26 ASSIGN OFF,ON
08 00 00 26	00 - 01	MUTE GROUP1 CH27 ASSIGN OFF,ON
08 00 00 27	00 - 01	MUTE GROUP1 CH28 ASSIGN OFF,ON
08 00 00 28	00 - 01	MUTE GROUP1 CH29 ASSIGN OFF,ON
08 00 00 29	00 - 01	MUTE GROUP1 CH30 ASSIGN OFF,ON
08 00 00 2A	00 - 01	MUTE GROUP1 CH31 ASSIGN OFF,ON
08 00 00 2B	00 - 01	MUTE GROUP1 CH32 ASSIGN OFF,ON
08 00 00 2C	00 - 01	MUTE GROUP1 CH33 ASSIGN OFF,ON
08 00 00 2D	00 - 01	MUTE GROUP1 CH34 ASSIGN OFF,ON
08 00 00 2E	00 - 01	MUTE GROUP1 CH35 ASSIGN OFF,ON
08 00 00 2F	00 - 01	MUTE GROUP1 CH36 ASSIGN OFF,ON
08 00 00 30	00 - 01	MUTE GROUP1 CH37 ASSIGN OFF,ON
08 00 00 31	00 - 01	MUTE GROUP1 CH38 ASSIGN OFF,ON
08 00 00 32	00 - 01	MUTE GROUP1 CH39 ASSIGN OFF,ON
08 00 00 33	00 - 01	MUTE GROUP1 CH40 ASSIGN OFF,ON
08 00 00 34	00 - 01	MUTE GROUP1 CH41 ASSIGN OFF,ON
08 00 00 35	00 - 01	MUTE GROUP1 CH42 ASSIGN OFF,ON
08 00 00 36	00 - 01	MUTE GROUP1 CH43 ASSIGN OFF,ON
08 00 00 37	00 - 01	MUTE GROUP1 CH44 ASSIGN OFF,ON
08 00 00 38	00 - 01	MUTE GROUP1 CH45 ASSIGN OFF,ON

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08 00 00 39	00 - 01	MUTE GROUP1 CH46 ASSIGN	OFF,ON
08 00 00 3A	00 - 01	MUTE GROUP1 CH47 ASSIGN	OFF,ON
08 00 00 3B	00 - 01	MUTE GROUP1 CH48 ASSIGN	OFF,ON
08 00 00 3C	00 - 01	MUTE GROUP1 AUX1 ASSIGN	OFF,ON
08 00 00 3D	00 - 01	MUTE GROUP1 AUX2 ASSIGN	OFF,ON
08 00 00 3E	00 - 01	MUTE GROUP1 AUX3 ASSIGN	OFF,ON
08 00 00 3F	00 - 01	MUTE GROUP1 AUX4 ASSIGN	OFF,ON
08 00 00 40	00 - 01	MUTE GROUP1 AUX5 ASSIGN	OFF,ON
08 00 00 41	00 - 01	MUTE GROUP1 AUX6 ASSIGN	OFF,ON
08 00 00 42	00 - 01	MUTE GROUP1 AUX7 ASSIGN	OFF,ON
08 00 00 43	00 - 01	MUTE GROUP1 AUX8 ASSIGN	OFF,ON
08 00 00 44	00 - 01	MUTE GROUP1 AUX9 ASSIGN	OFF,ON
08 00 00 45	00 - 01	MUTE GROUP1 AUX10 ASSIGN	OFF,ON
08 00 00 46	00 - 01	MUTE GROUP1 AUX11 ASSIGN	OFF,ON
08 00 00 47	00 - 01	MUTE GROUP1 AUX12 ASSIGN	OFF,ON
08 00 00 48	00 - 01	MUTE GROUP1 AUX13 ASSIGN	OFF,ON
08 00 00 49	00 - 01	MUTE GROUP1 AUX14 ASSIGN	OFF,ON
08 00 00 4A	00 - 01	MUTE GROUP1 AUX15 ASSIGN	OFF,ON
08 00 00 4B	00 - 01	MUTE GROUP1 AUX16 ASSIGN	OFF,ON
08 00 00 4C	00 - 01	MUTE GROUP1 MAIN ASSIGN	OFF,ON
08 00 00 4D	00	(Reserved)	
08 00 00 4E	00 - 01	MUTE GROUP1 MTX1 ASSIGN	OFF,ON
08 00 00 4F	00 - 01	MUTE GROUP1 MTX2 ASSIGN	OFF,ON
08 00 00 50	00 - 01	MUTE GROUP1 MTX3 ASSIGN	OFF,ON
08 00 00 51	00 - 01	MUTE GROUP1 MTX4 ASSIGN	OFF,ON
08 00 00 52	00 - 01	MUTE GROUP1 MTX5 ASSIGN	OFF,ON
08 00 00 53	00 - 01	MUTE GROUP1 MTX6 ASSIGN	OFF,ON
08 00 00 54	00 - 01	MUTE GROUP1 MTX7 ASSIGN	OFF,ON
08 00 00 55	00 - 01	MUTE GROUP1 MTX8 ASSIGN	OFF,ON
08 00 00 56	00	(Reserved)	
08 00 7F 7F	00	(Reserved)	
08 01 00 00	00 -	MUTE GROUP2 (similar to 08 00 00 00 - 03 00 7F 7F)	
08 01 7F 7F	00 -		
08 07 00 00	00 -	MUTE GROUP8 (similar to 08 00 00 00 - 03 00 7F 7F)	
08 07 7F 7F	00 -		

●DCA Group Parameter

Start address	Data	Contents and remarks
09 00 00 00	20 - 7F	DCA GROUP1 NAME-1 (ASCII)
09 00 00 01#	20 - 7F	DCA GROUP1 NAME-2 (ASCII)
09 00 00 02#	20 - 7F	DCA GROUP1 NAME-3 (ASCII)
09 00 00 03#	20 - 7F	DCA GROUP1 NAME-4 (ASCII)
09 00 00 04#	20 - 7F	DCA GROUP1 NAME-5 (ASCII)
09 00 00 05#	20 - 7F	DCA GROUP1 NAME-6 (ASCII)
09 00 00 06	00 - 07	DCA GROUP1 NAME COLOR 0,,,7 = Navy,Blue,Brown,Red, Yellow, Green,Aqua, Purple
09 00 00 07	00	(Reserved)
09 00 00 08	00 - 01	DCA GROUP1 MUTE OFF,ON
09 00 00 09	00 - 01	DCA GROUP1 SOLO OFF,ON
09 00 00 0A	0aaaaaaa	DCA GROUP FADER LEVEL
09 00 00 0B#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
09 00 00 0C	00 - 01	DCA GROUP1 CH1 ASSIGN OFF,ON
09 00 00 0D	00 - 01	DCA GROUP1 CH2 ASSIGN OFF,ON
09 00 00 0E	00 - 01	DCA GROUP1 CH3 ASSIGN OFF,ON
09 00 00 0F	00 - 01	DCA GROUP1 CH4 ASSIGN OFF,ON
09 00 00 10	00 - 01	DCA GROUP1 CH5 ASSIGN OFF,ON

09 00 00 11	00 - 01	DCA GROUP1 CH6 ASSIGN	OFF,ON
09 00 00 12	00 - 01	DCA GROUP1 CH7 ASSIGN	OFF,ON
09 00 00 13	00 - 01	DCA GROUP1 CH8 ASSIGN	OFF,ON
09 00 00 14	00 - 01	DCA GROUP1 CH9 ASSIGN	OFF,ON
09 00 00 15	00 - 01	DCA GROUP1 CH10 ASSIGN	OFF,ON
09 00 00 16	00 - 01	DCA GROUP1 CH11 ASSIGN	OFF,ON
09 00 00 17	00 - 01	DCA GROUP1 CH12 ASSIGN	OFF,ON
09 00 00 18	00 - 01	DCA GROUP1 CH13 ASSIGN	OFF,ON
09 00 00 19	00 - 01	DCA GROUP1 CH14 ASSIGN	OFF,ON
09 00 00 1A	00 - 01	DCA GROUP1 CH15 ASSIGN	OFF,ON
09 00 00 1B	00 - 01	DCA GROUP1 CH16 ASSIGN	OFF,ON
09 00 00 1C	00 - 01	DCA GROUP1 CH17 ASSIGN	OFF,ON
09 00 00 1D	00 - 01	DCA GROUP1 CH18 ASSIGN	OFF,ON
09 00 00 1E	00 - 01	DCA GROUP1 CH19 ASSIGN	OFF,ON
09 00 00 1F	00 - 01	DCA GROUP1 CH20 ASSIGN	OFF,ON
09 00 00 20	00 - 01	DCA GROUP1 CH21 ASSIGN	OFF,ON
09 00 00 21	00 - 01	DCA GROUP1 CH22 ASSIGN	OFF,ON
09 00 00 22	00 - 01	DCA GROUP1 CH23 ASSIGN	OFF,ON
09 00 00 23	00 - 01	DCA GROUP1 CH24 ASSIGN	OFF,ON
09 00 00 24	00 - 01	DCA GROUP1 CH25 ASSIGN	OFF,ON
09 00 00 25	00 - 01	DCA GROUP1 CH26 ASSIGN	OFF,ON
09 00 00 26	00 - 01	DCA GROUP1 CH27 ASSIGN	OFF,ON
09 00 00 27	00 - 01	DCA GROUP1 CH28 ASSIGN	OFF,ON
09 00 00 28	00 - 01	DCA GROUP1 CH29 ASSIGN	OFF,ON
09 00 00 29	00 - 01	DCA GROUP1 CH30 ASSIGN	OFF,ON
09 00 00 2A	00 - 01	DCA GROUP1 CH31 ASSIGN	OFF,ON
09 00 00 2B	00 - 01	DCA GROUP1 CH32 ASSIGN	OFF,ON
09 00 00 2C	00 - 01	DCA GROUP1 CH33 ASSIGN	OFF,ON
09 00 00 2D	00 - 01	DCA GROUP1 CH34 ASSIGN	OFF,ON
09 00 00 2E	00 - 01	DCA GROUP1 CH35 ASSIGN	OFF,ON
09 00 00 2F	00 - 01	DCA GROUP1 CH36 ASSIGN	OFF,ON
09 00 00 30	00 - 01	DCA GROUP1 CH37 ASSIGN	OFF,ON
09 00 00 31	00 - 01	DCA GROUP1 CH38 ASSIGN	OFF,ON
09 00 00 32	00 - 01	DCA GROUP1 CH39 ASSIGN	OFF,ON
09 00 00 33	00 - 01	DCA GROUP1 CH40 ASSIGN	OFF,ON
09 00 00 34	00 - 01	DCA GROUP1 CH41 ASSIGN	OFF,ON
09 00 00 35	00 - 01	DCA GROUP1 CH42 ASSIGN	OFF,ON
09 00 00 36	00 - 01	DCA GROUP1 CH43 ASSIGN	OFF,ON
09 00 00 37	00 - 01	DCA GROUP1 CH44 ASSIGN	OFF,ON
09 00 00 38	00 - 01	DCA GROUP1 CH45 ASSIGN	OFF,ON
09 00 00 39	00 - 01	DCA GROUP1 CH46 ASSIGN	OFF,ON
09 00 00 3A	00 - 01	DCA GROUP1 CH47 ASSIGN	OFF,ON
09 00 00 3B	00 - 01	DCA GROUP1 CH48 ASSIGN	OFF,ON
09 00 00 3C	00 - 01	DCA GROUP1 AUX1 ASSIGN	OFF,ON
09 00 00 3D	00 - 01	DCA GROUP1 AUX2 ASSIGN	OFF,ON
09 00 00 3E	00 - 01	DCA GROUP1 AUX3 ASSIGN	OFF,ON
09 00 00 3F	00 - 01	DCA GROUP1 AUX4 ASSIGN	OFF,ON
09 00 00 40	00 - 01	DCA GROUP1 AUX5 ASSIGN	OFF,ON
09 00 00 41	00 - 01	DCA GROUP1 AUX6 ASSIGN	OFF,ON
09 00 00 42	00 - 01	DCA GROUP1 AUX7 ASSIGN	OFF,ON
09 00 00 43	00 - 01	DCA GROUP1 AUX8 ASSIGN	OFF,ON
09 00 00 44	00 - 01	DCA GROUP1 AUX9 ASSIGN	OFF,ON
09 00 00 45	00 - 01	DCA GROUP1 AUX10 ASSIGN	OFF,ON
09 00 00 46	00 - 01	DCA GROUP1 AUX11 ASSIGN	OFF,ON
09 00 00 47	00 - 01	DCA GROUP1 AUX12 ASSIGN	OFF,ON
09 00 00 48	00 - 01	DCA GROUP1 AUX13 ASSIGN	OFF,ON
09 00 00 49	00 - 01	DCA GROUP1 AUX14 ASSIGN	OFF,ON

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09 00 00 4A	00 - 01	DCA GROUP1 AUX15 ASSIGN	OFF,ON
09 00 00 4B	00 - 01	DCA GROUP1 AUX16 ASSIGN	OFF,ON
09 00 00 4C	00 - 01	DCA GROUP1 MAIN ASSIGN	OFF,ON
09 00 00 4D	00	(Reserved)	
09 00 00 4E	00 - 01	DCA GROUP1 MTX1 ASSIGN	OFF,ON
09 00 00 4F	00 - 01	DCA GROUP1 MTX2 ASSIGN	OFF,ON
09 00 00 50	00 - 01	DCA GROUP1 MTX3 ASSIGN	OFF,ON
09 00 00 51	00 - 01	DCA GROUP1 MTX4 ASSIGN	OFF,ON
09 00 00 52	00 - 01	DCA GROUP1 MTX5 ASSIGN	OFF,ON
09 00 00 53	00 - 01	DCA GROUP1 MTX6 ASSIGN	OFF,ON
09 00 00 54	00 - 01	DCA GROUP1 MTX7 ASSIGN	OFF,ON
09 00 00 55	00 - 01	DCA GROUP1 MTX8 ASSIGN	OFF,ON
09 00 00 56	00	(Reserved)	
09 00 7F 7F	00	(Reserved)	
09 01 00 00	00 -	DCA GROUP2 (similar to 09 00 00 00 - 03 00 7F 7F)	
09 01 7F 7F	00 -	:	
09 07 00 00	00 -	DCA GROUP8 (similar to 09 00 00 00 - 03 00 7F 7F)	
09 07 7F 7F	00 -	:	

●Output Patchbay Parameter

Start address	Data	Contents and remarks
0A 00 00 00	00 - 67	REAC A OUT1 SOURCE 0,1 = MAIN L OUT, MAIN R OUT 2 = MAIN MONO OUT 3,,,18 = AUX1 OUT,,, AUX16 OUT 19,20 = REC L OUT, REC R OUT 21,22 = MONITOR L OUT, MONITOR R OUT 23,,,30 = MTX1 OUT,,, MTX8 OUT 31,,,78 = CH1 OUT,,, CH48 OUT 79 = OSCILLATOR OUT 80 = TALKBACK OUT 127 = NONE
0A 00 00 01	00	(Reserved)
0A 00 7F 7F	00	(Reserved)
0A 01 00 00	00 -	REAC A OUT2 (similar to 0A 00 00 00 - 0A 00 7F 7F)
0A 01 7F 7F	00 -	:
0A 27 00 00	00 -	REAC A OUT40 (similar to 0A 00 00 00 - 0A 00 7F 7F)
0A 27 7F 7F	00 -	:
0A 28 00 00	00 -	REAC B OUT1 (similar to 0A 00 00 00 - 0A 00 7F 7F)
0A 28 7F 7F	00 -	:
0A 4F 00 00	00 -	REAC B OUT40 (similar to 0A 00 00 00 - 0A 00 7F 7F)
0A 4F 7F 7F	00 -	:
0A 50 00 00	00 -	CONSOLE OUT1 (similar to 0A 00 00 00 - 0A 00 7F 7F)
0A 50 7F 7F	00 -	:
0A 57 00 00	00 -	CONSOLE OUT8 (similar to 0A 00 00 00 - 0A 00 7F 7F)
0A 57 7F 7F	00 -	:
0A 58 00 00	00 -	DIGITAL OUT L (similar to 0A 00 00 00 - 0A 00 7F 7F)
0A 58 7F 7F	00 -	:
0A 59 00 00	00 -	DIGITAL OUT R (similar to 0A 00 00 00 - 0A 00 7F 7F)
0A 59 7F 7F	00 -	:

●Effect Parameter

Start address	Data	Contents and remarks
0B 00 00 00	00 - 01	FX1 LINK OFF,ON
0B 00 00 01	00	(Reserved)
0B 00 00 02	00 - 01	FX1 BYPASS L OFF,ON
0B 00 00 03	00 - 01	FX1 BYPASS R OFF,ON
0B 00 00 04	00 - 7F	FX1 INSERT/SOURCE L 0,,,47 = CH1 INS,,,CH48 INS 48,49 = MAIN L INS,MAIN R INS 50,,,65 = AUX1 INS,,,AUX16 INS 66,,,81 = AUX1 OUT,,,AUX16 OUT 82,,,89 = MTX1 OUT,,,MTX8 OUT 127 = NONE
0B 00 00 05	00 - 7F	FX1 INSERT/SOURCE R 0,,,47 = CH1 INS,,,CH48 INS 48,49 = MAIN L INS,MAIN R INS 50,,,65 = AUX1 INS,,,AUX16 INS 66,,,81 = AUX1 OUT,,,AUX16 OUT 82,,,89 = MTX1 OUT,,,MTX8 OUT 127 = NONE
0B 00 00 06	00	(Reserved)
0B 00 00 0F	00	(Reserved)
0B 00 00 10	20 - 7F	FX1 NAME-1 (ASCII)
0B 00 00 11#	20 - 7F	FX1 NAME-2 (ASCII)
0B 00 00 12#	20 - 7F	FX1 NAME-3 (ASCII)
0B 00 00 13#	20 - 7F	FX1 NAME-4 (ASCII)
0B 00 00 14#	20 - 7F	FX1 NAME-5 (ASCII)
0B 00 00 15#	20 - 7F	FX1 NAME-6 (ASCII)
0B 00 00 16#	20 - 7F	FX1 NAME-7 (ASCII)
0B 00 00 17#	20 - 7F	FX1 NAME-8 (ASCII)
0B 00 00 18#	20 - 7F	FX1 NAME-9 (ASCII)
0B 00 00 19#	20 - 7F	FX1 NAME-10 (ASCII)
0B 00 00 1A#	20 - 7F	FX1 NAME-11 (ASCII)
0B 00 00 1B#	20 - 7F	FX1 NAME-12 (ASCII)
0B 00 00 1C	0aaaaaaa	FX1 ALGORITHM TYPE
0B 00 00 1D#	0bbbbbbb	aaaaaaabbbbbbb = 0: Dual GEQ 1: Stereo Reverb 2: Reverb with Gate 3: Dual Delay 4: Long Delay 5: Multi Tap Delay 6: X Mod Delay 7: Stereo Chorus 8: Stereo Flanger 9: Stereo Phaser 10: Dual Pitch Shift 11: Dual Ch Strip
0B 00 00 1E	00	(Reserved)
0B 00 00 1F	00	(Reserved)
0B 00 00 20	00 -	FX1 Parameter Area (See Below)
0B 00 7F 7F	00 -	:
0B 01 00 00	00 -	FX2 (similar to 0B 00 00 00 - 0B 00 7F 7F)
0B 01 7F 7F	00 -	:
0B 03 00 00	00 -	FX4 (similar to 0B 00 00 00 - 0B 00 7F 7F)
0B 03 7F 7F	00 -	:

(*) A meaning of the parameter area changes correspond with the top of parameter of EFFECT TYPE. See the following tables. The address shows at FX1.

○Dual GEQ

Start address	Data	Contents and remarks
0B 00 00 20	0aaaaaaa	GEQ A: ATT
0B 00 00 21#	0bbbbbbb	-420,,,150 = -42.0,,,15.0dB
0B 00 00 22	0aaaaaaa	GEQ A: 20Hz LEVEL
0B 00 00 23#	0bbbbbbb	-150,,,150 = -15.0,,,15.0dB
0B 00 00 24	0aaaaaaa	GEQ A: 25Hz LEVEL
0B 00 00 25#	0bbbbbbb	-150,,,150 = -15.0,,,15.0dB
0B 00 00 26	0aaaaaaa	GEQ A: 32Hz LEVEL
0B 00 00 27#	0bbbbbbb	-150,,,150 = -15.0,,,15.0dB
0B 00 00 28	0aaaaaaa	GEQ A: 40Hz LEVEL
0B 00 00 29#	0bbbbbbb	-150,,,150 = -15.0,,,15.0dB
0B 00 00 2A	0aaaaaaa	GEQ A: 50Hz LEVEL
0B 00 00 2B#	0bbbbbbb	-150,,,150 = -15.0,,,15.0dB
0B 00 00 2C	0aaaaaaa	GEQ A: 63Hz LEVEL
0B 00 00 2D#	0bbbbbbb	-150,,,150 = -15.0,,,15.0dB

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0B 00 00 2E	0aaaaaaaa	GEQ A: 80Hz LEVEL	
0B 00 00 2F#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 30	0aaaaaaaa	GEQ A: 100Hz LEVEL	
0B 00 00 31#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 32	0aaaaaaaa	GEQ A: 125Hz LEVEL	
0B 00 00 33#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 34	0aaaaaaaa	GEQ A: 160Hz LEVEL	
0B 00 00 35#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 36	0aaaaaaaa	GEQ A: 200Hz LEVEL	
0B 00 00 37#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 38	0aaaaaaaa	GEQ A: 250Hz LEVEL	
0B 00 00 39#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 3A	0aaaaaaaa	GEQ A: 315Hz LEVEL	
0B 00 00 3B#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 3C	0aaaaaaaa	GEQ A: 400Hz LEVEL	
0B 00 00 3D#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 3E	0aaaaaaaa	GEQ A: 500Hz LEVEL	
0B 00 00 3F#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 40	0aaaaaaaa	GEQ A: 630Hz LEVEL	
0B 00 00 41#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 42	0aaaaaaaa	GEQ A: 800Hz LEVEL	
0B 00 00 43#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 44	0aaaaaaaa	GEQ A: 1.00kHz LEVEL	
0B 00 00 45#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 46	0aaaaaaaa	GEQ A: 1.25kHz LEVEL	
0B 00 00 47#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 48	0aaaaaaaa	GEQ A: 1.60kHz LEVEL	
0B 00 00 49#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 4A	0aaaaaaaa	GEQ A: 2.00kHz LEVEL	
0B 00 00 4B#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 4C	0aaaaaaaa	GEQ A: 2.50kHz LEVEL	
0B 00 00 4D#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 4E	0aaaaaaaa	GEQ A: 3.15kHz LEVEL	
0B 00 00 4F#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 50	0aaaaaaaa	GEQ A: 4.00kHz LEVEL	
0B 00 00 51#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 52	0aaaaaaaa	GEQ A: 5.00kHz LEVEL	
0B 00 00 53#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 54	0aaaaaaaa	GEQ A: 6.30kHz LEVEL	
0B 00 00 55#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 56	0aaaaaaaa	GEQ A: 8.00kHz LEVEL	
0B 00 00 57#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 58	0aaaaaaaa	GEQ A: 10.0kHz LEVEL	
0B 00 00 59#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 5A	0aaaaaaaa	GEQ A: 12.5kHz LEVEL	
0B 00 00 5B#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 5C	0aaaaaaaa	GEQ A: 16.0kHz LEVEL	
0B 00 00 5D#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 5E	0aaaaaaaa	GEQ A: 20.0kHz LEVEL	
0B 00 00 5F#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 60	0aaaaaaaa	DELAY A: SWITCH	
0B 00 00 61#	0bbbbbbbb	0,1 = OFF,ON	
0B 00 00 62	00	(Reserved)	
:	:	:	
0B 00 00 63	00	(Reserved)	
0B 00 00 64	0aaaaaaaa	DELAY A: FB	
0B 00 00 65#	0bbbbbbbb	0,,,100	
0B 00 00 66	0aaaaaaaa	DELAY A: LO FREQ DAMP GAIN	
0B 00 00 67#	0bbbbbbbb	-360,,,0 = -36.0,,,0.0dB	
0B 00 00 68	0aaaaaaaa	DELAY A: LO FREQ DAMP FREQ (*3)	
0B 00 00 69#	0bbbbbbbb	20,,,100 = 20,,,2000Hz	
0B 00 00 6A	0aaaaaaaa	DELAY A: HI FREQ DAMP GAIN	
0B 00 00 6B#	0bbbbbbbb	-360,,,0 = -36.0,,,0.0dB	
0B 00 00 6C	0aaaaaaaa	DELAY A: HI FREQ DAMP FREQ (*3)	
0B 00 00 6D#	0bbbbbbbb	60,,,140 = 200,,,2000Hz	
0B 00 00 6E	0aaaaaaaa	DELAY A: WET POSITION	
0B 00 00 6F#	0bbbbbbbb	0,1 = PRE DPF,POST DPF	
0B 00 00 70	0aaaaaaaa	DELAY A: WET LEVEL (*1)	
0B 00 00 71#	0bbbbbbbb	0,,,127 = -Inf,,,6.0dB	
0B 00 00 72	0aaaaaaaa	DELAY A: DRY LEVEL (*1)	
0B 00 00 73#	0bbbbbbbb	0,,,127 = -Inf,,,6.0dB	
0B 00 00 74	0aaaaaaaa	GEQ B: ATT	
0B 00 00 75#	0bbbbbbbb	-420,,,150 = -42.0,,,15.0dB	
0B 00 00 76	0aaaaaaaa	GEQ B: 20Hz LEVEL	
0B 00 00 77#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	

0B 00 00 78	0aaaaaaaa	GEQ B: 25Hz LEVEL	
0B 00 00 79#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 7A	0aaaaaaaa	GEQ B: 32Hz LEVEL	
0B 00 00 7B#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 7C	0aaaaaaaa	GEQ B: 40Hz LEVEL	
0B 00 00 7D#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 00 7E	0aaaaaaaa	GEQ B: 50Hz LEVEL	
0B 00 00 7F#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 00	0aaaaaaaa	GEQ B: 63Hz LEVEL	
0B 00 01 01#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 02	0aaaaaaaa	GEQ B: 80Hz LEVEL	
0B 00 01 03#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 04	0aaaaaaaa	GEQ B: 100Hz LEVEL	
0B 00 01 05#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 06	0aaaaaaaa	GEQ B: 125Hz LEVEL	
0B 00 01 07#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 08	0aaaaaaaa	GEQ B: 160Hz LEVEL	
0B 00 01 09#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 0A	0aaaaaaaa	GEQ B: 200Hz LEVEL	
0B 00 01 0B#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 0C	0aaaaaaaa	GEQ B: 250Hz LEVEL	
0B 00 01 0D#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 0E	0aaaaaaaa	GEQ B: 315Hz LEVEL	
0B 00 01 0F#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 10	0aaaaaaaa	GEQ B: 400Hz LEVEL	
0B 00 01 11#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 12	0aaaaaaaa	GEQ B: 500Hz LEVEL	
0B 00 01 13#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 14	0aaaaaaaa	GEQ B: 630Hz LEVEL	
0B 00 01 15#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 16	0aaaaaaaa	GEQ B: 800Hz LEVEL	
0B 00 01 17#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 18	0aaaaaaaa	GEQ B: 1.00kHz LEVEL	
0B 00 01 19#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 1A	0aaaaaaaa	GEQ B: 1.25kHz LEVEL	
0B 00 01 1B#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 1C	0aaaaaaaa	GEQ B: 1.60kHz LEVEL	
0B 00 01 1D#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 1E	0aaaaaaaa	GEQ B: 2.00kHz LEVEL	
0B 00 01 1F#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 20	0aaaaaaaa	GEQ B: 2.50kHz LEVEL	
0B 00 01 21#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 22	0aaaaaaaa	GEQ B: 3.15kHz LEVEL	
0B 00 01 23#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 24	0aaaaaaaa	GEQ B: 4.00kHz LEVEL	
0B 00 01 25#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 26	0aaaaaaaa	GEQ B: 5.00kHz LEVEL	
0B 00 01 27#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 28	0aaaaaaaa	GEQ B: 6.30kHz LEVEL	
0B 00 01 29#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 2A	0aaaaaaaa	GEQ B: 8.00kHz LEVEL	
0B 00 01 2B#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 2C	0aaaaaaaa	GEQ B: 10.0kHz LEVEL	
0B 00 01 2D#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 2E	0aaaaaaaa	GEQ B: 12.5kHz LEVEL	
0B 00 01 2F#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 30	0aaaaaaaa	GEQ B: 16.0kHz LEVEL	
0B 00 01 31#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 32	0aaaaaaaa	GEQ B: 20.0kHz LEVEL	
0B 00 01 33#	0bbbbbbbb	-150,,,150 = -15.0,,,15.0dB	
0B 00 01 34	0aaaaaaaa	DELAY B: SWITCH	
0B 00 01 35#	0bbbbbbbb	0,1 = OFF,ON	
0B 00 01 36	00	(Reserved)	
:	:	:	
0B 00 00 37	00	(Reserved)	
0B 00 01 38	0aaaaaaaa	DELAY B: FB	
0B 00 01 39#	0bbbbbbbb	0,,,100	
0B 00 01 3A	0aaaaaaaa	DELAY B: LO FREQ DAMP GAIN	
0B 00 01 3B#	0bbbbbbbb	-360,,,0 = -36.0,,,0.0dB	
0B 00 01 3C	0aaaaaaaa	DELAY B: LO FREQ DAMP FREQ (*3)	
0B 00 01 3D#	0bbbbbbbb	20,,,100 = 20,,,2000Hz	
0B 00 01 3E	0aaaaaaaa	DELAY B: HI FREQ DAMP GAIN	
0B 00 01 3F#	0bbbbbbbb	-360,,,0 = -36.0,,,0.0dB	
0B 00 01 40	0aaaaaaaa	DELAY B: HI FREQ DAMP FREQ (*3)	
0B 00 01 41#	0bbbbbbbb	60,,,140 = 200,,,2000Hz	

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0B 00 01 42	0aaaaaaaa	DELAY B: WET POSITION	
0B 00 01 43#	0bbbbbbb		0,1 = PRE DPF, POST DPF
0B 00 01 44	0aaaaaaaa	DELAY B: WET LEVEL (*1)	
0B 00 01 45#	0bbbbbbb		0,,127 = -Inf,,,6.0dB
0B 00 01 46	0aaaaaaaa	DELAY B: DRY LEVEL (*1)	
0B 00 01 47#	0bbbbbbb		0,,127 = -Inf,,,6.0dB
0B 00 01 48	0aaaaaaaa	DELAY A: UNIT	
0B 00 01 49#	0bbbbbbb		0: 0.1ms 1: Note 2: 0.1m 3: Feet 4: 24fps 5: 25fps 6: 29.97fps 7: 30fps
0B 00 01 4A	0aaaaaaaa	DELAY A: TIME	
0B 00 01 4B#	0bbbbbbb		0,,13500000us
0B 00 01 4C#	0ccccccc		0ddddd
0B 00 01 4E	0aaaaaaaa	DELAY A: NOTE (*7)	
0B 00 00 4F#	0bbbbbbb		0,,20 = OFF,,,1/1
0B 00 01 50	0aaaaaaaa	DELAY B: UNIT	
0B 00 01 51#	0bbbbbbb		0: 0.1ms 1: Note 2: 0.1m 3: Feet 4: 24fps 5: 25fps 6: 29.97fps 7: 30fps
0B 00 01 52	0aaaaaaaa	DELAY B: TIME	
0B 00 01 53#	0bbbbbbb		0,,13500000us
0B 00 01 54#	0ccccccc		0ddddd
0B 00 01 56	0aaaaaaaa	DELAY B: NOTE (*7)	
0B 00 00 57#	0bbbbbbb		0,,20 = OFF,,,1/1

St.REVERB (Stereo Reverb)

Start address	Data	Contents and remarks
0B 00 00 20	0aaaaaaaa	REVERB: TYPE
0B 00 00 21#	0bbbbbbb	0: ROOM1 1: ROOM2 2: HALL1 3: HALL2 4: PLATE
0B 00 00 22	0aaaaaaaa	REVERB: SIZE
0B 00 00 23#	0bbbbbbb	5,,,40m
0B 00 00 24	0aaaaaaaa	REVERB: TIME
0B 00 00 25#	0bbbbbbb	1,,320 = 0.1,,32.0s
0B 00 00 26	0aaaaaaaa	REVERB: PRE DELAY
0B 00 00 27#	0bbbbbbb	0,,200 = 0,,200ms
0B 00 00 28	0aaaaaaaa	REVERB: ER LEVEL (*1)
0B 00 00 29#	0bbbbbbb	0,,100
0B 00 00 2A	0aaaaaaaa	REVERB: DIFFUSION
0B 00 00 2B#	0bbbbbbb	0,,100
0B 00 00 2C	0aaaaaaaa	REVERB: DENSITY
0B 00 00 2D#	0bbbbbbb	0,,100
0B 00 00 2E	0aaaaaaaa	REVERB: LO FREQ DAMP GAIN
0B 00 00 2F#	0bbbbbbb	-360,,,0 = -36.0,,,0.0dB
0B 00 00 30	0aaaaaaaa	REVERB: LO FREQ DAMP FREQ (*3)
0B 00 00 31#	0bbbbbbb	20,,,100 = 20,,,2000Hz
0B 00 00 32	0aaaaaaaa	REVERB: HI FREQ DAMP GAIN
0B 00 00 33#	0bbbbbbb	-360,,,0 = -36.0,,,0.0dB
0B 00 00 34	0aaaaaaaa	REVERB: HI FREQ DAMP FREQ (*3)
0B 00 00 35#	0bbbbbbb	60,,,140 = 200,,,2000Hz
0B 00 00 36	0aaaaaaaa	REVERB: HI CUT (*3)
0B 00 00 37#	0bbbbbbb	60,,,140 = 200,,,2000Hz
0B 00 00 38	0aaaaaaaa	REVERB: WET LEVEL (*1)
0B 00 00 39#	0bbbbbbb	0,,127 = -Inf,,,6.0dB
0B 00 00 3A	0aaaaaaaa	REVERB: DRY LEVEL (*1)
0B 00 00 3B#	0bbbbbbb	0,,127 = -Inf,,,6.0dB
0B 00 00 3C	0aaaaaaaa	REVERB: LR BALANCE
0B 00 00 3D#	0bbbbbbb	1,,127 = L63,,,R63
0B 00 00 3E	0aaaaaaaa	EQ: SWITCH
0B 00 00 3F#	0bbbbbbb	0,1 = OFF,ON
0B 00 00 40	0aaaaaaaa	EQ: ATT
0B 00 00 41#	0bbbbbbb	-420,,,60 = -42.0,,,6.0dB

0B 00 00 42	0aaaaaaaa	EQ: LO TYPE	
0B 00 00 43#	0bbbbbbb		0: PEAKING 1: LO SHELIVING 2: HI SHELIVING 3: LO PASS 1st 4: HI PASS 1st 5: LO PASS 2nd 6: HI PASS 2nd 7: BAND PASS 8: BAND ELIMINATION 9: THRU
0B 00 00 44	0aaaaaaaa	EQ: LO GAIN	
0B 00 00 45#	0bbbbbbb		-150,,,150 = -15.0,,,15.0dB
0B 00 00 46	0aaaaaaaa	EQ: LO FREQ (*3)	
0B 00 00 47#	0bbbbbbb		20,,,140 = 20,,,2000Hz
0B 00 00 48	0aaaaaaaa	EQ: LO Q (*4)	
0B 00 00 49#	0bbbbbbb		30,,,96 = 0.36,,,16.00
0B 00 00 4A	0aaaaaaaa	EQ: LO-MID TYPE	
0B 00 00 4B#	0bbbbbbb		0: PEAKING 1: LO SHELIVING 2: HI SHELIVING 3: LO PASS 1st 4: HI PASS 1st 5: LO PASS 2nd 6: HI PASS 2nd 7: BAND PASS 8: BAND ELIMINATION 9: THRU
0B 00 00 4C	0aaaaaaaa	EQ: LO-MID GAIN	
0B 00 00 4D#	0bbbbbbb		-150,,,150 = -15.0,,,15.0dB
0B 00 00 4E	0aaaaaaaa	EQ: LO-MID FREQ (*3)	
0B 00 00 4F#	0bbbbbbb		20,,,140 = 20,,,2000Hz
0B 00 00 50	0aaaaaaaa	EQ: LO-MID Q (*4)	
0B 00 00 51#	0bbbbbbb		30,,,96 = 0.36,,,16.00
0B 00 00 52	0aaaaaaaa	EQ: HI-MID TYPE	
0B 00 00 53#	0bbbbbbb		0: PEAKING 1: LO SHELIVING 2: HI SHELIVING 3: LO PASS 1st 4: HI PASS 1st 5: LO PASS 2nd 6: HI PASS 2nd 7: BAND PASS 8: BAND ELIMINATION 9: THRU
0B 00 00 54	0aaaaaaaa	EQ: HI-MID GAIN	
0B 00 00 55#	0bbbbbbb		-150,,,150 = -15.0,,,15.0dB
0B 00 00 56	0aaaaaaaa	EQ: HI-MID FREQ (*3)	
0B 00 00 57#	0bbbbbbb		20,,,140 = 20,,,2000Hz
0B 00 00 58	0aaaaaaaa	EQ: HI-MID Q (*4)	
0B 00 00 59#	0bbbbbbb		30,,,96 = 0.36,,,16.00
0B 00 00 5A	0aaaaaaaa	EQ: HI TYPE	
0B 00 00 5B#	0bbbbbbb		0: PEAKING 1: LO SHELIVING 2: HI SHELIVING 3: LO PASS 1st 4: HI PASS 1st 5: LO PASS 2nd 6: HI PASS 2nd 7: BAND PASS 8: BAND ELIMINATION 9: THRU
0B 00 00 5C	0aaaaaaaa	EQ: HI GAIN	
0B 00 00 5D#	0bbbbbbb		-150,,,150 = -15.0,,,15.0dB
0B 00 00 5E	0aaaaaaaa	EQ: HI FREQ (*3)	
0B 00 00 5F#	0bbbbbbb		20,,,140 = 20,,,2000Hz
0B 00 00 60	0aaaaaaaa	EQ: HI Q (*4)	
0B 00 00 61#	0bbbbbbb		30,,,96 = 0.36,,,16.00

REVERB+GATE

Start address	Data	Contents and remarks
0B 00 00 20	0aaaaaaaa	REVERB: SIZE
0B 00 00 21#	0bbbbbbb	5,,,40m
0B 00 00 22	0aaaaaaaa	REVERB: TIME
0B 00 00 23#	0bbbbbbb	1,,320 = 0.1,,32.0s
0B 00 00 24	0aaaaaaaa	REVERB: PRE DELAY
0B 00 00 25#	0bbbbbbb	0,,200 = 0,,200ms
0B 00 00 26	0aaaaaaaa	REVERB: ER LEVEL (*1)
0B 00 00 27#	0bbbbbbb	0,,100
0B 00 00 28	0aaaaaaaa	REVERB: DIFFUSION
0B 00 00 29#	0bbbbbbb	0,,100
0B 00 00 2A	0aaaaaaaa	REVERB: DENSITY
0B 00 00 2B#	0bbbbbbb	0,,100
0B 00 00 2C	0aaaaaaaa	REVERB: LO FREQ DAMP GAIN
0B 00 00 2D#	0bbbbbbb	-360,,,0 = -36.0,,,0.0dB

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0B 00 00 2E	0aaaaaaaa	REVERB: LO FREQ DAMP FREQ (*3)
0B 00 00 2F#	0bbbbbbb	20,,,100 = 20,,,2000Hz
0B 00 00 30	0aaaaaaaa	REVERB: HI FREQ DAMP GAIN
0B 00 00 31#	0bbbbbbb	-360,,,0 = -36.0,,,0.0dB
0B 00 00 32	0aaaaaaaa	REVERB: HI FREQ DAMP FREQ (*3)
0B 00 00 33#	0bbbbbbb	60,,,140 = 200,,,2000Hz
0B 00 00 34	0aaaaaaaa	REVERB: HI CUT (*3)
0B 00 00 35#	0bbbbbbb	60,,,140 = 200,,,2000Hz
0B 00 00 36	0aaaaaaaa	REVERB: WET LEVEL (*1)
0B 00 00 37#	0bbbbbbb	0,,,127 = -Inf,,,6.0dB
0B 00 00 38	0aaaaaaaa	REVERB: DRY LEVEL (*1)
0B 00 00 39#	0bbbbbbb	0,,,127 = -Inf,,,6.0dB
0B 00 00 3A	0aaaaaaaa	EQ: SWITCH
0B 00 00 3B#	0bbbbbbb	0,1 = OFF,ON
0B 00 00 3C	0aaaaaaaa	EQ: ATT
0B 00 00 3D#	0bbbbbbb	-420,,,60 = -42.0,,,6.0dB
0B 00 00 3E	0aaaaaaaa	EQ: LO TYPE
0B 00 00 3F#	0bbbbbbb	0: PEAKING 1: LO SHELIVING 2: HI SHELIVING 3: LO PASS 1st 4: HI PASS 1st 5: LO PASS 2nd 6: HI PASS 2nd 7: BAND PASS 8: BAND ELIMINATION 9: THRU
0B 00 00 40	0aaaaaaaa	EQ: LO GAIN
0B 00 00 41#	0bbbbbbb	-150,,,150 = -15.0,,,15.0dB
0B 00 00 42	0aaaaaaaa	EQ: LO FREQ (*3)
0B 00 00 43#	0bbbbbbb	20,,,140 = 20,,,2000Hz
0B 00 00 44	0aaaaaaaa	EQ: LO Q (*4)
0B 00 00 45#	0bbbbbbb	30,,,96 = 0.36,,,16.00
0B 00 00 46	0aaaaaaaa	EQ: LO-MID TYPE
0B 00 00 47#	0bbbbbbb	0: PEAKING 1: LO SHELIVING 2: HI SHELIVING 3: LO PASS 1st 4: HI PASS 1st 5: LO PASS 2nd 6: HI PASS 2nd 7: BAND PASS 8: BAND ELIMINATION 9: THRU
0B 00 00 48	0aaaaaaaa	EQ: LO-MID GAIN
0B 00 00 49#	0bbbbbbb	-150,,,150 = -15.0,,,15.0dB
0B 00 00 4A	0aaaaaaaa	EQ: LO-MID FREQ (*3)
0B 00 00 4B#	0bbbbbbb	20,,,140 = 20,,,2000Hz
0B 00 00 4C	0aaaaaaaa	EQ: LO-MID Q (*4)
0B 00 00 4D#	0bbbbbbb	30,,,96 = 0.36,,,16.00
0B 00 00 4E	0aaaaaaaa	EQ: HI-MID TYPE
0B 00 00 4F#	0bbbbbbb	0: PEAKING 1: LO SHELIVING 2: HI SHELIVING 3: LO PASS 1st 4: HI PASS 1st 5: LO PASS 2nd 6: HI PASS 2nd 7: BAND PASS 8: BAND ELIMINATION 9: THRU
0B 00 00 50	0aaaaaaaa	EQ: HI-MID GAIN
0B 00 00 51#	0bbbbbbb	-150,,,150 = -15.0,,,15.0dB
0B 00 00 52	0aaaaaaaa	EQ: HI-MID FREQ (*3)
0B 00 00 53#	0bbbbbbb	20,,,140 = 20,,,2000Hz
0B 00 00 54	0aaaaaaaa	EQ: HI-MID Q (*4)
0B 00 00 55#	0bbbbbbb	30,,,96 = 0.36,,,16.00
0B 00 00 56	0aaaaaaaa	EQ: HI TYPE
0B 00 00 57#	0bbbbbbb	0: PEAKING 1: LO SHELIVING 2: HI SHELIVING 3: LO PASS 1st 4: HI PASS 1st 5: LO PASS 2nd 6: HI PASS 2nd 7: BAND PASS 8: BAND ELIMINATION 9: THRU
0B 00 00 58	0aaaaaaaa	EQ: HI GAIN
0B 00 00 59#	0bbbbbbb	-150,,,150 = -15.0,,,15.0dB
0B 00 00 5A	0aaaaaaaa	EQ: HI FREQ (*3)
0B 00 00 5B#	0bbbbbbb	20,,,140 = 20,,,2000Hz
0B 00 00 5C	0aaaaaaaa	EQ: HI Q (*4)
0B 00 00 5D#	0bbbbbbb	30,,,96 = 0.36,,,16.00
0B 00 00 5E	0aaaaaaaa	GATE: SWITCH
0B 00 00 5F#	0bbbbbbb	0,1 = OFF,ON
0B 00 00 60	0aaaaaaaa	GATE: MODE
0B 00 00 61#	0bbbbbbb	0 = GATE 1 = DUCKING

0B 00 00 62	0aaaaaaaa	GATE: THRESHOLD (*1)
0B 00 00 63#	0bbbbbbb	1,,,100 = -80.0,,,0.0dB
0B 00 00 64	0aaaaaaaa	GATE: RANGE (*1)
0B 00 00 65#	0bbbbbbb	0,,,100 = -Inf,,,0.0dB
0B 00 00 66	0aaaaaaaa	GATE: ATTACK TIME (*2)
0B 00 00 67#	0bbbbbbb	0,,,124 = 0.0,,,800.0ms
0B 00 00 68	0aaaaaaaa	GATE: RELEASE TIME (*2)
0B 00 00 69#	0bbbbbbb	0,,,124 = 0,,,8000ms
0B 00 00 6A	0aaaaaaaa	GATE: HOLD TIME (*2)
0B 00 00 6B#	0bbbbbbb	0,,,124 = 0,,,8000ms

ODELAYx2

Start address	Data	Contents and remarks
0B 00 00 20	00	(Reserved)
:	:	:
0B 00 00 21	00	(Reserved)
:	:	:
0B 00 00 22	0aaaaaaaa	DELAY A: FB
0B 00 00 23#	0bbbbbbb	0,,,100
0B 00 00 24	0aaaaaaaa	DELAY A: LO FREQ DAMP GAIN
0B 00 00 25#	0bbbbbbb	-360,,,0 = -36.0,,,0.0dB
0B 00 00 26	0aaaaaaaa	DELAY A: LO FREQ DAMP FREQ (*3)
0B 00 00 27#	0bbbbbbb	20,,,100 = 20,,,2000Hz
0B 00 00 28	0aaaaaaaa	DELAY A: HI FREQ DAMP GAIN
0B 00 00 29#	0bbbbbbb	-360,,,0 = -36.0,,,0.0dB
0B 00 00 2A	0aaaaaaaa	DELAY A: HI FREQ DAMP FREQ (*3)
0B 00 00 2B#	0bbbbbbb	60,,,140 = 200,,,2000Hz
0B 00 00 2C	0aaaaaaaa	DELAY A: WET POSITION
0B 00 00 2D#	0bbbbbbb	0,1 = PRE DPF,POST DPF
0B 00 00 2E	0aaaaaaaa	DELAY A: WET LEVEL (*1)
0B 00 00 2F#	0bbbbbbb	0,,,127 = -Inf,,,6.0dB
0B 00 00 30	0aaaaaaaa	DELAY A: DRY LEVEL (*1)
0B 00 00 31#	0bbbbbbb	0,,,127 = -Inf,,,6.0dB
0B 00 00 32	00	(Reserved)
:	:	:
0B 00 00 33	00	(Reserved)
:	:	:
0B 00 00 34	0aaaaaaaa	DELAY B: FB
0B 00 00 35#	0bbbbbbb	0,,,100
0B 00 00 36	0aaaaaaaa	DELAY B: LO FREQ DAMP GAIN
0B 00 00 37#	0bbbbbbb	-360,,,0 = -36.0,,,0.0dB
0B 00 00 38	0aaaaaaaa	DELAY B: LO FREQ DAMP FREQ (*3)
0B 00 00 39#	0bbbbbbb	20,,,100 = 20,,,2000Hz
0B 00 00 3A	0aaaaaaaa	DELAY B: HI FREQ DAMP GAIN
0B 00 00 3B#	0bbbbbbb	-360,,,0 = -36.0,,,0.0dB
0B 00 00 3C	0aaaaaaaa	DELAY B: HI FREQ DAMP FREQ (*3)
0B 00 00 3D#	0bbbbbbb	60,,,140 = 200,,,2000Hz
0B 00 00 3E	0aaaaaaaa	DELAY B: WET POSITION
0B 00 00 3F#	0bbbbbbb	0,1 = PRE DPF,POST DPF
0B 00 00 40	0aaaaaaaa	DELAY B: WET LEVEL (*1)
0B 00 00 41#	0bbbbbbb	0,,,127 = -Inf,,,6.0dB
0B 00 00 42	0aaaaaaaa	DELAY B: DRY LEVEL (*1)
0B 00 00 43#	0bbbbbbb	0,,,127 = -Inf,,,6.0dB
0B 00 00 44	0aaaaaaaa	DELAY A: UNIT
0B 00 00 45#	0bbbbbbb	0: 0.1ms 1: Note 2: 0.1m 3: Feet 4: 24fps 5: 25fps 6: 29.97fps 7: 30fps
0B 00 00 46	0aaaaaaaa	DELAY A: TIME
0B 00 00 47#	0bbbbbbb	0,,,13500000us
0B 00 00 48#	0ccccccc	
0B 00 00 49#	0ddddddd	
0B 00 00 4A	0aaaaaaaa	DELAY A: NOTE (*7)
0B 00 00 4B#	0bbbbbbb	0,,,20 = OFF,,,1/1
0B 00 00 4C	0aaaaaaaa	DELAY B: UNIT
0B 00 00 4D#	0bbbbbbb	0: 0.1ms 1: Note 2: 0.1m 3: Feet 4: 24fps 5: 25fps 6: 29.97fps 7: 30fps
0B 00 00 4E	0aaaaaaaa	DELAY B: TIME
0B 00 00 4F#	0bbbbbbb	0,,,13500000us
0B 00 00 50#	0ccccccc	
0B 00 00 51#	0ddddddd	
0B 00 00 52	0aaaaaaaa	DELAY B: NOTE (*7)
0B 00 00 53#	0bbbbbbb	0,,,20 = OFF,,,1/1

M-400 MIDI Implementation

LONG DELAY

Start address	Data	Contents and remarks
0B 00 00 20	00	(Reserved)
0B 00 00 25	00	(Reserved)
0B 00 00 26	0aaaaaaa	DELAY: FEEDBACK LEVEL
0B 00 00 27#	0bbbbbbb	0,,100
0B 00 00 28	0aaaaaaa	DELAY: LO FREQ DAMP GAIN
0B 00 00 29#	0bbbbbbb	-360,,0 = -36.0,,0.0dB
0B 00 00 2A	0aaaaaaa	DELAY: LO FREQ DAMP FREQ (*3)
0B 00 00 2B#	0bbbbbbb	20,,100 = 20,,2000Hz
0B 00 00 2C	0aaaaaaa	DELAY: HI FREQ DAMP GAIN
0B 00 00 2D#	0bbbbbbb	-360,,0 = -36.0,,0.0dB
0B 00 00 2E	0aaaaaaa	DELAY: HI FREQ DAMP FREQ (*3)
0B 00 00 2F#	0bbbbbbb	60,,140 = 200,,20000Hz
0B 00 00 30	0aaaaaaa	DELAY: WET LEVEL (*1)
0B 00 00 31#	0bbbbbbb	0,,127 = -Inf,,6.0dB
0B 00 00 32	0aaaaaaa	DELAY: DRY LEVEL (*1)
0B 00 00 33#	0bbbbbbb	0,,127 = -Inf,,6.0dB
0B 00 00 34	0aaaaaaa	DELAY: UNIT
0B 00 00 35#	0bbbbbbb	0: 0.1ms 1: Note 2: 0.1m 3: Feet 4: 24fps 5: 25fps 6: 29.97fps 7: 30fps
0B 00 00 36	0aaaaaaa	DELAY: TIME L
0B 00 00 37#	0bbbbbbb	0,,27000000us
0B 00 00 38#	0ccccccc	
0B 00 00 39#	0ddddddd	
0B 00 00 3A	0aaaaaaa	DELAY: TIME R
0B 00 00 3B#	0bbbbbbb	0,,27000000us
0B 00 00 3C#	0ccccccc	
0B 00 00 3D#	0ddddddd	
0B 00 00 3E	0aaaaaaa	DELAY: NOTE L (*7)
0B 00 00 3F#	0bbbbbbb	0,,20 = OFF,,1/1
0B 00 00 40	0aaaaaaa	DELAY: NOTE R (*7)
0B 00 00 41#	0bbbbbbb	0,,20 = OFF,,1/1
0B 00 00 42	0aaaaaaa	DELAY: FEEDBACK TIME
0B 00 00 43#	0bbbbbbb	0,,27000000us
0B 00 00 44#	0ccccccc	
0B 00 00 45#	0ddddddd	
0B 00 00 46	0aaaaaaa	DELAY: FEEDBACK NOTE (*7)
0B 00 00 47#	0bbbbbbb	0,,20 = OFF,,1/1

OM.TAP DELAY (Multi Tap Delay)

Start address	Data	Contents and remarks
0B 00 00 20	00	(Reserved)
0B 00 00 37	00	(Reserved)
0B 00 00 38	0aaaaaaa	DELAY: LEVEL 1 (*1)
0B 00 00 39#	0bbbbbbb	0,,127 = -Inf,,6.0dB
0B 00 00 3A	0aaaaaaa	DELAY: LEVEL 2 (*1)
0B 00 00 3B#	0bbbbbbb	0,,127 = -Inf,,6.0dB
0B 00 00 3C	0aaaaaaa	DELAY: LEVEL 3 (*1)
0B 00 00 3D#	0bbbbbbb	0,,127 = -Inf,,6.0dB
0B 00 00 3E	0aaaaaaa	DELAY: LEVEL 4 (*1)
0B 00 00 3F#	0bbbbbbb	0,,127 = -Inf,,6.0dB
0B 00 00 40	0aaaaaaa	DELAY: LEVEL 5 (*1)
0B 00 00 41#	0bbbbbbb	0,,127 = -Inf,,6.0dB
0B 00 00 42	0aaaaaaa	DELAY: LEVEL 6 (*1)
0B 00 00 43#	0bbbbbbb	0,,127 = -Inf,,6.0dB
0B 00 00 44	0aaaaaaa	DELAY: LEVEL 7 (*1)
0B 00 00 45#	0bbbbbbb	0,,127 = -Inf,,6.0dB
0B 00 00 46	0aaaaaaa	DELAY: LEVEL 8 (*1)
0B 00 00 47	0bbbbbbb	0,,127 = -Inf,,6.0dB
0B 00 00 48	0aaaaaaa	DELAY: LEVEL 9 (*1)
0B 00 00 49#	0bbbbbbb	0,,127 = -Inf,,6.0dB
0B 00 00 4A	0aaaaaaa	DELAY: LEVEL 10 (*1)
0B 00 00 4B#	0bbbbbbb	0,,127 = -Inf,,6.0dB
0B 00 00 4C	0aaaaaaa	DELAY: LEVEL 11 (*1)
0B 00 00 4D#	0bbbbbbb	0,,127 = -Inf,,6.0dB
0B 00 00 4E	0aaaaaaa	DELAY: LEVEL 12 (*1)
0B 00 00 4F#	0bbbbbbb	0,,127 = -Inf,,6.0dB
0B 00 00 50	0aaaaaaa	DELAY: PAN1
0B 00 00 51#	0bbbbbbb	1,,127 = L63,,R63

0B 00 00 52	0aaaaaaa	DELAY: PAN2
0B 00 00 53#	0bbbbbbb	1,,127 = L63,,R63
0B 00 00 54	0aaaaaaa	DELAY: PAN3
0B 00 00 55#	0bbbbbbb	1,,127 = L63,,R63
0B 00 00 56	0aaaaaaa	DELAY: PAN4
0B 00 00 57#	0bbbbbbb	1,,127 = L63,,R63
0B 00 00 58	0aaaaaaa	DELAY: PAN5
0B 00 00 59#	0bbbbbbb	1,,127 = L63,,R63
0B 00 00 5A	0aaaaaaa	DELAY: PAN6
0B 00 00 5B#	0bbbbbbb	1,,127 = L63,,R63
0B 00 00 5C	0aaaaaaa	DELAY: PAN7
0B 00 00 5D#	0bbbbbbb	1,,127 = L63,,R63
0B 00 00 5E	0aaaaaaa	DELAY: PAN8
0B 00 00 5F#	0bbbbbbb	1,,127 = L63,,R63
0B 00 00 60	0aaaaaaa	DELAY: PAN9
0B 00 00 61#	0bbbbbbb	1,,127 = L63,,R63
0B 00 00 62	0aaaaaaa	DELAY: PAN10
0B 00 00 63#	0bbbbbbb	1,,127 = L63,,R63
0B 00 00 64	0aaaaaaa	DELAY: PAN11
0B 00 00 65#	0bbbbbbb	1,,127 = L63,,R63
0B 00 00 66	0aaaaaaa	DELAY: PAN12
0B 00 00 67#	0bbbbbbb	1,,127 = L63,,R63
0B 00 00 68	00	(Reserved)
0B 00 00 69	00	(Reserved)
0B 00 00 6A	0aaaaaaa	DELAY: FEEDBACK LEVEL
0B 00 00 6B#	0bbbbbbb	0,,100
0B 00 00 6C	0aaaaaaa	DELAY: LO FREQ DAMP GAIN
0B 00 00 6D#	0bbbbbbb	-360,,0 = -36.0,,0.0dB
0B 00 00 6E	0aaaaaaa	DELAY: LO FREQ DAMP FREQ (*3)
0B 00 00 6F#	0bbbbbbb	20,,100 = 20,,2000Hz
0B 00 00 70	0aaaaaaa	DELAY: HI FREQ DAMP GAIN
0B 00 00 71#	0bbbbbbb	-360,,0 = -36.0,,0.0dB
0B 00 00 72	0aaaaaaa	DELAY: HI FREQ DAMP FREQ (*3)
0B 00 00 73#	0bbbbbbb	60,,140 = 200,,20000Hz
0B 00 00 74	0aaaaaaa	DELAY: WET LEVEL (*1)
0B 00 00 75#	0bbbbbbb	0,,127 = -Inf,,6.0dB
0B 00 00 76	0aaaaaaa	DELAY: DRY LEVEL (*1)
0B 00 00 77#	0bbbbbbb	0,,127 = -Inf,,6.0dB
0B 00 00 78	0aaaaaaa	DELAY: UNIT
0B 00 00 79#	0bbbbbbb	0: 0.1ms 1: Note 2: 0.1m 3: Feet 4: 24fps 5: 25fps 6: 29.97fps 7: 30fps
0B 00 00 7A	0aaaaaaa	DELAY: TIME 1
0B 00 00 7B#	0bbbbbbb	0,,27000000us
0B 00 00 7C#	0ccccccc	
0B 00 00 7D#	0ddddddd	
0B 00 00 7E	0aaaaaaa	DELAY: TIME 2
0B 00 00 7F#	0bbbbbbb	0,,27000000us
0B 00 01 00#	0ccccccc	
0B 00 01 01#	0ddddddd	
0B 00 01 02	0aaaaaaa	DELAY: TIME 3
0B 00 01 03#	0bbbbbbb	0,,27000000us
0B 00 01 04#	0ccccccc	
0B 00 01 05#	0ddddddd	
0B 00 01 06	0aaaaaaa	DELAY: TIME 4
0B 00 01 07#	0bbbbbbb	0,,27000000us
0B 00 01 08#	0ccccccc	
0B 00 01 09#	0ddddddd	
0B 00 01 0A	0aaaaaaa	DELAY: TIME 5
0B 00 01 0B#	0bbbbbbb	0,,27000000us
0B 00 01 0C#	0ccccccc	
0B 00 01 0D#	0ddddddd	
0B 00 01 0E	0aaaaaaa	DELAY: TIME 6
0B 00 01 0F#	0bbbbbbb	0,,27000000us
0B 00 01 10#	0ccccccc	
0B 00 01 11#	0ddddddd	
0B 00 01 12	0aaaaaaa	DELAY: TIME 7
0B 00 01 13#	0bbbbbbb	0,,27000000us
0B 00 01 14#	0ccccccc	
0B 00 01 15#	0ddddddd	
0B 00 01 16	0aaaaaaa	DELAY: TIME 8
0B 00 01 17#	0bbbbbbb	0,,27000000us
0B 00 01 18#	0ccccccc	
0B 00 01 19#	0ddddddd	
0B 00 01 1A	0aaaaaaa	DELAY: TIME 9
0B 00 01 1B#	0bbbbbbb	0,,27000000us
0B 00 01 1C#	0ccccccc	
0B 00 01 1D#	0ddddddd	

0B 00 01 1E#	0aaaaaaaa	DELAY: TIME 10	
0B 00 01 1F#	0bbbbbbb		0,,,27000000us
0B 00 01 20#	0ccccccc		
0B 00 01 21#	0ddddddd		
0B 00 01 22	0aaaaaaaa	DELAY: TIME 11	
0B 00 01 23#	0bbbbbbb		0,,,27000000us
0B 00 01 24#	0ccccccc		
0B 00 01 25#	0ddddddd		
0B 00 01 26	0aaaaaaaa	DELAY: TIME 12	
0B 00 01 27#	0bbbbbbb		0,,,27000000us
0B 00 01 28#	0ccccccc		
0B 00 01 29#	0ddddddd		
0B 00 01 2A	0aaaaaaaa	DELAY: NOTE 1 (*7)	
0B 00 01 2B#	0bbbbbbb		0,,,20 = OFF,,,1/1
0B 00 01 2C	0aaaaaaaa	DELAY: NOTE 2 (*7)	
0B 00 01 2D#	0bbbbbbb		0,,,20 = OFF,,,1/1
0B 00 01 2E	0aaaaaaaa	DELAY: NOTE 3 (*7)	
0B 00 01 2F#	0bbbbbbb		0,,,20 = OFF,,,1/1
0B 00 01 30	0aaaaaaaa	DELAY: NOTE 4 (*7)	
0B 00 01 31#	0bbbbbbb		0,,,20 = OFF,,,1/1
0B 00 01 32	0aaaaaaaa	DELAY: NOTE 5 (*7)	
0B 00 01 33#	0bbbbbbb		0,,,20 = OFF,,,1/1
0B 00 01 34	0aaaaaaaa	DELAY: NOTE 6 (*7)	
0B 00 01 35#	0bbbbbbb		0,,,20 = OFF,,,1/1
0B 00 01 36	0aaaaaaaa	DELAY: NOTE 7 (*7)	
0B 00 01 37#	0bbbbbbb		0,,,20 = OFF,,,1/1
0B 00 01 38	0aaaaaaaa	DELAY: NOTE 8 (*7)	
0B 00 01 39#	0bbbbbbb		0,,,20 = OFF,,,1/1
0B 00 01 3A	0aaaaaaaa	DELAY: NOTE 9 (*7)	
0B 00 01 3B#	0bbbbbbb		0,,,20 = OFF,,,1/1
0B 00 01 3C	0aaaaaaaa	DELAY: NOTE 10 (*7)	
0B 00 01 3D#	0bbbbbbb		0,,,20 = OFF,,,1/1
0B 00 01 3E	0aaaaaaaa	DELAY: NOTE 11 (*7)	
0B 00 01 3F#	0bbbbbbb		0,,,20 = OFF,,,1/1
0B 00 01 40	0aaaaaaaa	DELAY: NOTE 12 (*7)	
0B 00 01 41#	0bbbbbbb		0,,,20 = OFF,,,1/1
0B 00 01 42	0aaaaaaaa	DELAY: FEEDBACK TIME	
0B 00 01 43#	0bbbbbbb		0,,,27000000us
0B 00 01 44#	0ccccccc		
0B 00 01 45#	0ddddddd		
0B 00 01 46	0aaaaaaaa	DELAY: FEEDBACK NOTE (*7)	
0B 00 01 47#	0bbbbbbb		0,,,20 = OFF,,,1/1

OX.MOD DELAY (Cross-modulation Delay)

Start address	Data	Contents and remarks
0B 00 00 20	0aaaaaaaa	DELAY: MODULATION WAVE
0B 00 00 21#	0bbbbbbb	0 = SIN 1 = SQR 2 = EXP+ 3 = EXP-
0B 00 00 22	0aaaaaaaa	DELAY: MODULATION RATE
0B 00 00 23#	0bbbbbbb	1,,,100 = 0.1,,,10.0Hz
0B 00 00 24	0aaaaaaaa	DELAY: MODULATION DEPTH
0B 00 00 25#	0bbbbbbb	0,,,100
0B 00 00 26	0aaaaaaaa	DELAY: MODULATION PHASE SHIFT
0B 00 00 27#	0bbbbbbb	-180,,,180deg
0B 00 00 28	00	(Reserved)
:	:	
0B 00 00 2B	00	(Reserved)
0B 00 00 2C	0aaaaaaaa	DELAY: FEEDBACK LEVEL
0B 00 00 2D#	0bbbbbbb	0,,,100
0B 00 00 2E	0aaaaaaaa	DELAY: CROSS FEEDBACK LEVEL
0B 00 00 2F#	0bbbbbbb	0,,,100
0B 00 00 30	0aaaaaaaa	DELAY: LO FREQ DAMP GAIN
0B 00 00 31#	0bbbbbbb	-360,,,0 = -36.0,,,0.0dB
0B 00 00 32	0aaaaaaaa	DELAY: LO FREQ DAMP FREQ (*3)
0B 00 00 33#	0bbbbbbb	20,,,100 = 20,,,2000Hz
0B 00 00 34	0aaaaaaaa	DELAY: HI FREQ DAMP GAIN
0B 00 00 35#	0bbbbbbb	-360,,,0 = -36.0,,,0.0dB
0B 00 00 36	0aaaaaaaa	DELAY: HI FREQ DAMP FREQ (*3)
0B 00 00 37#	0bbbbbbb	60,,,140 = 200,,,20000Hz
0B 00 00 38	0aaaaaaaa	DELAY: WET POSITION
0B 00 00 39#	0bbbbbbb	0,1 = PRE DPF,POST DPF
0B 00 00 3A	0aaaaaaaa	DELAY: WET LEVEL (*1)
0B 00 00 3B#	0bbbbbbb	0,,,127 = -Inf,,,6.0dB
0B 00 00 3C	0aaaaaaaa	DELAY: DRY LEVEL (*1)
0B 00 00 3D#	0bbbbbbb	0,,,127 = -Inf,,,6.0dB

0B 00 00 3E	0aaaaaaaa	DELAY: UNIT	
0B 00 00 3F#	0bbbbbbb		0: 0.1ms 1: Note 2: 0.1m 3: Feet 4: 24fps 5: 25fps 6: 29.97fps 7: 30fps
0B 00 00 40	0aaaaaaaa	DELAY: TIME L	
0B 00 00 41#	0bbbbbbb		0,,,10000000us
0B 00 00 42#	0ccccccc		
0B 00 00 43#	0ddddddd		
0B 00 00 44	0aaaaaaaa	DELAY: TIME R	
0B 00 00 45#	0bbbbbbb		0,,,10000000us
0B 00 00 46#	0ccccccc		
0B 00 00 47#	0ddddddd		
0B 00 00 48	0aaaaaaaa	DELAY: NOTE L (*7)	
0B 00 00 49#	0bbbbbbb		0,,,20 = OFF,,,1/1
0B 00 00 4A	0aaaaaaaa	DELAY: NOTE R (*7)	
0B 00 00 4B#	0bbbbbbb		0,,,20 = OFF,,,1/1

OSt.CHORUS (Stereo Chorus)

Start address	Data	Contents and remarks
0B 00 00 20	0aaaaaaaa	CHORUS: RATE
0B 00 00 21#	0bbbbbbb	1,,,100 = 0.1,,,10.0Hz
0B 00 00 22	0aaaaaaaa	CHORUS: DEPTH
0B 00 00 23#	0bbbbbbb	0,,,100
0B 00 00 24	0aaaaaaaa	CHORUS: PRE DELAY
0B 00 00 25#	0bbbbbbb	0,,,100ms
0B 00 00 26	0aaaaaaaa	CHORUS: CROSS MIX LEVEL
0B 00 00 27#	0bbbbbbb	-100,,,100
0B 00 00 28	0aaaaaaaa	CHORUS: LEVEL
0B 00 00 29#	0bbbbbbb	0,,,100
0B 00 00 2A	0aaaaaaaa	CHORUS: DIRECT SWITCH
0B 00 00 2B#	0bbbbbbb	0,1 = OFF,ON
0B 00 00 2C	0aaaaaaaa	CHORUS: EFFECT SWITCH
0B 00 00 2D#	0bbbbbbb	0,1 = OFF,ON

OSt.FLANGER (Stereo Flanger)

Start address	Data	Contents and remarks
0B 00 00 20	0aaaaaaaa	FLANGER: RATE (*6)
0B 00 00 21#	0bbbbbbb	1,,,88 = 0.01,,,10.0Hz
0B 00 00 22	0aaaaaaaa	FLANGER: DEPTH
0B 00 00 23#	0bbbbbbb	0,,,100
0B 00 00 24	0aaaaaaaa	FLANGER: MANUAL
0B 00 00 25#	0bbbbbbb	0,,,100
0B 00 00 26	0aaaaaaaa	FLANGER: LFO PHASE SHIFT
0B 00 00 27#	0bbbbbbb	-180,,,180deg
0B 00 00 28	0aaaaaaaa	FLANGER: FEEDBACK LEVEL
0B 00 00 29#	0bbbbbbb	-100,,,100
0B 00 00 2A	0aaaaaaaa	FLANGER: CROSS FEEDBACK LEVEL
0B 00 00 2B#	0bbbbbbb	-100,,,100
0B 00 00 2C	0aaaaaaaa	FLANGER: LEVEL
0B 00 00 2D#	0bbbbbbb	0,,,100
0B 00 00 2E	0aaaaaaaa	FLANGER: DIRECT SWITCH
0B 00 00 2F#	0bbbbbbb	0,1 = OFF,ON
0B 00 00 30	0aaaaaaaa	FLANGER: EFFECT SWITCH
0B 00 00 31#	0bbbbbbb	0,1 = OFF,ON

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St.PHASER (Stereo Phaser)

Start address	Data	Contents and remarks
0B 00 00 20 0B 00 00 21#	0aaaaaaa 0bbbbbbb	PHASER: RATE (*6) 1,,88 = 0.01,,10.0Hz
0B 00 00 22 0B 00 00 23#	0aaaaaaa 0bbbbbbb	PHASER: DEPTH 0,,100
0B 00 00 24 0B 00 00 25#	0aaaaaaa 0bbbbbbb	PHASER: MANUAL 0,,100
0B 00 00 26 0B 00 00 27#	0aaaaaaa 0bbbbbbb	PHASER: LFO PHASE SHIFT -180,,180deg
0B 00 00 28 0B 00 00 29#	0aaaaaaa 0bbbbbbb	PHASER: FEEDBACK LEVEL -100,,100
0B 00 00 2A 0B 00 00 2B#	0aaaaaaa 0bbbbbbb	PHASER: CROSS FEEDBACK LEVEL -100,,100
0B 00 00 2C 0B 00 00 2D#	0aaaaaaa 0bbbbbbb	PHASER: LEVEL 0,,100
0B 00 00 2E 0B 00 00 2F#	0aaaaaaa 0bbbbbbb	PHASER: MODE 0 = 4STAGE 1 = 8STAGE
0B 00 00 30 0B 00 00 31#	0aaaaaaa 0bbbbbbb	PHASER: DIRECT SWITCH 0,1 = OFF,ON
0B 00 00 32 0B 00 00 33#	0aaaaaaa 0bbbbbbb	PHASER: EFFECT SWITCH 0,1 = OFF,ON

OP.SHIFTERx2 (Pitch Shifter x2)

Start address	Data	Contents and remarks
0B 00 00 20 0B 00 00 21#	0aaaaaaa 0bbbbbbb	PITCH SHIFTER A: MODE 0 = MONO VOICE 1 = MONO INST 2 = POLY FAST 3 = POLY MID 4 = POLY SLOW
0B 00 00 22 0B 00 00 23#	0aaaaaaa 0bbbbbbb	PITCH SHIFTER A: COURSE PITCH -12,,12semitone
0B 00 00 24 0B 00 00 25#	0aaaaaaa 0bbbbbbb	PITCH SHIFTER A: FINE PITCH -100,,100cent
0B 00 00 26 0B 00 00 27#	0aaaaaaa 0bbbbbbb	PITCH SHIFTER A: WET LEVEL (*1) 0,,127 = -Inf,,6.0dB
0B 00 00 28 0B 00 00 29#	0aaaaaaa 0bbbbbbb	PITCH SHIFTER A: DRY LEVEL (*1) 0,,127 = -Inf,,6.0dB
0B 00 00 2A 0B 00 00 2B#	0aaaaaaa 0bbbbbbb	PITCH SHIFTER B: MODE 0 = MONO VOICE 1 = MONO INST 2 = POLY FAST 3 = POLY MID 4 = POLY SLOW
0B 00 00 2C 0B 00 00 2D#	0aaaaaaa 0bbbbbbb	PITCH SHIFTER B: COURSE PITCH -12,,12semitone
0B 00 00 2E 0B 00 00 2F#	0aaaaaaa 0bbbbbbb	PITCH SHIFTER B: FINE PITCH -100,,100cent
0B 00 00 30 0B 00 00 31#	0aaaaaaa 0bbbbbbb	PITCH SHIFTER B: WET LEVEL (*1) 0,,127 = -Inf,,6.0dB
0B 00 00 32 0B 00 00 33#	0aaaaaaa 0bbbbbbb	PITCH SHIFTER B: DRY LEVEL (*1) 0,,127 = -Inf,,6.0dB

OCH STRIPx2 (Channel Strip x2)

Start address	Data	Contents and remarks
0B 00 00 20 0B 00 00 21#	0aaaaaaa 0bbbbbbb	GATE A: SWITCH 0,1 = OFF,ON
0B 00 00 22 0B 00 00 23#	0aaaaaaa 0bbbbbbb	GATE A: MODE 0 = GATE 1 = EXPANDER 2 = DUCKING
0B 00 00 24 0B 00 00 25#	0aaaaaaa 0bbbbbbb	GATE A: THRESHOLD -800,,0 = -80.0,,0.0dB
0B 00 00 26 0B 00 00 27#	0aaaaaaa 0bbbbbbb	GATE A: RATIO (*5) 0,,13 = 1.00:1,,Inf:1
0B 00 00 28 0B 00 00 29#	0aaaaaaa 0bbbbbbb	GATE A: KNEE 0 = HARD 1,,9 = SOFT1,,SOFT9
0B 00 00 2A 0B 00 00 2B#	0aaaaaaa 0bbbbbbb	GATE A: RANGE less than -905,-905,,0 = -Inf,-90.5,,0.0dB
0B 00 00 2C 0B 00 00 2D#	0aaaaaaa 0bbbbbbb	GATE A: ATTACK TIME 0,,8000 = 0.0,,800.0ms
0B 00 00 2E 0B 00 00 2F#	0aaaaaaa 0bbbbbbb	GATE A: RELEASE TIME 0,,8000 = 0,,8000ms
0B 00 00 30 0B 00 00 31#	0aaaaaaa 0bbbbbbb	GATE A: HOLD TIME 0,,8000 = 0,,8000ms
0B 00 00 32 0B 00 00 33#	0aaaaaaa 0bbbbbbb	COMPRESSOR A: SWITCH 0,1 = OFF,ON
0B 00 00 34 0B 00 00 35#	0aaaaaaa 0bbbbbbb	COMPRESSOR A: THRESHOLD -400,,0 = -40.0,,0.0dB
0B 00 00 36 0B 00 00 37#	0aaaaaaa 0bbbbbbb	COMPRESSOR A: RATIO (*5) 0,,13 = 1.00:1,,Inf:1
0B 00 00 38 0B 00 00 39#	0aaaaaaa 0bbbbbbb	COMPRESSOR A: KNEE 0 = HARD 1,,9 = SOFT1,,SOFT9
0B 00 00 3A 0B 00 00 3B#	0aaaaaaa 0bbbbbbb	COMPRESSOR A: ATTACK TIME 0,,8000 = 0.0,,800.0ms
0B 00 00 3C 0B 00 00 3D#	0aaaaaaa 0bbbbbbb	COMPRESSOR A: RELEASE TIME 0,,8000 = 0,,8000ms
0B 00 00 3E 0B 00 00 3F#	0aaaaaaa 0bbbbbbb	COMPRESSOR A: GAIN -400,,400 = -40.0,,+40.0dB
0B 00 00 40 0B 00 00 41#	0aaaaaaa 0bbbbbbb	COMPRESSOR A: AUTO GAIN 0,1 = OFF,ON
0B 00 00 42 0B 00 00 43#	0aaaaaaa 0bbbbbbb	ENHANCER/DE-ESSER A: SWITCH 0,1 = OFF,ON
0B 00 00 44 0B 00 00 45#	0aaaaaaa 0bbbbbbb	ENHANCER/DE-ESSER A: MODE 0 = ENHANCER 1 = DE-ESSER
0B 00 00 46 0B 00 00 47#	0aaaaaaa 0bbbbbbb	ENHANCER/DE-ESSER A: FREQ (*3) 60,,140 = 200,,20000Hz
0B 00 00 48 0B 00 00 49#	0aaaaaaa 0bbbbbbb	ENHANCER/DE-ESSER A: ENHANCER SENSE 0,,100
0B 00 00 4A 0B 00 00 4B#	0aaaaaaa 0bbbbbbb	ENHANCER/DE-ESSER A: ENHANCER MIX LEVEL 0,,120 = 0.0,,+12.0dB
0B 00 00 4C 0B 00 00 4D#	0aaaaaaa 0bbbbbbb	ENHANCER/DE-ESSER A: DE-ESSER THRESHOLD -360,,0 = -36.0,,0.0dB
0B 00 00 4E 0B 00 00 4F#	0aaaaaaa 0bbbbbbb	EQ A: SWITCH 0,1 = OFF,ON
0B 00 00 50 0B 00 00 51#	0aaaaaaa 0bbbbbbb	EQ A: ATT -420,,60 = -42.0,,6.0dB
0B 00 00 52 0B 00 00 53#	0aaaaaaa 0bbbbbbb	EQ A: LO TYPE 0: PEAKING 1: LO SHELVEING 2: HI SHELVEING 3: LO PASS 1st 4: HI PASS 1st 5: LO PASS 2nd 6: HI PASS 2nd 7: BAND PASS 8: BAND ELIMINATION 9: THRU
0B 00 00 54 0B 00 00 55#	0aaaaaaa 0bbbbbbb	EQ A: LO GAIN -150,,150 = -15.0,,15.0dB
0B 00 00 56 0B 00 00 57#	0aaaaaaa 0bbbbbbb	EQ A: LO FREQ (*3) 20,,140 = 20,,20000Hz
0B 00 00 58 0B 00 00 59#	0aaaaaaa 0bbbbbbb	EQ A: LO Q (*4) 30,,96 = 0.36,,16.00

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OB 00 00 5A OB 00 00 5B#	0aaaaaaaa 0bbbbbbbb	EQ A: LO-MID TYPE 0: PEAKING 1: LO SHELIVING 2: HI SHELIVING 3: LO PASS 1st 4: HI PASS 1st 5: LO PASS 2nd 6: HI PASS 2nd 7: BAND PASS 8: BAND ELIMINATION 9: THRU
OB 00 00 5C OB 00 00 5D#	0aaaaaaaa 0bbbbbbbb	EQ A: LO-MID GAIN -150,,,150 = -15.0,,,15.0dB
OB 00 00 5E OB 00 00 5F#	0aaaaaaaa 0bbbbbbbb	EQ A: LO-MID FREQ (*3) 20,,,140 = 20,,,20000Hz
OB 00 00 60 OB 00 00 61#	0aaaaaaaa 0bbbbbbbb	EQ A: LO-MID Q (*4) 30,,,96 = 0.36,,,16.00
OB 00 00 62 OB 00 00 63#	0aaaaaaaa 0bbbbbbbb	EQ A: HI-MID TYPE 0: PEAKING 1: LO SHELIVING 2: HI SHELIVING 3: LO PASS 1st 4: HI PASS 1st 5: LO PASS 2nd 6: HI PASS 2nd 7: BAND PASS 8: BAND ELIMINATION 9: THRU
OB 00 00 64 OB 00 00 65#	0aaaaaaaa 0bbbbbbbb	EQ A: HI-MID GAIN -150,,,150 = -15.0,,,15.0dB
OB 00 00 66 OB 00 00 67#	0aaaaaaaa 0bbbbbbbb	EQ A: HI-MID FREQ (*3) 20,,,140 = 20,,,20000Hz
OB 00 00 68 OB 00 00 69#	0aaaaaaaa 0bbbbbbbb	EQ A: HI-MID Q (*4) 30,,,96 = 0.36,,,16.00
OB 00 00 6A OB 00 00 6B#	0aaaaaaaa 0bbbbbbbb	EQ A: HI TYPE 0: PEAKING 1: LO SHELIVING 2: HI SHELIVING 3: LO PASS 1st 4: HI PASS 1st 5: LO PASS 2nd 6: HI PASS 2nd 7: BAND PASS 8: BAND ELIMINATION 9: THRU
OB 00 00 6C OB 00 00 6D#	0aaaaaaaa 0bbbbbbbb	EQ A: HI GAIN -150,,,150 = -15.0,,,15.0dB
OB 00 00 6E OB 00 00 6F#	0aaaaaaaa 0bbbbbbbb	EQ A: HI FREQ (*3) 20,,,140 = 20,,,20000Hz
OB 00 00 70 OB 00 00 71#	0aaaaaaaa 0bbbbbbbb	EQ A: HI Q (*4) 30,,,96 = 0.36,,,16.00
OB 00 00 72 OB 00 00 73#	0aaaaaaaa 0bbbbbbbb	DELAY A: SWITCH 0,1 = OFF,ON
OB 00 00 74 OB 00 00 75	00 : 00	(Reserved) : (Reserved)
OB 00 00 76 OB 00 00 77#	0aaaaaaaa 0bbbbbbbb	DELAY A: FB 0,,,100
OB 00 00 78 OB 00 00 79#	0aaaaaaaa 0bbbbbbbb	DELAY A: LO FREQ DAMP GAIN -360,,,0 = -36.0,,,0.0dB
OB 00 00 7A OB 00 00 7B#	0aaaaaaaa 0bbbbbbbb	DELAY A: LO FREQ DAMP FREQ (*3) 20,,,100 = 20,,,20000Hz
OB 00 00 7C OB 00 00 7D#	0aaaaaaaa 0bbbbbbbb	DELAY A: HI FREQ DAMP GAIN -360,,,0 = -36.0,,,0.0dB
OB 00 00 7E OB 00 00 7F#	0aaaaaaaa 0bbbbbbbb	DELAY A: HI FREQ DAMP FREQ (*3) 60,,,140 = 200,,,20000Hz
OB 00 01 00 OB 00 01 01#	0aaaaaaaa 0bbbbbbbb	DELAY A: WET POSITION 0,1 = PRE DPF,POST DPF
OB 00 01 02 OB 00 01 03#	0aaaaaaaa 0bbbbbbbb	DELAY A: WET LEVEL (*1) 0,,,127 = -Inf,,,6.0dB
OB 00 01 04 OB 00 01 05#	0aaaaaaaa 0bbbbbbbb	DELAY A: DRY LEVEL (*1) 0,,,127 = -Inf,,,6.0dB
OB 00 01 06 OB 00 01 07#	0aaaaaaaa 0bbbbbbbb	GATE B: SWITCH 0,1 = OFF,ON
OB 00 01 08 OB 00 01 09#	0aaaaaaaa 0bbbbbbbb	GATE B: MODE 0 = EXPANDER 1 = GATE 2 = DUCKING
OB 00 01 0A OB 00 01 0B#	0aaaaaaaa 0bbbbbbbb	GATE B: THRESHOLD -800,,,0 = -80.0,,,0.0dB
OB 00 01 0C OB 00 01 0D#	0aaaaaaaa 0bbbbbbbb	GATE B: RATIO (*5) 0,,,13 = 1.00:1,,,Inf:1
OB 00 01 0E OB 00 01 0F#	0aaaaaaaa 0bbbbbbbb	GATE B: KNEE 0 = HARD 1,,,9 = SOFT1,,,SOFT9

OB 00 01 10 OB 00 01 11#	0aaaaaaaa 0bbbbbbbb	GATE B: RANGE less than -905,-905,,,0 = -Inf,-90.5,,,0.0dB
OB 00 01 12 OB 00 01 13#	0aaaaaaaa 0bbbbbbbb	GATE B: ATTACK TIME 0,,,8000 = 0.0,,,800.0ms
OB 00 01 14 OB 00 01 15#	0aaaaaaaa 0bbbbbbbb	GATE B: RELEASE TIME 0,,,8000 = 0,,,8000ms
OB 00 01 16 OB 00 01 17#	0aaaaaaaa 0bbbbbbbb	GATE B: HOLD TIME 0,,,8000 = 0,,,8000ms
OB 00 01 18 OB 00 01 19#	0aaaaaaaa 0bbbbbbbb	COMPRESSOR B: SWITCH 0,1 = OFF,ON
OB 00 01 1A OB 00 01 1B#	0aaaaaaaa 0bbbbbbbb	COMPRESSOR B: THRESHOLD -400,,,0 = -40.0,,,0.0dB
OB 00 01 1C OB 00 01 1D#	0aaaaaaaa 0bbbbbbbb	COMPRESSOR B: RATIO (*5) 0,,,13 = 1.00:1,,,Inf:1
OB 00 01 1E OB 00 01 1F#	0aaaaaaaa 0bbbbbbbb	COMPRESSOR B: KNEE 0 = HARD 1,,,9 = SOFT1,,,SOFT9
OB 00 01 20 OB 00 01 21#	0aaaaaaaa 0bbbbbbbb	COMPRESSOR B: ATTACK TIME 0,,,8000 = 0.0,,,800.0ms
OB 00 01 22 OB 00 01 23#	0aaaaaaaa 0bbbbbbbb	COMPRESSOR B: RELEASE TIME 0,,,8000 = 0,,,8000ms
OB 00 01 24 OB 00 01 25#	0aaaaaaaa 0bbbbbbbb	COMPRESSOR B: GAIN -400,,,400 = -40.0,,,+40.0dB
OB 00 01 26 OB 00 01 27#	0aaaaaaaa 0bbbbbbbb	COMPRESSOR B: AUTO GAIN 0,1 = OFF,ON
OB 00 01 28 OB 00 01 29#	0aaaaaaaa 0bbbbbbbb	ENHANCER/DE-ESSER B: SWITCH 0,1 = OFF,ON
OB 00 01 2A OB 00 01 2B#	0aaaaaaaa 0bbbbbbbb	ENHANCER/DE-ESSER B: MODE 0 = ENHANCER 1 = DE-ESSER
OB 00 01 2C OB 00 01 2D#	0aaaaaaaa 0bbbbbbbb	ENHANCER/DE-ESSER B: FREQ (*3) 60,,,140 = 200,,,20000Hz
OB 00 01 2E OB 00 01 2F#	0aaaaaaaa 0bbbbbbbb	ENHANCER/DE-ESSER B: ENHANCER SENSE 0,,,100
OB 00 01 30 OB 00 01 31#	0aaaaaaaa 0bbbbbbbb	ENHANCER/DE-ESSER B: ENHANCER MIX LEVEL 0,,,120 = 0.0,,,+12.0dB
OB 00 01 32 OB 00 01 33#	0aaaaaaaa 0bbbbbbbb	ENHANCER/DE-ESSER B: DE-ESSER THRESHOLD -360,,,0 = -36.0,,,0.0dB
OB 00 01 34 OB 00 01 35#	0aaaaaaaa 0bbbbbbbb	EQ B: SWITCH 0,1 = OFF,ON
OB 00 01 36 OB 00 01 37#	0aaaaaaaa 0bbbbbbbb	EQ B: ATT -420,,,60 = -42.0,,,6.0dB
OB 00 01 38 OB 00 01 39#	0aaaaaaaa 0bbbbbbbb	EQ B: LO TYPE 0: PEAKING 1: LO SHELIVING 2: HI SHELIVING 3: LO PASS 1st 4: HI PASS 1st 5: LO PASS 2nd 6: HI PASS 2nd 7: BAND PASS 8: BAND ELIMINATION 9: THRU
OB 00 01 3A OB 00 01 3B#	0aaaaaaaa 0bbbbbbbb	EQ B: LO GAIN -150,,,150 = -15.0,,,15.0dB
OB 00 01 3C OB 00 01 3D#	0aaaaaaaa 0bbbbbbbb	EQ B: LO FREQ (*3) 20,,,140 = 20,,,20000Hz
OB 00 01 3E OB 00 01 3F#	0aaaaaaaa 0bbbbbbbb	EQ B: LO Q (*4) 30,,,96 = 0.36,,,16.00
OB 00 01 40 OB 00 01 41#	0aaaaaaaa 0bbbbbbbb	EQ B: LO-MID TYPE 0: PEAKING 1: LO SHELIVING 2: HI SHELIVING 3: LO PASS 1st 4: HI PASS 1st 5: LO PASS 2nd 6: HI PASS 2nd 7: BAND PASS 8: BAND ELIMINATION 9: THRU
OB 00 01 42 OB 00 01 43#	0aaaaaaaa 0bbbbbbbb	EQ B: LO-MID GAIN -150,,,150 = -15.0,,,15.0dB
OB 00 01 44 OB 00 01 45#	0aaaaaaaa 0bbbbbbbb	EQ B: LO-MID FREQ (*3) 20,,,140 = 20,,,20000Hz
OB 00 01 46 OB 00 01 47#	0aaaaaaaa 0bbbbbbbb	EQ B: LO-MID Q (*4) 30,,,96 = 0.36,,,16.00

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OB 00 01 48 OB 00 01 49#	Oaaaaaaaa 0bbbbbbb	EQ B: HI-MID TYPE 0: PEAKING 1: LO SHELIVING 2: HI SHELIVING 3: LO PASS 1st 4: HI PASS 1st 5: LO PASS 2nd 6: HI PASS 2nd 7: BAND PASS 8: BAND ELIMINATION 9: THRU
OB 00 01 4A OB 00 01 4B#	Oaaaaaaaa 0bbbbbbb	EQ B: HI-MID GAIN -150,,,150 = -15.0,,,15.0dB
OB 00 01 4C OB 00 01 4D#	Oaaaaaaaa 0bbbbbbb	EQ B: HI-MID FREQ (*3) 20,,,140 = 20,,,20000Hz
OB 00 01 4E OB 00 01 4F#	Oaaaaaaaa 0bbbbbbb	EQ B: HI-MID Q (*4) 30,,,96 = 0.36,,,16.00
OB 00 01 50 OB 00 01 51#	Oaaaaaaaa 0bbbbbbb	EQ B: HI TYPE 0: PEAKING 1: LO SHELIVING 2: HI SHELIVING 3: LO PASS 1st 4: HI PASS 1st 5: LO PASS 2nd 6: HI PASS 2nd 7: BAND PASS 8: BAND ELIMINATION 9: THRU
OB 00 01 52 OB 00 01 53#	Oaaaaaaaa 0bbbbbbb	EQ B: HI GAIN -150,,,150 = -15.0,,,15.0dB
OB 00 01 54 OB 00 01 55#	Oaaaaaaaa 0bbbbbbb	EQ B: HI FREQ (*3) 20,,,140 = 20,,,20000Hz
OB 00 01 56 OB 00 01 57#	Oaaaaaaaa 0bbbbbbb	EQ B: HI Q (*4) 30,,,96 = 0.36,,,16.00
OB 00 01 58 OB 00 01 59#	Oaaaaaaaa 0bbbbbbb	DELAY B: SWITCH 0,1 = OFF,ON
OB 00 00 5A : OB 00 00 5B	00 : 00	(Reserved) : (Reserved)
OB 00 01 5C OB 00 01 5D#	Oaaaaaaaa 0bbbbbbb	DELAY B: FB 0,,,100
OB 00 01 5E OB 00 01 5F#	Oaaaaaaaa 0bbbbbbb	DELAY B: LO FREQ DAMP GAIN -360,,,0 = -36.0,,,0.0dB
OB 00 01 60 OB 00 01 61#	Oaaaaaaaa 0bbbbbbb	DELAY B: LO FREQ DAMP FREQ (*3) 20,,,100 = 20,,,20000Hz
OB 00 01 62 OB 00 01 63#	Oaaaaaaaa 0bbbbbbb	DELAY B: HI FREQ DAMP GAIN -360,,,0 = -36.0,,,0.0dB
OB 00 01 64 OB 00 01 65#	Oaaaaaaaa 0bbbbbbb	DELAY B: HI FREQ DAMP FREQ (*3) 60,,,140 = 200,,,20000Hz
OB 00 01 66 OB 00 01 67#	Oaaaaaaaa 0bbbbbbb	DELAY B: WET POSITION 0,1 = PRE DPF,POST DPF
OB 00 01 68 OB 00 01 69#	Oaaaaaaaa 0bbbbbbb	DELAY B: WET LEVEL (*1) 0,,,127 = -Inf,,,6.0dB
OB 00 01 6A OB 00 01 6B#	Oaaaaaaaa 0bbbbbbb	DELAY B: DRY LEVEL (*1) 0,,,127 = -Inf,,,6.0dB
OB 00 01 6C OB 00 01 6D#	Oaaaaaaaa 0bbbbbbb	DELAY A: UNIT 0: 0.1ms 1: Note 2: 0.1m 3: Feet 4: 24fps 5: 25fps 6: 29.97fps 7: 30fps
OB 00 01 6E OB 00 01 6F# OB 00 01 70# OB 00 01 71#	Oaaaaaaaa 0bbbbbbb 0ccccccc 0ddddddd	DELAY A: TIME 0,,,13500000us
OB 00 01 72 OB 00 01 73#	Oaaaaaaaa 0bbbbbbb	DELAY A: NOTE (*7) 0,,,20 = OFF,,,1/1
OB 00 01 74 OB 00 01 75#	Oaaaaaaaa 0bbbbbbb	DELAY B: UNIT 0: 0.1ms 1: Note 2: 0.1m 3: Feet 4: 24fps 5: 25fps 6: 29.97fps 7: 30fps
OB 00 01 76 OB 00 01 77# OB 00 01 78# OB 00 01 79#	Oaaaaaaaa 0bbbbbbb 0ccccccc 0ddddddd	DELAY B: TIME 0,,,13500000us
OB 00 01 7A OB 00 01 7B#	Oaaaaaaaa 0bbbbbbb	DELAY B: NOTE (*7) 0,,,20 = OFF,,,1/1

(*1) Effect Level Table

Data	Lev (dB)	Data	Lev (dB)	Data	Lev (dB)	Data	Lev (dB)
0	- Inf	32	-21.2	64	- 9.3	96	- 0.8
1	-80.0	33	-20.8	65	- 9.0	97	- 0.6
2	-68.0	34	-20.4	66	- 8.8	98	- 0.4
3	-60.0	35	-20.0	67	- 8.6	99	- 0.2
4	-56.0	36	-19.6	68	- 8.4	100	0.0
5	-53.0	37	-19.2	69	- 8.2	101	0.2
6	-50.0	38	-18.8	70	- 8.0	102	0.4
7	-48.0	39	-18.4	71	- 7.6	103	0.6
8	-46.0	40	-18.0	72	- 7.3	104	0.8
9	-44.0	41	-17.6	73	- 7.0	105	1.0
10	-42.0	42	-17.2	74	- 6.6	106	1.3
11	-40.0	43	-16.8	75	- 6.3	107	1.5
12	-38.0	44	-16.4	76	- 6.0	108	1.8
13	-36.0	45	-16.0	77	- 5.8	109	2.0
14	-34.5	46	-15.6	78	- 5.5	110	2.3
15	-33.0	47	-15.2	79	- 5.3	111	2.5
16	-32.0	48	-14.8	80	- 5.0	112	2.8
17	-31.0	49	-14.4	81	- 4.8	113	3.0
18	-30.0	50	-14.0	82	- 4.6	114	3.3
19	-29.0	51	-13.6	83	- 4.4	115	3.5
20	-28.0	52	-13.2	84	- 4.2	116	3.8
21	-27.2	53	-12.8	85	- 4.0	117	4.0
22	-26.4	54	-12.4	86	- 3.6	118	4.2
23	-25.6	55	-12.0	87	- 3.3	119	4.4
24	-24.8	56	-11.6	88	- 3.0	120	4.6
25	-24.0	57	-11.3	89	- 2.6	121	4.8
26	-23.6	58	-11.0	90	- 2.3	122	5.0
27	-23.2	59	-10.6	91	- 2.0	123	5.2
28	-22.8	60	-10.3	92	- 1.8	124	5.4
29	-22.4	61	-10.0	93	- 1.5	125	5.6
30	-22.0	62	- 9.8	94	- 1.3	126	5.8
31	-21.6	63	- 9.5	95	- 1.0	127	6.0

(*2) Dynamics Attack/Release/Hold time Table

Data	Atk (ms)	Rel/Hold (ms)	Data	Atk (ms)	Rel/Hold (ms)	Data	Atk (ms)	Rel/Hold (ms)
0	0.0	0	42	7.1	71	84	80.0	800
1	0.1	1	43	7.5	75	85	84.0	840
2	0.2	2	44	8.0	80	86	90.0	900
3	0.3	3	45	8.4	84	87	94.4	944
4	0.4	4	46	9.0	90	88	100.0	1000
5	0.5	5	47	9.4	94	89	106.0	1060
6	0.6	6	48	10.0	100	90	112.0	1120
7	0.7	7	49	10.6	106	91	120.0	1200
8	0.8	8	50	11.2	112	92	125.0	1250
9	0.9	9	51	12.0	120	93	133.0	1330
10	1.0	10	52	12.5	125	94	140.0	1400
11	1.1	11	53	13.3	133	95	150.0	1500
12	1.2	12	54	14.0	140	96	160.0	1600
13	1.3	13	55	15.0	150	97	170.0	1700
14	1.4	14	56	16.0	160	98	180.0	1800
15	1.5	15	57	17.0	170	99	190.0	1900
16	1.6	16	58	18.0	180	100	200.0	2000
17	1.7	17	59	19.0	190	101	210.0	2100
18	1.8	18	60	20.0	200	102	224.0	2240
19	1.9	19	61	21.0	210	103	237.0	2370
20	2.0	20	62	22.4	224	104	250.0	2500
21	2.1	21	63	23.7	237	105	266.0	2660
22	2.2	22	64	25.0	250	106	280.0	2800
23	2.4	24	65	26.6	266	107	300.0	3000
24	2.5	25	66	28.0	280	108	315.0	3150
25	2.7	27	67	30.0	300	109	335.0	3350
26	2.8	28	68	31.5	315	110	355.0	3550
27	3.0	30	69	33.5	335	111	376.0	3760
28	3.2	32	70	35.5	355	112	400.0	4000
29	3.3	33	71	37.6	376	113	422.0	4220
30	3.6	36	72	40.0	400	114	450.0	4500
31	3.8	38	73	42.2	422	115	473.0	4730
32	4.0	40	74	45.0	450	116	500.0	5000
33	4.2	42	75	47.3	473	117	530.0	5300
34	4.5	45	76	50.0	500	118	560.0	5600
35	4.7	47	77	53.0	530	119	600.0	6000
36	5.0	50	78	56.0	560	120	630.0	6300
37	5.3	53	79	60.0	600	121	670.0	6700
38	5.6	56	80	63.0	630	122	710.0	7100
39	6.0	60	81	67.0	670	123	750.0	7500
40	6.3	63	82	71.0	710	124	800.0	8000
41	6.7	67	83	75.0	750			

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(*3) Mixer Frequency Table

Data	Freq (Hz)	Data	Freq (Hz)	Data	Freq (Hz)
20	20	62	224	104	2.50k
21	21	63	237	105	2.66k
22	22	64	250	106	2.80k
23	24	65	266	107	3.00k
24	25	66	280	108	3.15k
25	27	67	300	109	3.35k
26	28	68	315	110	3.55k
27	30	69	335	111	3.76k
28	32	70	355	112	4.00k
29	33	71	376	113	4.22k
30	36	72	400	114	4.50k
31	38	73	422	115	4.73k
32	40	74	450	116	5.00k
33	42	75	473	117	5.30k
34	45	76	500	118	5.60k
35	47	77	530	119	6.00k
36	50	78	560	120	6.30k
37	53	79	600	121	6.70k
38	56	80	630	122	7.10k
39	60	81	670	123	7.50k
40	63	82	710	124	8.00k
41	67	83	750	125	8.40k
42	71	84	800	126	9.00k
43	75	85	840	127	9.44k
44	80	86	900	128	10.0k
45	84	87	944	129	10.6k
46	90	88	1.00k	130	11.2k
47	94	89	1.06k	131	12.0k
48	100	90	1.12k	132	12.5k
49	106	91	1.20k	133	13.3k
50	112	92	1.25k	134	14.0k
51	120	93	1.33k	135	15.0k
52	125	94	1.40k	136	16.0k
53	133	95	1.50k	137	17.0k
54	140	96	1.60k	138	18.0k
55	150	97	1.70k	139	19.0k
56	160	98	1.80k	140	20.0k
57	170	99	1.90k		
58	180	100	2.00k		
59	190	101	2.10k		
60	200	102	2.24k		
61	210	103	2.37k		

(*6) Modulation Rate Table

Data	Rate (Hz)	Data	Rate (Hz)	Data	Rate (Hz)
		42	0.71	84	8.00
1	0.01	43	0.75	85	8.40
2	0.02	44	0.80	86	9.00
3	0.03	45	0.84	87	9.44
4	0.04	46	0.90	88	10.0
5	0.05	47	0.94		
6	0.06	48	1.00		
7	0.07	49	1.06		
8	0.08	50	1.12		
9	0.09	51	1.20		
10	0.10	52	1.25		
11	0.11	53	1.33		
12	0.12	54	1.40		
13	0.13	55	1.50		
14	0.14	56	1.60		
15	0.15	57	1.70		
16	0.16	58	1.80		
17	0.17	59	1.90		
18	0.18	60	2.00		
19	0.19	61	2.10		
20	0.20	62	2.24		
21	0.21	63	2.37		
22	0.22	64	2.50		
23	0.24	65	2.66		
24	0.25	66	2.80		
25	0.27	67	3.00		
26	0.28	68	3.15		
27	0.30	69	3.35		
28	0.32	70	3.55		
29	0.33	71	3.76		
30	0.36	72	4.00		
31	0.38	73	4.22		
32	0.40	74	4.50		
33	0.42	75	4.73		
34	0.45	76	5.00		
35	0.47	77	5.30		
36	0.50	78	5.60		
37	0.53	79	6.00		
38	0.56	80	6.30		
39	0.60	81	6.70		
40	0.63	82	7.10		
41	0.67	83	7.50		

(*4) Mixer Q Table

Data	Q	Data	Q	Data	Q	Data	Q
30	0.36	50	1.12	70	3.55	90	11.2
31	0.38	51	1.20	71	3.76	91	12.0
32	0.40	52	1.25	72	4.00	92	12.5
33	0.42	53	1.33	73	4.22	93	13.3
34	0.45	54	1.40	74	4.50	94	14.0
35	0.47	55	1.50	75	4.73	95	15.0
36	0.50	56	1.60	76	5.00	96	16.0
37	0.53	57	1.70	77	5.30		
38	0.56	58	1.80	78	5.60		
39	0.60	59	1.90	79	6.00		
40	0.63	60	2.00	80	6.30		
41	0.67	61	2.10	81	6.70		
42	0.71	62	2.24	82	7.10		
43	0.75	63	2.37	83	7.50		
44	0.80	64	2.50	84	8.00		
45	0.84	65	2.66	85	8.40		
46	0.90	66	2.80	86	9.00		
47	0.94	67	3.00	87	9.44		
48	1.00	68	3.15	88	10.0		
49	1.06	69	3.35	89	10.6		

(*7) Delay Note Table

Data	Note
0	OFF
1	1/64T
2	1/64
3	1/32T
4	1/64D
5	1/32
6	1/16T
7	1/32D
8	1/16
9	1/8T
10	1/16D
11	1/8
12	1/4T
13	1/8D
14	1/4
15	1/2T
16	1/4D
17	1/2
18	1/1T
19	1/2D
20	1/1

* Valid when "Note" is selected as delay unit.

(*5) Dynamics Ratio Table

Data	RATIO
0	1-00:1
1	1-12:1
2	1-25:1
3	1-40:1
4	1-60:1
5	1-80:1
6	2-00:1
7	2-50:1
8	3-20:1
9	4-00:1
10	5-60:1
11	8-00:1
12	16-0:1
13	InF:1

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31Band GEQ Parameter

Start address	Data	Contents and remarks
0B 10 00 00	00 - 01	GEQ1: LINK OFF,ON
0B 10 00 01	00 - 01	GEQ1: BYPASS OFF,ON
0B 10 00 02	00 - 11	GEQ1: INSERT 0,1 = MAIN L INS,MAIN R INS 2,,17 = AUX1 INS,,AUX16 INS 18,,25 = MTX1 INS,,MTX8 INS 127 = NONE
0B 10 00 03	00	(Reserved)
0B 10 00 1F	00	(Reserved)
0B 10 00 20	0aaaaaaaa 0bbbbbbb	GEQ1: ATT -420,,150 = -42.0,,15.0dB
0B 10 00 22	0aaaaaaaa 0bbbbbbb	GEQ1: 20Hz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 24	0aaaaaaaa 0bbbbbbb	GEQ1: 25Hz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 26	0aaaaaaaa 0bbbbbbb	GEQ1: 32Hz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 28	0aaaaaaaa 0bbbbbbb	GEQ1: 40Hz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 2A	0aaaaaaaa 0bbbbbbb	GEQ1: 50Hz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 2C	0aaaaaaaa 0bbbbbbb	GEQ1: 63Hz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 2E	0aaaaaaaa 0bbbbbbb	GEQ1: 80Hz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 30	0aaaaaaaa 0bbbbbbb	GEQ1: 100Hz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 32	0aaaaaaaa 0bbbbbbb	GEQ1: 125Hz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 34	0aaaaaaaa 0bbbbbbb	GEQ1: 160Hz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 36	0aaaaaaaa 0bbbbbbb	GEQ1: 200Hz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 38	0aaaaaaaa 0bbbbbbb	GEQ1: 250Hz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 3A	0aaaaaaaa 0bbbbbbb	GEQ1: 315Hz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 3C	0aaaaaaaa 0bbbbbbb	GEQ1: 400Hz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 3E	0aaaaaaaa 0bbbbbbb	GEQ1: 500Hz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 40	0aaaaaaaa 0bbbbbbb	GEQ1: 630Hz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 42	0aaaaaaaa 0bbbbbbb	GEQ1: 800Hz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 44	0aaaaaaaa 0bbbbbbb	GEQ1: 1.00kHz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 46	0aaaaaaaa 0bbbbbbb	GEQ1: 1.25kHz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 48	0aaaaaaaa 0bbbbbbb	GEQ1: 1.60kHz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 4A	0aaaaaaaa 0bbbbbbb	GEQ1: 2.00kHz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 4C	0aaaaaaaa 0bbbbbbb	GEQ1: 2.50kHz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 4E	0aaaaaaaa 0bbbbbbb	GEQ1: 3.15kHz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 50	0aaaaaaaa 0bbbbbbb	GEQ1: 4.00kHz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 52	0aaaaaaaa 0bbbbbbb	GEQ1: 5.00kHz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 54	0aaaaaaaa 0bbbbbbb	GEQ1: 6.30kHz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 56	0aaaaaaaa 0bbbbbbb	GEQ1: 8.00kHz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 58	0aaaaaaaa 0bbbbbbb	GEQ1: 10.0kHz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 5A	0aaaaaaaa 0bbbbbbb	GEQ1: 12.5kHz LEVEL -150,,150 = -15.0,,15.0dB
0B 10 00 5C	0aaaaaaaa 0bbbbbbb	GEQ1: 16.0kHz LEVEL -150,,150 = -15.0,,15.0dB

0B 10 00 5E	0aaaaaaaa	GEQ1: 20.0kHz LEVEL
0B 10 00 5F#	0bbbbbbb	-150,,150 = -15.0,,15.0dB
0B 10 00 20	00	(Reserved)
0B 10 7F 7F	00	(Reserved)
0B 11 00 00	00 -	GEQ2 (similar to 0B 10 00 00 - 0B 10 7F 7F)
0B 11 7F 7F	00 -	:
0B 13 00 00	00 -	GEQ4 (similar to 0B 10 00 00 - 0B 10 7F 7F)
0B 13 7F 7F	00 -	:

External Effect Parameter

Start address	Data	Contents and remarks
0B 20 00 00	00	(Reserved)
0B 20 00 01	00	(Reserved)
0B 20 00 02	00 - 01	EXT FX1 SWITCH OFF,ON
0B 20 00 03	00 - 42	EXT FX1 INSERT 0,,47 = CH1 INS,,CH48 INS 48,49 = MAIN L INS,MAIN R INS 50,,65 = AUX1 INS,,AUX16 INS 82,,89 = MTX1 OUT,,MTX8 OUT 127 = NONE
0B 20 00 04	0aaaaaaaa	EXT FX1 RETURN LEVEL
0B 20 00 05#	0bbbbbbb	less than -905,-905,,60 = -Inf,-90.5,,+6.0dB
0B 20 00 06	0aaaaaaaa	EXT FX1 SEND LEVEL
0B 20 00 07#	0bbbbbbb	less than -905,-905,,60 = -Inf,-90.5,,+6.0dB
0B 20 00 08	00	(Reserved)
0B 20 7F 7F	00	(Reserved)
0B 21 00 00	00 -	EXT FX2 (similar to 0B 20 00 00 - 0B 20 7F 7F)
0B 21 7F 7F	00 -	:
0B 27 00 00	00 -	EXT FX8 (similar to 0B 20 00 00 - 0B 20 7F 7F)
0B 27 7F 7F	00 -	:

USB Memory Recorder Parameter

Start address	Data	Contents and remarks
0C 00 00 00	00 - 7F	REC SOURCE L 0,1 = MAIN L OUT,MAIN R OUT 2 = MAIN MONO OUT 3,,18 = AUX1 OUT,,AUX16 OUT 23,,30 = MTX1 OUT,,MTX8 OUT
0C 00 00 01	00 - 7F	REC SOURCE R 0,1 = MAIN L OUT,MAIN R OUT 2 = MAIN MONO OUT 3,,18 = AUX1 OUT,,AUX16 OUT 23,,30 = MTX1 OUT,,MTX8 OUT
0C 00 00 02	0aaaaaaaa	REC LEVEL
0C 00 00 03#	0bbbbbbb	less than -905,-905,,100 = -Inf,-90.5,,+10.0dB
0C 00 00 00	00	(Reserved)

●MATRIX Channel Parameter

Start address	Data	Contents and remarks
0E 00 00 00	20 - 7F	MTX1 NAME-1 (ASCII)
0E 00 00 01#	20 - 7F	MTX1 NAME-2 (ASCII)
0E 00 00 02#	20 - 7F	MTX1 NAME-3 (ASCII)
0E 00 00 03#	20 - 7F	MTX1 NAME-4 (ASCII)
0E 00 00 04#	20 - 7F	MTX1 NAME-5 (ASCII)
0E 00 00 05#	20 - 7F	MTX1 NAME-6 (ASCII)
0E 00 00 06	00 - 07	MTX1 NAME COLOR 0,,,7 = Navy, Blue, Brown, Red, Yellow, Green, Aqua, Purple
0E 00 00 07	00	(Reserved)
0E 00 00 08	00 - 01	MTX1 LINK OFF, ON
0E 00 00 09	00	(Reserved)
0E 00 00 0A	00 - 08	MTX1 ATT -8,,,0 = -48.0,,,0dB (6dB Step)
0E 00 00 0B	00	(Reserved)
0E 00 00 0C	00 - 01	MTX1 MUTE OFF, ON
0E 00 00 0D	00 - 01	MTX1 SOLO OFF, ON
0E 00 00 0E	0aaaaaaa	MTX1 FADER LEVEL less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
0E 00 00 0F#	0bbbbbbb	
0E 00 00 10	01 - 7F	MTX1 BALANCE L63,,,R63
0E 00 00 11	00	(Reserved)
0E 00 00 4F	00	(Reserved)
0E 00 02 60	00 - 47	MTX1 FROM CH A SOURCE 0,,,47 = CH1,,CH48
0E 00 02 61	00 - 01	MTX1 FROM CH A SWITCH OFF, ON
0E 00 02 62	0aaaaaaa	MTX1 FROM CH A LEVEL less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
0E 00 02 63#	0bbbbbbb	
0E 00 02 64	01 - 7F	MTX1 FROM CH A SEND PAN L63,,,R63
0E 00 00 65	00	(Reserved)
0E 00 00 67	00	(Reserved)
0E 00 02 68	00 - 47	MTX1 FROM CH B SOURCE 0,,,47 = CH1,,CH48
0E 00 02 68	00 - 01	MTX1 FROM CH B SWITCH OFF, ON
0E 00 02 6A	0aaaaaaa	MTX1 FROM CH B LEVEL less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB
0E 00 02 6B#	0bbbbbbb	
0E 00 02 6C	01 - 7F	MTX1 FROM CH B SEND PAN L63,,,R63
0E 00 02 6D	00	(Reserved)
0E 00 7F 7F	00	(Reserved)
0E 01 00 00	00 -	MTX2 (similar to 0E 00 00 00 - 0E 00 7F 7F)
0E 01 7F 7F	00 -	:
0E 07 00 00	00 -	MTX8 (similar to 0E 00 00 00 - 0E 00 7F 7F)
0E 07 7F 7F	00 -	:

●Tempo Parameter

Start address	Data	Contents and remarks
0F 00 00 00	0aaaaaaa	TEMPO 50,,,3000 = 5.0,,,300.0BPM
0F 00 00 01#	0bbbbbbb	
0C 00 00 02	00 - 01	SLAVE TO MIDI CLOCK OFF, ON

●System Parameter

Start address	Data	Contents and remarks
10 00 00 00	0aaaaaaa	METER OVER LEVEL aaaaaaabbbbbbb = -18,,,0dB
10 00 00 01#	0bbbbbbb	
10 00 00 02	00 - 04	METER PEAK HOLD TIME 0,,,3 = 0,,,4sec 4 = Continuous
10 00 00 03	00 - 01	METER PEAK HOLD OFF, ON
10 00 00 04	00 - 02	METER CH METERING POINT PREAMP, PRE FADER, POST FADER
10 00 00 05	00 - 02	METER AUX/MAIN METERING POINT PRE EQ, PRE FADER, OUT LEVEL
10 00 00 06	00	(Reserved)
10 00 00 07	00	(Reserved)
10 00 00 08	00 - 03	RECORDER PLAY MODE PLAY ONE, PLAY ONE REPEAT, PLAY ALL, PLAY ALL REPEAT
10 00 00 09	00	(Reserved)
10 00 00 0F	00	(Reserved)
10 00 00 10	00 - 01	SCENE SCOPE CH1 ON, OFF
10 00 00 11	00 - 01	SCENE SCOPE CH2 ON, OFF
10 00 00 12	00 - 01	SCENE SCOPE CH3 ON, OFF
10 00 00 13	00 - 01	SCENE SCOPE CH4 ON, OFF
10 00 00 14	00 - 01	SCENE SCOPE CH5 ON, OFF
10 00 00 15	00 - 01	SCENE SCOPE CH6 ON, OFF
10 00 00 16	00 - 01	SCENE SCOPE CH7 ON, OFF
10 00 00 17	00 - 01	SCENE SCOPE CH8 ON, OFF
10 00 00 18	00 - 01	SCENE SCOPE CH9 ON, OFF
10 00 00 19	00 - 01	SCENE SCOPE CH10 ON, OFF
10 00 00 1A	00 - 01	SCENE SCOPE CH11 ON, OFF
10 00 00 1B	00 - 01	SCENE SCOPE CH12 ON, OFF
10 00 00 1C	00 - 01	SCENE SCOPE CH13 ON, OFF
10 00 00 1D	00 - 01	SCENE SCOPE CH14 ON, OFF
10 00 00 1E	00 - 01	SCENE SCOPE CH15 ON, OFF
10 00 00 1F	00 - 01	SCENE SCOPE CH16 ON, OFF
10 00 00 20	00 - 01	SCENE SCOPE CH17 ON, OFF
10 00 00 21	00 - 01	SCENE SCOPE CH18 ON, OFF
10 00 00 22	00 - 01	SCENE SCOPE CH19 ON, OFF
10 00 00 23	00 - 01	SCENE SCOPE CH20 ON, OFF
10 00 00 24	00 - 01	SCENE SCOPE CH21 ON, OFF
10 00 00 25	00 - 01	SCENE SCOPE CH22 ON, OFF
10 00 00 26	00 - 01	SCENE SCOPE CH23 ON, OFF
10 00 00 27	00 - 01	SCENE SCOPE CH24 ON, OFF
10 00 00 28	00 - 01	SCENE SCOPE CH25 ON, OFF
10 00 00 29	00 - 01	SCENE SCOPE CH26 ON, OFF
10 00 00 2A	00 - 01	SCENE SCOPE CH27 ON, OFF
10 00 00 2B	00 - 01	SCENE SCOPE CH28 ON, OFF
10 00 00 2C	00 - 01	SCENE SCOPE CH29 ON, OFF
10 00 00 2D	00 - 01	SCENE SCOPE CH30 ON, OFF
10 00 00 2E	00 - 01	SCENE SCOPE CH31 ON, OFF
10 00 00 2F	00 - 01	SCENE SCOPE CH32 ON, OFF
10 00 00 30	00 - 01	SCENE SCOPE CH33 ON, OFF
10 00 00 31	00 - 01	SCENE SCOPE CH34 ON, OFF
10 00 00 32	00 - 01	SCENE SCOPE CH35 ON, OFF
10 00 00 33	00 - 01	SCENE SCOPE CH36 ON, OFF
10 00 00 34	00 - 01	SCENE SCOPE CH37 ON, OFF
10 00 00 35	00 - 01	SCENE SCOPE CH38 ON, OFF
10 00 00 36	00 - 01	SCENE SCOPE CH39 ON, OFF
10 00 00 37	00 - 01	SCENE SCOPE CH40 ON, OFF
10 00 00 38	00 - 01	SCENE SCOPE CH41 ON, OFF

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10 00 00 39	00 - 01	SCENE SCOPE CH42	ON, OFF
10 00 00 3A	00 - 01	SCENE SCOPE CH43	ON, OFF
10 00 00 3B	00 - 01	SCENE SCOPE CH44	ON, OFF
10 00 00 3C	00 - 01	SCENE SCOPE CH45	ON, OFF
10 00 00 3D	00 - 01	SCENE SCOPE CH46	ON, OFF
10 00 00 3E	00 - 01	SCENE SCOPE CH47	ON, OFF
10 00 00 3F	00 - 01	SCENE SCOPE CH48	ON, OFF
10 00 00 40	00 - 01	SCENE SCOPE AUX1	ON, OFF
10 00 00 41	00 - 01	SCENE SCOPE AUX2	ON, OFF
10 00 00 42	00 - 01	SCENE SCOPE AUX3	ON, OFF
10 00 00 43	00 - 01	SCENE SCOPE AUX4	ON, OFF
10 00 00 44	00 - 01	SCENE SCOPE AUX5	ON, OFF
10 00 00 45	00 - 01	SCENE SCOPE AUX6	ON, OFF
10 00 00 46	00 - 01	SCENE SCOPE AUX7	ON, OFF
10 00 00 47	00 - 01	SCENE SCOPE AUX8	ON, OFF
10 00 00 48	00 - 01	SCENE SCOPE AUX9	ON, OFF
10 00 00 49	00 - 01	SCENE SCOPE AUX10	ON, OFF
10 00 00 4A	00 - 01	SCENE SCOPE AUX11	ON, OFF
10 00 00 4B	00 - 01	SCENE SCOPE AUX12	ON, OFF
10 00 00 4C	00 - 01	SCENE SCOPE AUX13	ON, OFF
10 00 00 4D	00 - 01	SCENE SCOPE AUX14	ON, OFF
10 00 00 4E	00 - 01	SCENE SCOPE AUX15	ON, OFF
10 00 00 4F	00 - 01	SCENE SCOPE AUX16	ON, OFF
10 00 00 50	00 - 01	SCENE SCOPE MAIN L	ON, OFF
10 00 00 51	00 - 01	SCENE SCOPE MAIN R	ON, OFF
10 00 00 52	00	(Reserved)	
⋮	⋮	⋮	
10 00 00 57	00	(Reserved)	
10 00 00 58	00 - 01	SCENE SCOPE DCA GROUP1	ON, OFF
10 00 00 59	00 - 01	SCENE SCOPE DCA GROUP2	ON, OFF
10 00 00 5A	00 - 01	SCENE SCOPE DCA GROUP3	ON, OFF
10 00 00 5B	00 - 01	SCENE SCOPE DCA GROUP4	ON, OFF
10 00 00 5C	00 - 01	SCENE SCOPE DCA GROUP5	ON, OFF
10 00 00 5D	00 - 01	SCENE SCOPE DCA GROUP6	ON, OFF
10 00 00 5E	00 - 01	SCENE SCOPE DCA GROUP7	ON, OFF
10 00 00 5F	00 - 01	SCENE SCOPE DCA GROUP8	ON, OFF
10 00 00 60	00 - 01	SCENE SCOPE MUTE GROUP1	ON, OFF
10 00 00 61	00 - 01	SCENE SCOPE MUTE GROUP2	ON, OFF
10 00 00 62	00 - 01	SCENE SCOPE MUTE GROUP3	ON, OFF
10 00 00 63	00 - 01	SCENE SCOPE MUTE GROUP4	ON, OFF
10 00 00 64	00 - 01	SCENE SCOPE MUTE GROUP5	ON, OFF
10 00 00 65	00 - 01	SCENE SCOPE MUTE GROUP6	ON, OFF
10 00 00 66	00 - 01	SCENE SCOPE MUTE GROUP7	ON, OFF
10 00 00 67	00 - 01	SCENE SCOPE MUTE GROUP8	ON, OFF
10 00 00 68	00 - 01	SCENE SCOPE FX1	ON, OFF
10 00 00 69	00 - 01	SCENE SCOPE FX2	ON, OFF
10 00 00 6A	00 - 01	SCENE SCOPE FX3	ON, OFF
10 00 00 6B	00 - 01	SCENE SCOPE FX4	ON, OFF
10 00 00 6C	00 - 01	SCENE SCOPE GEQ1	ON, OFF
10 00 00 6D	00 - 01	SCENE SCOPE GEQ2	ON, OFF
10 00 00 6E	00 - 01	SCENE SCOPE GEQ3	ON, OFF
10 00 00 6F	00 - 01	SCENE SCOPE GEQ4	ON, OFF
10 00 00 70	00 - 01	SCENE SCOPE EXT FX1	ON, OFF
10 00 00 71	00 - 01	SCENE SCOPE EXT FX2	ON, OFF
10 00 00 72	00 - 01	SCENE SCOPE EXT FX3	ON, OFF
10 00 00 73	00 - 01	SCENE SCOPE EXT FX4	ON, OFF
10 00 00 74	00 - 01	SCENE SCOPE EXT FX5	ON, OFF
10 00 00 75	00 - 01	SCENE SCOPE EXT FX6	ON, OFF

10 00 00 76	00 - 01	SCENE SCOPE EXT FX7	ON, OFF
10 00 00 77	00 - 01	SCENE SCOPE EXT FX8	ON, OFF
10 00 00 78	00 - 01	SCENE SCOPE INPUT PATCH	ON, OFF
10 00 00 79	00 - 01	SCENE SCOPE INPUT NAME	ON, OFF
10 00 00 7A	00 - 01	SCENE SCOPE OUTPUT PATCH	ON, OFF
10 00 00 7B	00 - 01	SCENE SCOPE OUTPUT NAME	ON, OFF
10 00 00 7C	00	(Reserved)	
⋮	⋮	⋮	
10 00 00 7F	00	(Reserved)	
10 00 01 00	00 - 01	SCENE SCOPE CH PREAMP	ON, OFF
10 00 01 01	00 - 01	SCENE SCOPE CH PHASE	ON, OFF
10 00 01 02	00 - 01	SCENE SCOPE CH ATT	ON, OFF
10 00 01 03	00 - 01	SCENE SCOPE CH FILTER	ON, OFF
10 00 01 04	00 - 01	SCENE SCOPE CH GATE	ON, OFF
10 00 01 05	00 - 01	SCENE SCOPE CH COMP	ON, OFF
10 00 01 06	00 - 01	SCENE SCOPE CH EQ	ON, OFF
10 00 01 07	00 - 01	SCENE SCOPE CH SENDS	ON, OFF
10 00 01 08	00 - 01	SCENE SCOPE CH LEVEL	ON, OFF
10 00 01 09	00 - 01	SCENE SCOPE CH PAN	ON, OFF
10 00 01 0A	00 - 01	SCENE SCOPE AUX/MAIN ATT	ON, OFF
10 00 01 0B	00 - 01	SCENE SCOPE AUX/MAIN EQ	ON, OFF
10 00 01 0C	00 - 01	SCENE SCOPE AUX/MAIN SENDS	ON, OFF
10 00 01 0D	00 - 01	SCENE SCOPE AUX/MAIN LEVEL	ON, OFF
10 00 01 0E	00 - 01	SCENE SCOPE AUX/MAIN BALANCE	ON, OFF
10 00 01 0F	00 - 01	SCENE SCOPE AUX/MAIN LIMITER	ON, OFF
10 00 01 10	00 - 01	MIDI CONTROL CHANGE Rx	OFF, ON
10 00 01 11	00 - 01	MIDI PROGRAM CHANGE Rx	OFF, ON
10 00 01 12	00 - 01	MIDI SYS EX Rx (*1)	OFF, ON
10 00 01 13	00	(Reserved)	
10 00 01 14	00 - 01	MIDI MMC Rx	OFF, ON
10 00 01 15	00 - 01	MIDI CONTROL CHANGE Tx	OFF, ON
10 00 01 16	00 - 01	MIDI PROGRAM CHANGE Tx	OFF, ON
10 00 01 17	00 - 01	MIDI SYS EX Tx (*1)	OFF, ON
10 00 01 18	00	(Reserved)	
⋮	⋮	⋮	
10 00 00 1B	00	(Reserved)	
10 00 01 1C	00 - 01	MIDI OUT	OUT, THRU
10 00 01 1D	00 - 06	RS-232C RS-232C RATE (*1)	0: 4800bps 1: 9600bps 2: 14400bps 3: 31250bps 4: 38400bps 5: 57600bps 6: 115200bps
10 00 01 1E	00 - 7F	DEVICE ID (*1)	0 - 31
10 00 00 1F	00	(Reserved)	
10 00 01 20	00 - 01	USB MIDI CONTROL CHANGE Rx	OFF, ON
10 00 01 21	00 - 01	USB MIDI PROGRAM CHANGE Rx	OFF, ON
10 00 01 22	00 - 01	USB MIDI SYS EX Rx (*1)	OFF, ON
10 00 01 23	00	(Reserved)	
10 00 01 24	00 - 01	USB MIDI MMC Rx	OFF, ON
10 00 01 25	00 - 01	USB MIDI CONTROL CHANGE Tx	OFF, ON
10 00 01 26	00 - 01	USB MIDI PROGRAM CHANGE Tx	OFF, ON
10 00 01 27	00 - 01	USB MIDI SYS EX Tx (*1)	OFF, ON
10 00 01 28	00	(Reserved)	
⋮	⋮	⋮	
10 00 01 2E	00	(Reserved)	
10 00 01 2F	00 - 01	V-LINK SWITCH (*1)	OFF, ON
10 00 01 30	00 - 2F	V-LINK VIDEO1 SOURCE	0,,,48 = CH1,,,CH48
10 00 01 31	00	(Reserved)	
10 00 01 32	0aaaaaaa	V-LINK VIDEO1 MAX LEVEL	
10 00 01 33#	0bbbbbbb	less than -905,-905,,,100 = -Inf,-90.5,,,+10.0dB	

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10 00 01 34	0aaaaaaaa	V-LINK VIDEO1 MIN LEVEL	
10 00 01 35#	0bbbbbbb	less than -905,-905,,,100 =	-Inf,-90.5,,,+10.0dB
10 00 01 36	00 - 2F	V-LINK VIDEO2 SOURCE	0,,,48 = CH1,,,CH48
10 00 01 37	00	(Reserved)	
10 00 01 38	0aaaaaaaa	V-LINK VIDEO2 MAX LEVEL	
10 00 01 39#	0bbbbbbb	less than -905,-905,,,100 =	-Inf,-90.5,,,+10.0dB
10 00 01 3A	0aaaaaaaa	V-LINK VIDEO2 MIN LEVEL	
10 00 01 3B#	0bbbbbbb	less than -905,-905,,,100 =	-Inf,-90.5,,,+10.0dB
10 00 01 3C	00 - 2F	V-LINK VIDEO3 SOURCE	0,,,48 = CH1,,,CH48
10 00 01 3D	00	(Reserved)	
10 00 01 3E	0aaaaaaaa	V-LINK VIDEO3 MAX LEVEL	
10 00 01 3F#	0bbbbbbb	less than -905,-905,,,100 =	-Inf,-90.5,,,+10.0dB
10 00 01 40	0aaaaaaaa	V-LINK VIDEO3 MIN LEVEL	
10 00 01 41#	0bbbbbbb	less than -905,-905,,,100 =	-Inf,-90.5,,,+10.0dB
10 00 01 42	00 - 2F	V-LINK VIDEO4 SOURCE	0,,,48 = CH1,,,CH48
10 00 01 43	00	(Reserved)	
10 00 01 44	0aaaaaaaa	V-LINK VIDEO4 MAX LEVEL	
10 00 01 45#	0bbbbbbb	less than -905,-905,,,100 =	-Inf,-90.5,,,+10.0dB
10 00 01 46	0aaaaaaaa	V-LINK VIDEO4 MIN LEVEL	
10 00 01 47#	0bbbbbbb	less than -905,-905,,,100 =	-Inf,-90.5,,,+10.0dB
10 00 01 48	00 - 2F	V-LINK VIDEO5 SOURCE	0,,,48 = CH1,,,CH48
10 00 01 49	00	(Reserved)	
10 00 01 4A	0aaaaaaaa	V-LINK VIDEO5 MAX LEVEL	
10 00 01 4B#	0bbbbbbb	less than -905,-905,,,100 =	-Inf,-90.5,,,+10.0dB
10 00 01 4C	0aaaaaaaa	V-LINK VIDEO5 MIN LEVEL	
10 00 01 4D#	0bbbbbbb	less than -905,-905,,,100 =	-Inf,-90.5,,,+10.0dB
10 00 01 4E	00 - 2F	V-LINK VIDEO6 SOURCE	0,,,48 = CH1,,,CH48
10 00 01 4F	00	(Reserved)	
10 00 01 50	0aaaaaaaa	V-LINK VIDEO6 MAX LEVEL	
10 00 01 51#	0bbbbbbb	less than -905,-905,,,100 =	-Inf,-90.5,,,+10.0dB
10 00 01 52	0aaaaaaaa	V-LINK VIDEO6 MIN LEVEL	
10 00 01 53#	0bbbbbbb	less than -905,-905,,,100 =	-Inf,-90.5,,,+10.0dB
10 00 01 54	00 - 2F	V-LINK VIDEO7 SOURCE	0,,,48 = CH1,,,CH48
10 00 01 55	00	(Reserved)	
10 00 01 56	0aaaaaaaa	V-LINK VIDEO7 MAX LEVEL	
10 00 01 57#	0bbbbbbb	less than -905,-905,,,100 =	-Inf,-90.5,,,+10.0dB
10 00 01 58	0aaaaaaaa	V-LINK VIDEO7 MIN LEVEL	
10 00 01 59#	0bbbbbbb	less than -905,-905,,,100 =	-Inf,-90.5,,,+10.0dB
10 00 01 5A	00 - 2F	V-LINK VIDEO8 SOURCE	0,,,48 = CH1,,,CH48
10 00 01 5B	00	(Reserved)	
10 00 01 5C	0aaaaaaaa	V-LINK VIDEO8 MAX LEVEL	
10 00 01 5D#	0bbbbbbb	less than -905,-905,,,100 =	-Inf,-90.5,,,+10.0dB
10 00 01 5E	0aaaaaaaa	V-LINK VIDEO8 MIN LEVEL	
10 00 01 5F#	0bbbbbbb	less than -905,-905,,,100 =	-Inf,-90.5,,,+10.0dB
10 00 01 60	00 - 03	REAC CONFIG SETUP (*1)	0: FOH 1: MONITOR/BROADCAST A 2: (Reserved) 3: BACKUP(S-4000S)
10 00 01 61	00	(Reserved)	
:	:	:	:
10 00 01 67	00	(Reserved)	
10 00 01 68	00 - 01	SAMPLING FREQ (*1)	48, 44.1kHz
10 00 01 69	00 - 0A	PANEL BRIGHTNESS	0,,,10
10 00 01 6A	00 - 0A	LAMP BRIGHTNESS	0,,,10
10 00 01 6B	00 - 0A	DISPLAY BRIGHTNESS	0,,,10

10 00 01 6C	00 - 02	DATE FORMAT	0: MM/DD/YYYY 1: DD/MM/YYYY 2: YYYY/MM/DD
10 00 01 6D	00 - 01	DISABLE MAIN MUTE	OFF, ON
10 00 01 6E	00 - 0A	FADER TOUCH SENSITIVITY	0,,,10
10 00 01 6F	00 - 01	SOLO CH AFL	OFF, ON
10 00 01 70	00 - 01	SOLO MODE	ADD ON, LAST
10 00 01 71	00	(Reserved)	
:	:	:	:
10 00 11 7F	00	(Reserved)	
10 00 12 00	00 - 01	SCENE SCOPE MTX1	ON, OFF
10 00 12 01	00 - 01	SCENE SCOPE MTX2	ON, OFF
10 00 12 02	00 - 01	SCENE SCOPE MTX3	ON, OFF
10 00 12 03	00 - 01	SCENE SCOPE MTX4	ON, OFF
10 00 12 04	00 - 01	SCENE SCOPE MTX5	ON, OFF
10 00 12 05	00 - 01	SCENE SCOPE MTX6	ON, OFF
10 00 12 06	00 - 01	SCENE SCOPE MTX7	ON, OFF
10 00 12 07	00 - 01	SCENE SCOPE MTX8	ON, OFF
10 00 01 09	00 - 01	SCENE SCOPE CH DIRECT OUT	ON, OFF

(*1) This is read-only.

3. MIDI Machine Control

The M-400 will receive MIDI Machine Control messages when the RECEIVE item "MMC" (SYSTEM > REMOTE > MIDI or USB MIDI) is selected.

■MIDI Machine Control Details

●STOP (MCS)

Status	Data Byte	Status
F0H	7FH,Dev,06H,01H	F7H

Byte	Description
F0H	Status of System Exclusive Message
7FH	Universal System Exclusive Real-time Header
Dev	Device ID (or 7FH)
06H	MMC Command Message
01H	STOP(MCS)
F7H	EOX (End of System Exclusive message)

●PLAY(MCS)

Status	Data Byte	Status
F0H	7FH,Dev,06H,02H	F7H

Byte	Description
F0H	Status of System Exclusive Message
7FH	Universal System Exclusive Real-time Header
Dev	Device ID (or 7FH)
06H	MMC Command Message
02H	PLAY(MCS)
F7H	EOX (End of System Exclusive message)

●DEFERRED PLAY(MCS)

Status	Data Byte	Status
F0H	7FH,Dev,06H,03H	F7H

Byte	Description
F0H	Status of System Exclusive Message
7FH	Universal System Exclusive Real-time Header
Dev	Device ID (or 7FH)
06H	MMC Command Message
03H	DEFERRED PLAY(MCS)
F7H	EOX (End of System Exclusive message)

●RECORD STROBE

Status	Data Byte	Status
F0H	7FH,Dev,06H,06H	F7H

Byte	Description
F0H	Status of System Exclusive Message
7FH	Universal System Exclusive Real-time Header
Dev	Device ID (or 7FH)
06H	MMC Command Message
06H	RECORD STROBE
F7H	EOX (End of System Exclusive message)

4. V-LINK RECOGNIZED RECEIVE DATA

The M-400 will receive the messages from external video devices when V-LINK button (SYSTEM > REMOTE > V-LINK) is on.

■SYSTEM EXCLUSIVE MESSAGES

●V-LINK Audio Mixer Channel 1-8 Level

Status	Data Byte	Status
F0H	41H,dev,00H,51H,12H, 20H,20H,ddH,eeH,ffH,Sum	F7H

Byte	Description
F0H	Status of System Exclusive Message
41H	Manufacturer ID (Roland)
Dev	Device ID (or 7FH)
00H 51H	Model ID (V-LINK)
12H	Command ID (DT1)
20H	Address MSB
20H	Address
ddH	Address LSB (*1)
ddH eeH	0000H - 0768H (Level 0.0 - 100.0%)
Sum	Check Sum
F7H	EOX (End of System Exclusive message)

(*1)	
00H:	Channel 1 (Source 1)
02H:	Channel 2 (Source 2)
04H:	Channel 3 (Source 3)
06H:	Channel 4 (Source 4)
08H:	Channel 5 (Source 5)
0AH:	Channel 6 (Source 6)
0CH:	Channel 7 (Source 7)
0EH:	Channel 8 (Source 8)

5. Appendices

●Decimal and Hexadecimal table

(Hexadecimal number is shown with H.)

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

D: decimal

H: hexadecimal

In MIDI documentation, data values and addresses/sizes of system exclusive messages etc. are expressed as hexadecimal values for each 7 bits.

The following table shows how these correspond to decimal numbers.

- (*) Decimal values such as MIDI channel, bank select, and program change are listed as one(1) greater than the values given in the above table.
- (*) A 7-bit byte can express data in the range of 128 steps. For data where greater precision is required, we must use two or more bytes. For example, two hexadecimal numbers aa bbH expression two 7-bit bytes would indicate a value of $aa \times 128 + bb$.
- (*) In the case of values which have a +/- sign, 40H=-64, 00H=0, 3FH=+63, so that the decimal expression would be 64 less than the value given in the above chart. In the case of two types, 40 00H = -8192, 00 00H = 0, 3F 7FH = +8191.
- (*) Data marked "nibbled" is expressed in hexadecimal in 4-bit units. A value expressed as a 20byte nibble 0a 0bH has the value of $a \times 16 + b$.

<Ex.1> What 5AH in decimal system?
5AH = 90 according to the above table.

<Ex.2> What in decimal system is 12034H in hexadecimal of every 7 bit?
12H = 18, 34H = 52 according to the above table. So $18 \times 128 + 52 = 2356$.

<Ex.3> What in decimal system is 0A 03 09 0D in nibble system?
0AH = 10, 03H = 3, 09H = 9, 0DH = 13 according to the above table.
So $((10 \times 16 + 3) \times 16 + 9) \times 16 + 13 = 41885$.

<Ex.4> What in nibble system is 1258 in decimal system?

16)1258
16) 78 ... 10
16) 4 ... 14
0 ... 4
0 = 00H, 4 = 04H, 14 = 0EH, 10 = 0AH according to the above table. So it is 00 04 0E 0AH.

●Example of system exclusive message and Checksum calculation

On Roland system exclusive message (DT1), checksum is added at the end of transmitted data (in front of F7) to check the message is received correctly.

Value of checksum is defined by address and data (or size) of the system exclusive message to be transmitted.

○How to calculate checksum (Hexadecimal number is shown with H.)

checksum is a value which lower 7 bit of the sum of address, size and checksum itself turns to be 0.

If the address of the system exclusive message to be transmitted is aa bb ccH and data or size is dd ee ffH,

$$aa + bb + cc + dd + ee + ff = \text{sum}$$

$$\text{sum} / 128 = \text{quotient and odd}$$

When odd is 0, 0 = checksum

When odd is other than 0, 128 - odd = checksum.

■MIDI Machine Control (MMC) Command

●Command Recognized

Command	Action
01H STOP	STOP
02H PLAY	PLAY
03H DEFERRED	PLAY
06H RECORD STROBE	REC

●Commands Transmitted

The M-400 does not transmit MMC commands.