

# ***Rumour*** ***MANGLER***

**KURZWEIL**  
*Music Systems*

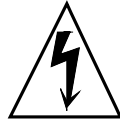
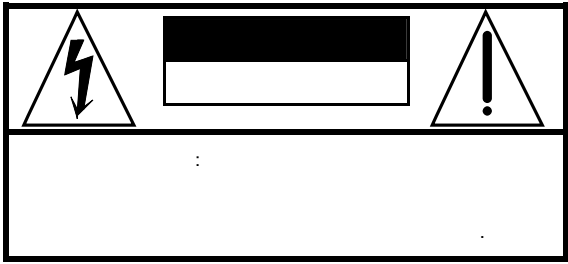
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Kurzweil

,Kurzweil®, Rumour™, Mangler™, V. A. S. T.®, KDFX®, Pitcher®, LaserVerb®, KSP8™, K2600™, K2500™, K2000™  
Kurzweil Kurzweil

Part Number: 910399 Rev.A

---



가

1.

2.

가

가

가

3.

가

4.

가

5.

가

가

가

6.

7.

8.

9.

가

10.

11.

가

가

12.

A.

B.

C.

D.

E.

가

13.

14.

## TV/RADIO

NOTE:

가

EMC 89 / 336 / EEC, 92/31/EEC

가

TV

TV

가

/

가

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# 1 Rumour, Mangler

## Overview

Rumour	Mangler	, Kurzweil		Effect	KSP8			
Preset	64	가	Effect	가	Single Rack	, 192		
Input/Output	S/PDIF	Digital I/O,		Effect	EQ(Pre-effect EQ)			
Rumour	Mangler							
<b>Rumour</b>	Kurzweil	<b>Reverb</b>	<b>Processing</b>	가	, Gate, Reverse,			
	Compress	Reverb	Kurzweil	LaserVerb®				
	Chorus, Flange, Delay	가	Reverb	, Reverb				
	가							
<b>Mangler</b>	<b>Effect Processing</b>	, Reverb						
	Effector	Chorus, Flanger, Phaser, Tremolo, Rotary Speaker, Panner, Delay,						
	Filters, LaserVerb®, Pitcher®, Synth Trigger, Ring Modulation, Distortion,							
	Compression Effect	Effect						

## Quick Start

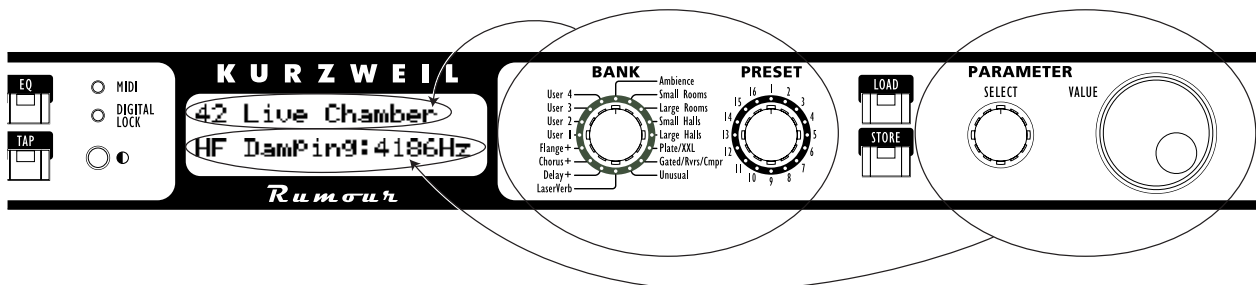
Rumour	Mangler	.	, Tab	LED	System
Tempo		.		Tap Tempo LED Master	
Parameter			. (Tap Tempo LED Master		
3-13		.)			
Input Level	OUTPUT LEVEL		(	)	.
Digital	Analog		.	2-2	“Audio Input
Output”		.	Output	Analog	, 2-2
	-10dBV/+4dBu				

## Level Setting

1. MASTER .
2. Input Source .  
 Input Source: Analog  
 VALUE Source 가 "Analog" "Digital"  
 Analog Input Source Digital Clock (3-5 )  
 Internal Clock( ) . Digital Input Source  
 Digital Clock  
 Analog Input Source , INPUT LEVEL LED  
 INPUT LEVEL ( ) . , Rumour  
 Mangler (Source )  
 (S/N ) Source 가
3. Input Level , OUTPUT LEVEL Output Level  
 . OUTPUT LEVEL 12 , 0dB(Gain )  
 , dB  
 Input Level 가 Output LED가  
 LED , Clipping  
 LED CLIP LED  
 Output Level

## Effect

- Effect BANK PRESET 가 .
  - BANK - Effect
  - PRESET - Effect 16 Effect .
- Effect Appendix .



- 가 Effect User1 User4 Bank 가 ,  
 User Bank 16 가 .  
 Rumour Mangler Preset Bank 3-15 .

## Effect Editing

Rumour Mangler 192 Effect Preset  
 , Rumour Mangler Kurzweil Effect KDFX Effect  
 , 가 Effect  
 . Effect , 가  
 , Rumour Concert Hall ,  
 Wet/Dry .  
 065 Concert Hall  
 Wet/Dry : 50%wet  
 Select VALUE 가 .  
 ● SELECT -  
 ● VALUE -  
 , Basic( ) Extended( ) 2가  
 가 Master Menu . (3-7)  
 )  
 ● Basic - Effect 16 Effect  
 ● Extended - 44 가 .  
 Basic MIDI Continuous Controller  
 . ( MIDI Controller Number 1-16  
 Basic 16 )  
 Appendix A , Preset  
 Rumour Mangler KDFX Kurzweil  
[www.kurzweilmusicsystems.com](http://www.kurzweilmusicsystems.com) .

## Equalizer

Rumour Mangler Pre-effect(Effect 가 ) EQ 가 .  
 Equalizer Effect . Equalizer , EQ  
 EQ Edit , SELECT , VALUE .  
 Equalizer 3-12 .

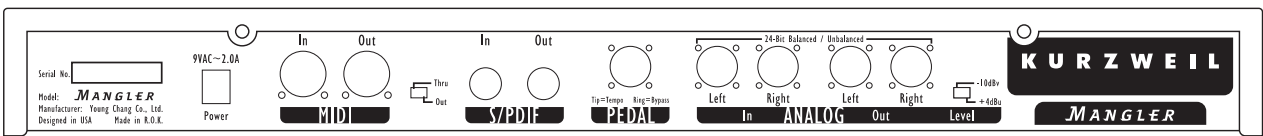




2

Power, Audio, MIDI, Pedal

Mangler . Rumour 가



AC9V 2.0A Output 가

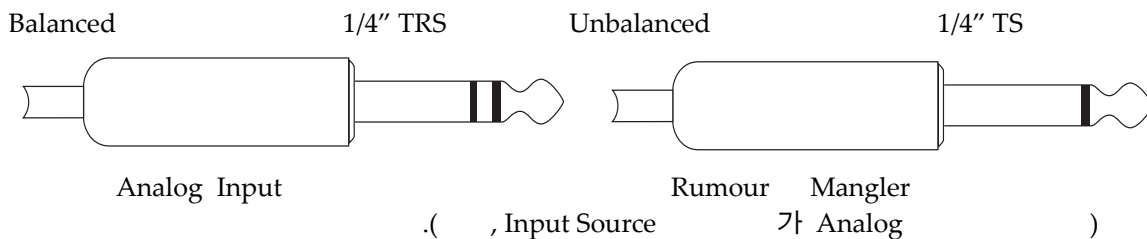
Rumour    Mangler    Analog    Digital    , Input    Output  
가    . , Input    Analog Input    Digital Input  
, Master Manu    **Input Source**    (3-5    )  
**Input**  
 , Mixer    , Mixer    Insert    , Bus Effect  
 , Wet/Dry    (3-4    )    Insert    , Send/Return  
 , 가  
Analog Output    Digital Output    가

## Analog Input Output

Rumour Mangler  
1/4" TRS(Tip-Ring-Sleeve)

Stereo Analog Input  
Unbalanced

Output Balanced  
1/4" TS(Tip-Sleeve)



( , Input Source 가 Analog )

## Analog Output

-10dBV/+4dBu

가

-10dBV Unbalanced

+4dBu Balanced

, Consumer

, 1.0dB Gain

Output

-10dBV

1.0dB Gain

Unbalanced

Output

+4dBu

Balanced

Output

### +4dBu Balanced Analog Input Output:

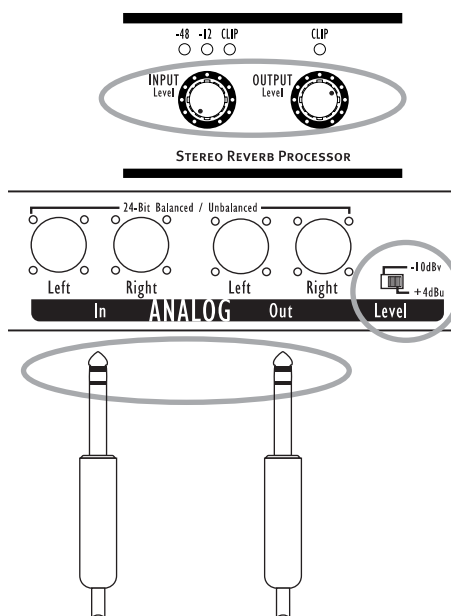
-Balanced Audio Input 사용(TRS Cable)

-Input Level을 최소값으로 설정

-Output Level을 0dB로 설정

-Output Level 스위치를 +4dBu로 설정

-Balanced Audio Output 사용(TRS Cable)



## -10dBV Unbalanced Input Output

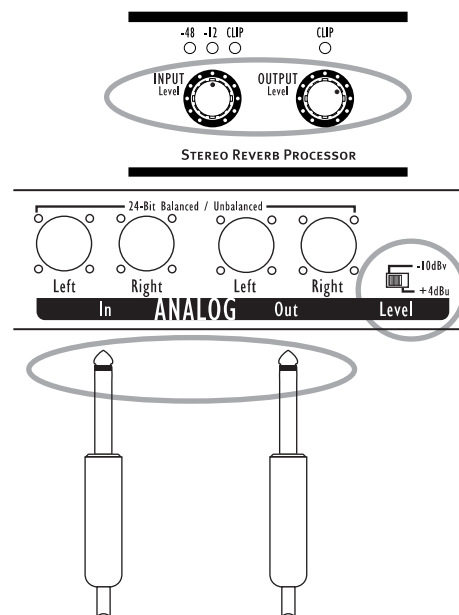
-Unbalanced Audio Input 사용 (TRS Cable)

-Input Level을 중간값 정도로 설정

-Output Level을 0dB로 설정

-Output Level 스위치를 -10dBV로 설정

-Unbalanced Audio Output 사용 (TRS Cable)



## Digital Input Output

Digital Input	Output	S/PDIF	.
RCA	Digital Input	Output	.
Digital Input Level	가	Digital Input Level	EQ
, Output Level	Level	.	EQ
Input Level	.	EQ	.
가	.(EQ Gain	3-12	.)
Master Menu	Digital Clock	Clock	, Clock
	가	.(3-5	)

Foot Pedal

Foot Pedal 2 가

가

- Tap Tempo
- Effect Bypass

Tap Tempo Tap Tempo TAP Tempo

3-13

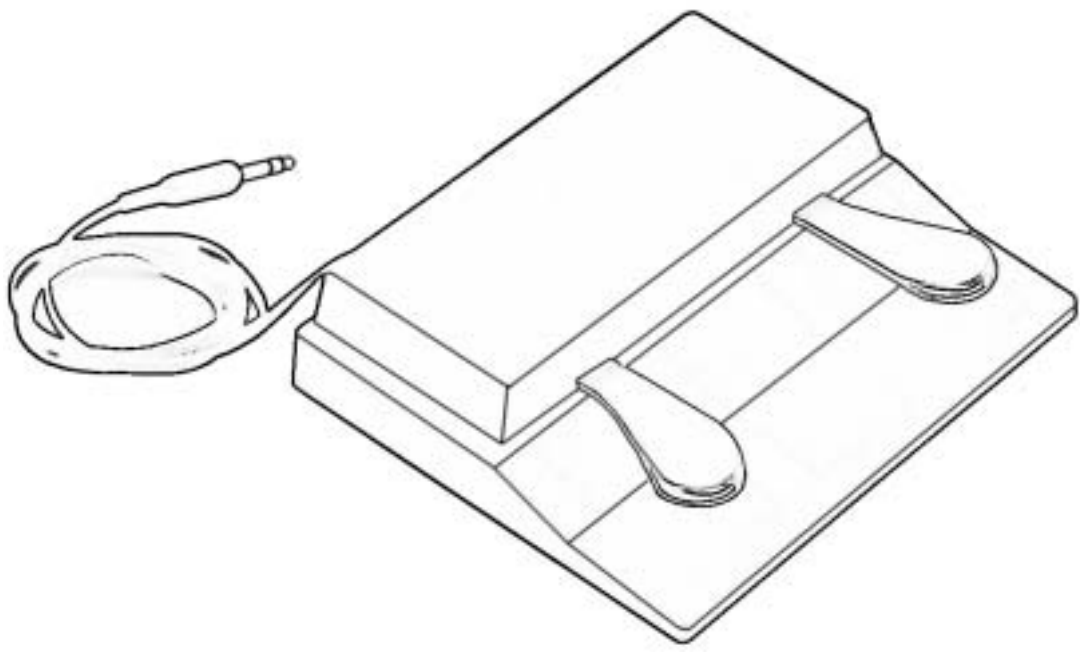
Beat 3-13 BPM Effect Tap Tempo Bypass

Kurzweil KFP-25 2 Tip-Ring-Sleeve

Stereo Tap Tempo Bypass

가 Pedal 2 Y 2가

TRS Tip Tempo, Ring Bypass



MIDI

MIDI MIDI In MIDI Out 2가 MIDI 가 Thru/Out

MIDI Out MIDI Thru MIDI Out

가 MIDI Thru , Rumour Mangler

MIDI (Program Change , SysEx, MIDI Clock )

MIDI

MIDI OS Object Software SysEx

Preset User Set 가 3

## 3

Rumour Mangler

가



## Input Level

## Input Level Meter

가

Input Level

+4dBU

+22dBu

18dB

+4dBU    -10dBV

+4dBu

Input Level

.-10dBV

### Input Level LED

Input Level

LED가

LED -

가 -48dB

-12dB

LED -

가 -12dB

0dB

LED -

0dB

가

가 0dB

Effect

가

-10dB

가

, Input Level

LED

가

, 가 가

.(

.) Input Level

가 가

가

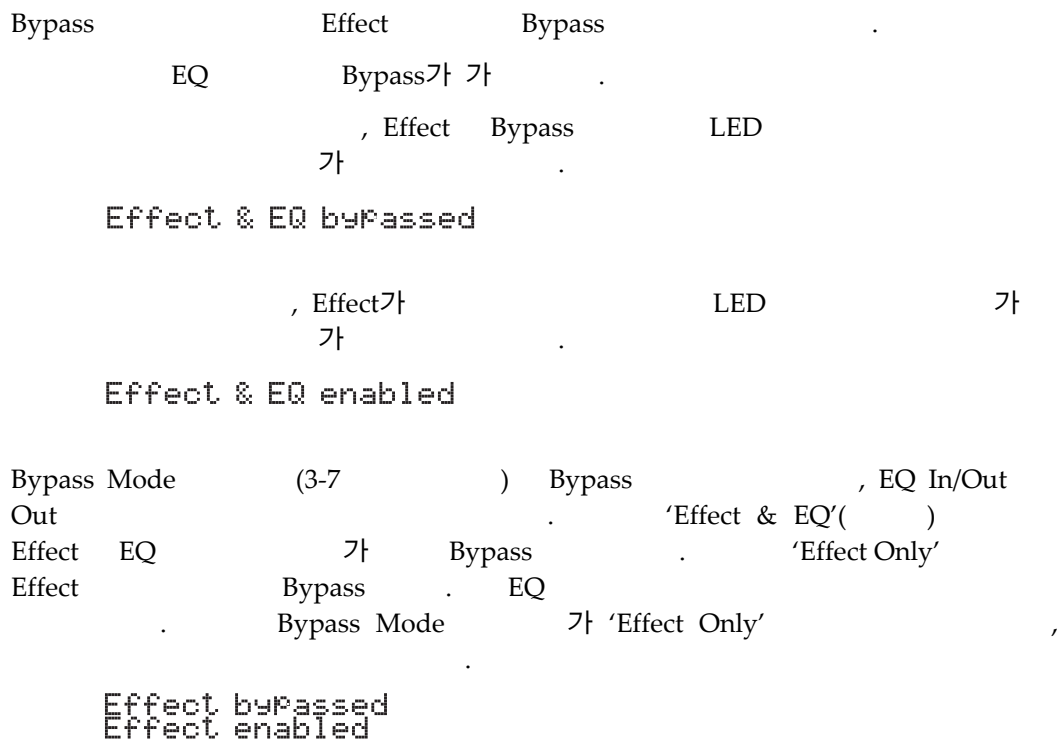


Input Level을 설정할 때, 각별히 주의해 주시기 바랍니다. (특히 Mangler 사용시) 각각의 Effect는 서로 다른 양의 Compressor를 사용하기 때문에, Preset을 바꿀 때 볼륨이 급작스럽게 커지거나 작아질 수 있습니다. 따라서, Input Level은 가능한 -10dBV에 가깝게 맞춰 주시기 바랍니다.

## OUTPUT LEVEL

OUTPUT LEVEL	Effect	Digital Master Gain Level	
-79.5dB	18dB Boost	, 98dB	가 , 가
가 ,	+4dB	-10dBV	
, 가		+4dB/-10dBV	
OUTPUT LEVEL	'CLIP'	LED가	, 가
		LED	
		, Master Output Level	
		Digital Gain	
Master Output Level:			
-6.0dB			
Effect	Output Level	가	, 가
Mixer Gain		가	가
Preset Effect			
Effect	Out Gain		, 가
Output Gain	Output Gain		
	Effect	Preset Effect	, 가
OUTPUT LEVEL			
+4dB/-10dBV	Output		, 가

## Bypass Button



### dB에 관하여...

보통의 기기에서는 출력의 크기를 Volume으로 사용하지만, Kurzweil의 모든 기기에서는 dB로 표현을 합니다.

dB 단위는 Log 함수로 부터 온것이며, 전압과 압력의 측면으로만 봤을 때,

$dB = 20 \log_{10}(\text{실제 전압의 값} / \text{비교 전압의 값})$

으로 나타나는데, 비교 단위가 다양하여 여러가지 단위들을 가지고 있습니다.

DB 단위를 쓰는 이유는 dB단위가 작은 소리의 변화에는 민감하고, 큰소리의 변화에는 둔감한 귀의 반응과 비례하는 단위이기 때문입니다.

dB의 특성을 요약하면 다음과 같습니다.

1. 6dB는 출력의 2배를 나타냅니다.
2. -부호는 역수 만큼 작아졌다는 것을 이야기 합니다.  
본 기기 Eq Gain을 -6dB로 설정했다는 것은 출력을 1/2로 줄였다는 것을 말합니다.
3. 기기마다 -10dBV또는 +4dBu를 사용하므로 연결될 기기의 사양을 정확히 알고 연결해야 합니다.

## Master

Master , Master LED , LCD Master Menu  
Master Mode 가 SELECT Master  
Menu , VALUE  
가 .

Master )  
Bypass Mode Effect & EQ Effect Only .

1. Master Master Mode .  
Master LED Mater Mode .
2. SELECT Bypass Mode 가 .  
Bypass Mode:  
Effect & EQ
3. VALUE Effect only  
Bypass Mode:  
Effect only

"Load=Yes" 가 LOAD Soft Reset  
Soft Reset LOAD Soft Reset

Master Mode , Master LED 가 , Master Mode  
Master Mode가

Master Mode .

## Wet/Dry Mode

Wet/Dry Mode:  
Insert, Send/Return  
Insert Wet/Dry Preset .  
Channel Insert Rumour Mangler가  
Wet/Dry Send/Return Preset 100% Wet 가  
Mixer Effect Return Auxiliary Bus , Mixer  
Bus Send Effect Level Send/Return Value  
% , Insert  
Effect (Compressor ) Wet/Dry  
가 Effect .



## Input Source

Input Source:  
Analog, Digital

Stereo Analog Input Source, S/PDIF Digital Input  
Input Source .  
Input Analog Input, Rumour Mangler  
Mono Channel( , ) Level  
Mono Stereo Effect .

## Digital Clock

Digital Clock:  
44.1kHz Internal, 48kHz Internal, External

Rumour Mangler가 S/PDIF 가  
Master Clock . Digital Clock ,  
Clock Source Internal Clock , External Clock  
Internal Clock  
Analog Input Output , Internal  
External Rumour Mangler S/PDIF  
Clock  
DIGITAL CLOCK LED , Digital Clock  
가



주의: Digital Clock Source를 전환 했을 때, 연결된 기기가 오동작을 일으킬 수도 있으므로, 오디오 음량을 줄인 뒤 Clock을 전환해주시기 바랍니다.

## Digital Word Length

Digital Word Length:  
16 bits, 20 bits, 24 bits

Output Bit-Depth( ) . 24 bits . bit  
Dithering .

## MIDI Channel

MIDI Channel:  
None, 1-16

MIDI Data , MIDI Channel . MIDI Data  
None , MIDI  
Channel 1 .

## Program Change Receive

Prog Chg Receive:  
On, Off

MIDI Program Change Message Data . Rumour Mangler  
MIDI Bank Select MIDI Controller 32  
3-14 .

## Program Change Transmit

Prog Chg Transmit:  
On, Off

BANK PRESET Effect Preset , MIDI Program Change Message  
Data . , MIDI OUT/THRU OUT  
Effect Cue가 Enable (3-7 Change Effect Parameter ), LOAD  
"Off" .

## System Tempo

System Tempo: System Tempo:  
120 BPM (Internal) 152 BPM (External)

MIDI Clock Source가 Internal External .  
MIDI Clock Source가 Internal , VALUE 1~255 BPM  
System Tempo 가 TAP  
Tempo 가 (3-13 ) MIDI  
Clock Source가 External , Clock Tempo가  
, VALUE TAP 가 .

## MIDI Clock Source

MIDI Clock Source:  
Internal, External

System Tempo MIDI Clock Source , MIDI Clock Source

## Transmit MIDI Clock

Transmit MIDI Clock:  
On, Off

Rumour Mangler MIDI Sync MIDI Out Port  
MIDI Out/Thru Thru MIDI Clock  
, Rumour Mangler MIDI

## Tap Tempo LED

Tap Tempo LED:  
Blink Tempo, Don't blink

Tap Temp LED가 System Tempo

## Change Effect

Change Effect:  
Load automatically, Cue next effect

Change Effect "Cue" . Cue Effect ,  
Effect Effect

"Load Automatically" , BANK PRESET Effect가

Effect Effect .

"Load Automatically" , LOAD Preset Editing

Preset .



반면, 파라미터 값을 Cue next effect로 설정한 경우, BANK와 PRESET 노브로 선택한 Effect 는 LOAD 버튼을 누르기 전까지는 화면에만 잠시 나타나게 됩니다. 화면에 나타난 동안에 LOAD 버튼을 누르지 않으면, 그전에 선택되었던 Effect 파라미터 화면으로 돌아가며, 화면에 나타난 동안에 LOAD 버튼을 누르면 화면의 Effect가 적용됩니다. (3-16 참조)

Change Effect "Cue next effect" , MIDI Program  
Change .

## Bypass Mode

Bypass Mode:  
Effect & EQ, Effect only

Bypass , EQ Bypass .  
"Effect & EQ" , , Effect EQ  
가 "Effect only" , EQ 가  
Effect . "Effect only" EQ  
In/Out EQ Bypass 가 (3-12 )

## FX Parameter

Show FX Parameter:  
Basic, Extended

가 "Basic" , 16  
가 Effect 가 , "Extended"  
44 가 가 . , "Extended"  
가 .

SysEx ID

SysEx ID:  
0,1,2...

MIDI , SysEx ID 가 1~127  
. Dump SysEx , SysEx ID Dump  
. ID 127 SysEx 가 .

SysEx Object Dump

SysEx Object Dump?  
User1-4 Load=Dump

가 Preset MIDI Sequencer SysEx  
. , LOAD Dump , BackUp  
가 .  
VALUE 5가  
Bank(User1-4) Dump ,  
Bank(User1, User2, etc) Dump  
● User1-4  
● User1  
● User2  
● User3  
● User4  
가 LOAD 가 .  
가  
Bank(s) User1-4  
have been dumped

3-19 BackUp Preset .

## Erase User Banks

```
Erase User Banks?
User1-4 Load=Erase
```

가 User Bank VALUE  
SysEx Object Dump 가 Bank(User1-4) ,  
Bank(User1, User2, User3, User4) Preset  
가 .

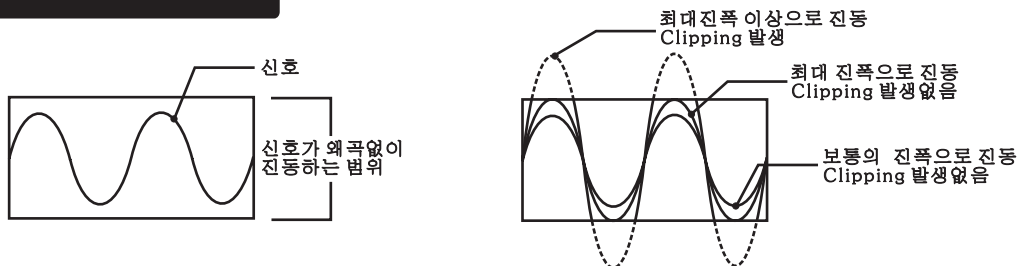
- User1-4
- User1
- User2
- User3
- User4

LOAD

```
Erase User1-4! OK?
Tap=OK Store=No
```

, TAP Bank  
, STORE 가  
Bank(s) User1-4  
have been erased

## Clipping 이란?



위의 그림과 같이 신호의 진폭이 최대 진폭 이하로 유지되어야만 왜곡 없는 소리를 낼 수 있습니다. 만일 신호의 진폭이 최대 진동 범위를 넘어 서게 되면 우측 그림의 점선과 같이 왜곡이 생기며, 이렇게 왜곡이 생긴것을 Clipping이라고 말합니다. Rumour와 Mangler에서는 이런 Clipping 발생시 Clip LED에 불이 들어옵니다. 특히 이런경우 출력부에 연결된 외부기가 파손될 수도 있으므로 반드시 입력 및 출력 레벨은 Clipping이 생기지 않도록 해주시기 바랍니다..

## Soft Reset

```
Soft Reset      Preset      Master Parameter
.      Soft Rest      , Rumour      Mangler
가      ,      가      .

Soft Reset?
Load=Yes

Soft Reset      Soft Reset      . LOAD
Soft Reset      .
Soft Reset! OK?
Tap=OK      Store=No

, TAP      Soft Reset      , STORE
가      .
```

## Hard Reset

```
Hard Reset?
Load=Yes
```



Hard Reset을 실행하게 되면 모든 파라미터 데이터들이 초기화되며, 저장된 **User Bank**는 지워지게 되므로 실행 시 주의를 요합니다.

```
LOAD      .

Hard Reset! OK?
Tap=OK      Store=No

, TAP      Hard Reset      , STORE
가      .
```

## Enter bootblock

Hard Reset! OK?  
Tap=OK Store=No

Software Bootblock . Bootblock Operating System  
mid MIDI  
OS Software  
<http://www.kurzweilmusicsystems.com/html/downloads.html> (  
Software SysEx Preset  
. 3-19 Back Up Preset

LOAD

Enter bootblock! OK?  
Tap=OK Store=No

TAP Bootblock 가 , STORE  
가 . TAP Bootblock

Install FlashROM  
via MIDI Load=Yes

Operating System, Effect Object, Bootblock Software( FlashROM  
) 가 MIDI  
. MIDI MIDI In MIDI Out , MIDI  
MIDI Out MIDI In LOAD  
가

“Install FlashROM”

. SELECT “Exit bootblock” 가  
, LOAD 가

Boot Block 가

Master Menu Boot Block 가 ,  
Software가 가 , Booting  
가 LOAD STORE  
, Boot Block 가  
가 Software

EQ

EQ                      Rumour    Mangler                      3-Band Equalizer                      가                      .  
EQ    Effect                      가                      , Effect                      Global                      . ,  
Effect                      EQ                      ,                      .  
EQ                      EQ                      LED                      가                      EQ                      ,  
                    SELECT                      2                      가                      ,  
                    , EQ Gain                      Level    Boost                      .  
Balance    Width                      EQ                      . EQ                      EQ

EQ

    Bass Gain: 0.0dB  
    Bass Freq: 262Hz

    Mid Gain: 0.0dB  
    Mid Freq: 1109Hz

    Treb Gain: 0.0dB  
    Treb Freq: 4186Hz

    EQ Gain: 0.0dB

EQ Gain                      Effect                      .                      :  
                    EQ Gain                      .

    EQ In/Out: In, Out

EQ In/Out                      EQ                      가                      .                      Bypass Mode가 “Effects  
    only”                      ,                      EQ                      Bypass

    Balance/Pan: 0%

Balance/Pan                      Stereo Input                      Balance                      ,  
Mono Input                      Pan Control                      . S/PDIF                      Stereo                      ,  
Mono Input                      Analog Input                      . Analog Input                      Single  
Input                      Mono                      .

Balance    Pan                      -100%(    )    100%(    )                      . Balance  
                    (Stereo    ) Width                      Channel Output  
                    , Pan                      (Mono    )                      (Sound Image)

    Stereo Width: 100%

Stereo Width                      Balance                      , Pan                      .  
100%                      Stereo                      (Sound Image)                      , 0% Mono  
    . -100%                      .

    (Sound Image)-                      ,    ,    ,    ,    ,    Image                      .



## Tap(Tempo)

TAP System Tempo 가 . Master

System Tempo: 120 BPM (Internal) System Tempo: 152 BPM (External)

Tempo Source가 Internal , TAP 4 , Tempo VALUE  
System Tempo BPM . Tempo

가 .(Pedal 2-4 ) Foot Pedal Tempo

, Tempo Source가 External Tempo  
TAP BPM 가

VALUE 가 Effect  
"System" System Clock .("System"

Preset . System tempo  
) TAP LED Tempo

, Master Tap Tempo LED  
"Don't Blink"

### BPM(Beat Per Minute) Effect

Tempo Beat Per Minuet(1 ) .

MIDI Sync Kurzweil BPM 1/24 Beat  
. Beat .

4 Beat =

2 Beat = 2

1 Beat = 4

12/24 Beat = (4 1/2) = 8

6/24 Beat = (4 1/4) = 16

3/24 Beat = (4 1/8) = 32

8/24, 16/24 Beat = (4 1/3, 2/3)=

4/24, 8/24, 12/24, 16/24, 20/24 = (4 1/6, 2/6, ...) = 8

## MIDI

MIDI	LCD	MIDI LED가	MIDI Data가
Preset	, Master	Channel	Program Change
가	Preset	, 가 "Cue next effect"	
, MIDI	Change Effect		
Rumour	Program Change		
Mangler	Effect	Bank가	
	MIDI Message		MIDI Message
, 100	Effect가		
MIDI Bank	MIDI Bank		
, Effect	Effect	MIDI bank 100	199
, Effect	100	MIDI bank	99
	199		
	100		
, MIDI	, Bank	, Rumour	Mangler
MIDI Bank Select			MIDI Controller Message 32
	MIDI Controller Message 32	143	Preset
Program Change Message	43	1 (100	Bank )
Rumour	Mangler	Channel	16
MIDI Continuous Controller	1-16	MIDI Controller Number	
		16	"Basic" Effect
		Preset	
	, "Entry Value"		



Program Change 메시지를 전송한 후, MIDI Continuous Controller 메시지에 반응하려면 약 0.5초의 시간이 필요합니다. Program Change 메시지를 전송하고 MIDI Continuous Controller 메시지를 사용 하시려면 약간의 시간 간격을 두시기 바랍니다.

## Digital Lock

MIDI LED	Digital Lock LED	Digital Clock
. 44.1	48Hz	Sampling Rate
		Digital Clock
, Digital Lock LED		

## Contrast

Contrast	LCD	가
가		가
		가
		가

BANK

BANK Effect 가 BANK  
PRESET 256 가 Effect Effect Bank  
BANK  
Rumour Mangler 16 Bank가 , Bank 16 Preset  
Effect 가 12 Preset ROM Bank , 4  
가 Effect Bank 가 Preset Effect  
ROM Effect 192 , 가 Effect 16 256 가  
Rumour Mangler Bank

Rumour
1. Ambience
2. Small Rooms
3. Large Rooms
4. Small Halls
5. Large Halls
6. Plate/XXL
7. Gated/Rvrs/Cmpr
8. Unusual
9. Laser Verb
10. Delay+
11. Chorus+
12. Flange+
13. User 1
14. User 2
15. User 3
16. User 4

Mangler
1. Chorus
2. Flange
3. Phase/Tremolo
4. Rotary/Panner
5. Delay
6. LaserVerb
7. Filters
8. Pitcher/Synth
9. Freq Shifters
10. Distortion
11. Distortion+
12. Compression
13. User 1
14. User 2
15. User 3
16. User 4

## PRESET

PRESET Bank 16 Preset

Effect

User Bank가 , < user bank x/y > Effect ,

x User Bank y User Bank Preset .

Change Effect 가 "Load automatically," ,

Effect가 , "Cue next effect"

## Effect Cue

Rumour Mangler Effect가 Effect

Effect

Master Change Effect "Cue next effect"

BANK PRESET Effect

Effect가 , Effect , LOAD

LED가 .( Cue .)

Effect , LOAD Effect

Effect가 LOAD

LOAD LED가 가 Effect 가 , Bank

LOAD LED가 , Effect LOAD

Bank Bank

## LOAD

Change Effect 가 "Load automatically," ,

Effect가 ; LOAD Effect

가 .

Change Effect 가 "Cue next effect," ,

Effect Effect ,

Effect 가 , Effect , LOAD

Effect가 , LOAD

4 LOAD LED가 가 Effect

가 , Bank LOAD LED가

Effect LOAD Bank

Bank

## STORE

```

STORE          가 Effect
,
SELECT          , VALUE
STORE          LED          Effect          가
Effect          STORE          ,          가
User Bank          , Effect Preset
,
Choose a User Bank/#
Select/Value=Rename
(          LOAD          .)
,          User Bank  Preset          가          , BANK
User Bank(User1-User4)          , PRESET          User
Bank          STORE          가
,
Store at User1/13?
205 Classic Chapel
,          Effect가          “Save”          “Replace”
가          ,          Effect
Replace at User1/13?
205 Oval Office
STORE          가          , BANK  PRESET
User Bank          , LOAD

```

## Preset

```

Preset          Bank   Preset          , User Bank Preset
VALUE          Preset          가          SELECT

          . Store          SELECT
가          , VALUE

Choose a User Bank/#
Plastic ChaPel

Preset          , STORE LED가
Preset          가

```

---

Parameter :Select Value

## Parameter : SELECT VALUE

Master , EQ SELECT  
VALUE 가 가 .  
Effect .  
SELECT , Effect 가 .

Bank와 Preset 노브를 이용하여  
Preset 번호와 이름을 선택

42 Live Chamber  
HF Damping: 4186Hz

Select 노브를 이용하여  
현재 Preset의 파라미터들을 선택

Value 노브를 이용하여  
파라미터 값을 조정

VALUE . VALUE  
STORE LED , Effect 가  
STORE LED

Master Menu FX "Basic" , 16  
가 Effect . "Extended"  
44 가 (3-7 )

## MIDI SysEx

## Preset BackUp

- User Bank      Preset      BackUp      ,      MIDI Sequencer가 MIDI Cable
- Rumour      Mangler      .
- Rumour      Mangler      MIDI Out      MIDI In      MIDI Cable
  - Rumour      Mangler      Thru/Out      가 Out
  - SysEx Dump      ,      MIDI Recording
  - SysEx Dump      ,      MIDI Recording
  - SysEx Dump      .      MIDI Recording
  - Master Menu      "SysEx Object Dump?"      , Dump      Bank
  - Sequencer      Recording      LOAD
  - SysEx Dump      , Rumour      Mangler      MIDI LED가
  - ,      Dump      SysEx
  - Preset      BackUp      가      SysEx      Preset

## Preset

Preset      .      Bank



그러므로 **Preset**을 복구하기전에 **Preset** 복구에 사용될 **Bank**의 **Data**들이 지워져도 괜찮은지 반드시 확인하시기 바랍니다.

- BackUp      User Bank
- MIDI      MIDI Out      Rumour, Mangler      MIDI In
  - BANK      BackUp      Preset      ROM Bank      (USER BANK가
  - Bank      .)
  - 가 SysEx Dump      , BackUp      MIDI      Play      SysEx
  - SysEx Dump      . BackUp      MIDI      Play      ,
  - Dump      BackUp      MIDI      Play      SysEx Dump
  - Mode
  - SysEx Data      MIDI LED가      ,      Bank가
  - 가      가      MIDI LED

## Troubleshooting

Rumour, Mangler가 .

, Soft Reset Hard Reset . (Page 3-10 ) Hard  
Reset , Hard Reset  
Effect BankUp .( 3-19 )

가 .

- **Analog Input, Output** 가  
Digital Clock 가 "Internal" . 3-5
- **MIDI 가** (Program Change SysEx )  
MIDI OUT/THRU 가 OUT . OUT  
MIDI 가 . 2-4
- **Software**  
Software MIDI Event .
- **Wet/Dry Level 100%**  
Wet/Dry Mode . 3-4
- **Effect가**  
Change Effect . 3-7
- **BANK/PRESET**  
Effect Cue MIDI Program Change ,  
가  
 . BANK/PRESET
- 가 **Pan**  
EQ . 3-12
- **Clipping Clip LED**  
Input LED Input Level , EQ  
EQ Gain
- **MIDI Continuous Controller**  
1) Preset .( Preset )  
2) Rumour Mangler Program Change 0.5  
MIDI Continuous Controller . Program Change  
(0.5 ) MIDI Continuous Controller  
 . 3-14



# Appendix A

## Effects Tables

Appendix	Bank	가	Rumour	Mangler	Preset Effect
		Preset		KDFX	Algorithm
		KDFX Algorithm			
<a href="http://www.kurzweilmusicsystems.com">www.kurzweilmusicsystems.com</a> (			)	KDFX Reference Manual(	)

## Rumour Effects

Ambience			Small Rooms			Large Rooms		
1	Small Closet	Alg 10	17	BrightSmallRoom	Alg 1	33	Br Empty Room	Alg 7
2	Tight Ambience	Alg 6	18	Small Drum Room	Alg 1	34	In The Studio	Alg 4
3	Add More Air	Alg 10	19	SmallStudioRoom	Alg 4	35	Tabla Room	Alg 12
4	Add Ambience	Alg 1	20	Drum Room	Alg 12	36	Brass Chamber	Alg 1
5	Small Wood Booth	Alg 4	21	Bassy Room	Alg 1	37	Sax Chamber	Alg 1
6	Standard Booth	Alg 8	22	Thick Room	Alg 5	38	Live Chamber	Alg 11
7	Natural Room	Alg 5	23	Sun Room	Alg 5	39	My Garage	Alg 4
8	NiceLittleBooth	Alg 1	24	The Real Room	Alg 5	40	Bigger Perc Room	Alg 7
9	With A Mic	Alg 4	25	Bathroom	Alg 5	41	Plebe Chamber	Alg 1
10	PrettySmallPlace	Alg 4	26	Utility Room	Alg 5	42	Med Large Room	Alg 12
11	Viewing Booth	Alg 1	27	Spitty Drum Room	Alg 7	43	ClassicalChamber	Alg 7
12	Small Dark Room	Alg 12	28	Genuine Room	Alg 5	44	Large Room	Alg 7
13	Intimate Room	Alg 7	29	Green Room	Alg 7	45	Sizzly Drum Room	Alg 5
14	White Room	Alg 5	30	Percussive Room	Alg 1	46	JudgeJudyChamber	Alg 7
15	Live Place	Alg 8	31	The Comfy Club	Alg 9	47	Bloom Chamber	Alg 7
16	A Distance Away	Alg 6	32	Stall One	Alg 7	48	Real Big Room	Alg 5

Small Halls			Large Halls			Plate / XXL		
49	Small Hall	Alg 5	65	Concert Hall	Alg 9	81	Real Plate	Alg 14
50	Real Niceverb	Alg 5	66	Bob'sDiffuseHall	Alg 9	82	Bright Plate	Alg 14
51	Empty Stage	Alg 7	67	Abbey Piano Hall	Alg 7	83	Medm Warm Plate	Alg 7
52	Medium Hall	Alg 1	68	My Dreamy 481!	Alg 9	84	Bloom Plate	Alg 9
53	Elegant Hall	Alg 1	69	The Long Haul	Alg 7	85	Clean Plate	Alg 9
54	Opera House	Alg 5	70	Predelay Hall	Alg 9	86	Plate Mail	Alg 11
55	Mosque Room	Alg 7	71	Sweeter Hall	Alg 7	87	RealSmoothPlate	Alg 9
56	Spacious Hall	Alg 5	72	The Piano Hall	Alg 7	88	Classic Plate	Alg 5
57	Grandiose Hall	Alg 1	73	Bloom Hall	Alg 9	89	Weighty Platey	Alg 5
58	Short Hall	Alg 13	74	Recital Hall	Alg 12	90	Platey Room	Alg 14
59	Bright Hall	Alg 1	75	Generic Hall	Alg 12	91	Huge Tight Plate	Alg 9
60	Classic Chapel	Alg 5	76	Burst Space	Alg 9	92	Immense Mosque	Alg 7
61	Semisweet Hall	Alg 5	77	Real Dense Hall	Alg 7	93	Dreamverb	Alg 10
62	Reflective Hall	Alg 5	78	Pad Space	Alg 11	94	Splendid Palace	Alg 5
63	Smooth Hall	Alg 5	79	Standing Ovation	Alg 11	95	Big Gym	Alg 11
64	Ballroom	Alg 1	80	Flinty Hall	Alg 7	96	Huge Batcave	Alg 12

Gated / Rvrs / Cmpr			Unusual			LaserVerb		
97	Gated Snare Rvrb	Alg 3	113	Non-Linear 1	Alg 10	129	LaserVerb	Alg 100
98	Gated Booth	Alg 3	114	Non-Linear 2	Alg 15	130	Laserwaves	Alg 100
99	Tight Gated Rvrb	Alg 3	115	Non-Linear 3	Alg 6	131	Skinny LaserVerb	Alg 101
100	Gate Plate	Alg 3	116	Exponent Booth	Alg 10	132	Gated LaserVerb	Alg 104
101	Reverse Reverb 1	Alg 15	117	Drum Latch 1	Alg 10	133	LazerfazerEchoes	Alg 102
102	Reverse Reverb 2	Alg 15	118	Drum Latch 2	Alg 10	134	Simple LaserVerb	Alg 102
103	Reverse Reverb 3	Alg 15	119	Diffuse Gate	Alg 9	135	Crystallizer	Alg 100
104	Vocal Room	Alg 51	120	Acid Trip Room	Alg 10	136	Spry Young Boy	Alg 101
105	Vocal Stage	Alg 51	121	ClassRoom	Alg 5	137	Drum Neurezonate	Alg 102
106	Room+Compression	Alg 51	122	HighSchool Gym	Alg 7	138	Growler	Alg 104
107	Room+SlowCompres	Alg 51	123	School Stairwell	Alg 4	139	Ringy Drum Plate	Alg 104
108	Chamber+Compress	Alg 51	124	Cool Dark Place	Alg 11	140	Oil Tank	Alg 104
109	Drum Compr+Rvrb	Alg 51	125	Pitcher Hall	Alg 383	141	Wobbly Plate	Alg 104
110	Snappy Drum Room	Alg 51	126	DistantTVRoom	Alg 383	142	Timbre Taps	Alg 105
111	Roomitizer	Alg 51	127	Shaper+Reverb	Alg 322	143	LaserDelay+Rvrb1	Alg 105
112	Live To Tape	Alg 51	128	Cabinet in room	Alg 285	144	LaserDelay+Rvrb2	Alg 105

Delay+			Chorus+			Flange+		
145	Basic Delay 1/8	Alg 150	161	Stereo Chorus	Alg 408	177	Big Slow Flange	Alg 458
146	Basic Delay 1/4	Alg 150	162	Full Chorus	Alg 408	178	Squeeze Flange	Alg 458
147	Basic Dly 250ms	Alg 190	163	Everyday Chorus	Alg 408	179	Throaty Flange	Alg 458
148	Simple Slap 60ms	Alg 190	164	Dense Gtr Chorus	Alg 408	180	PseudoAnaGtrFlng	Alg 458
149	Wide Slapbk 76ms	Alg 191	165	Wide Chorus	Alg 408	181	Crystal Flange	Alg 458
150	Dub Delay 240ms	Alg 190	166	BasicChorusDelay	Alg 408	182	Flange Echo	Alg 458
151	4-Tap Delay BPM	Alg 150	167	BroadRevSlapback	Alg 408	183	Slapback Flange	Alg 458
152	4-Tap Dly Pan ms	Alg 151	168	Chorus Delay	Alg 408	184	Flange Delay	Alg 458
153	Room+Delay	Alg 105	169	RichChorusDelay	Alg 408	185	Flange Booth	Alg 458
154	Big Hall Delay	Alg 105	170	TheChorusCloset	Alg 408	186	Pewter FlangeVrb	Alg 458
155	Gunshot Verb	Alg 105	171	Chorus HiCeiling	Alg 408	187	Flange Room	Alg 458
156	Mountain Echo ms	Alg 106	172	Chorus Hall	Alg 408	188	FlgDly LargeHall	Alg 458
157	Sm Slap Room ms	Alg 106	173	CathedralChorus	Alg 408	189	SloFlangeDlyRoom	Alg 458
158	ShortPreDly Room	Alg 11	174	ChorDlyRvrb Lead	Alg 408	190	Flange Dly Hall	Alg 458
159	Long PreDly Hall	Alg 11	175	SwishyChDlyHall	Alg 408	191	Brite Rippleverb	Alg 458
160	Furbelows	Alg 9	176	DeepChorDlyRvrb	Alg 408	192	Glacial Canyon	Alg 458

## Mangler Effects

Chorus			Flange			Phase / Tremolo		
1	Stereo Chorus	Alg 201	17	Big Slow Flange	Alg 225	33	Slow Deep Phaser	Alg 251
2	Dense Gtr Chorus	Alg 201	18	PseudoAnaGtrFlng	Alg 225	34	Saucepan Phaser	Alg 253
3	Chorusier	Alg 204	19	Ned Flangers	Alg 225	35	Fast Phaser	Alg 251
4	Everyday Chorus	Alg 204	20	Analogue Flanger	Alg 226	36	Circles	Alg 250
5	Thick Chorus	Alg 205	21	Wispy Flange	Alg 225	37	Wawawa...wawa	Alg 253
6	Wide Chorus	Alg 205	22	Gulp Flange	Alg 225	38	Fast&Slow Phaser	Alg 250
7	Chorus Fastback	Alg 405	23	TightSlapFlange	Alg 455	39	Slow Swish Phase	Alg 253
8	Chorused 4-Tap	Alg 402	24	Flange 4-Tap	Alg 452	40	Static Phaser 1	Alg 255
9	Chorus Laserdly	Alg 405	25	Laserflange	Alg 455	41	Static Phaser 2	Alg 255
10	Chorus Delay	Alg 408	26	Flange Echo	Alg 458	42	Hip Hop Aura	Alg 256
11	Chorus Dly Rvrb	Alg 408	27	FlangeDly LgHall	Alg 458	43	Woodenize	Alg 256
12	Chorus Hall	Alg 408	28	Flange Hall	Alg 458	44	Marimbafication	Alg 256
13	Chorus HiCeiling	Alg 408	29	Flange Plate	Alg 458	45	Tremolo 1/8 BPM	Alg 270
14	TheChorusCloset	Alg 408	30	SyntheticRmFlang	Alg 458	46	Fast Tremolo BPM	Alg 270
15	Standrd Gtr Chor	Alg 408	31	Throaty Flange	Alg 458	47	Fast Sqr Trem Hz	Alg 271
16	Full Chorus	Alg 408	32	Squeeze Flange	Alg 458	48	Tremolo Hz	Alg 271

Rotary / Panner			Delay			LaserVerb		
49	CleanRotors fast	Alg 290	65	Basic Delay 1/8	Alg 152	81	LaserVerb	Alg 100
50	CleanRotors slow	Alg 290	66	Basic Dly 200ms	Alg 153	82	Laserwaves	Alg 100
51	CleanRotors Vb f	Alg 290	67	Simple Slap 60ms	Alg 190	83	Skinny LaserVerb	Alg 101
52	CleanRotors Ch f	Alg 290	68	Dub Delay 240ms	Alg 190	84	LazerfazerEchoes	Alg 102
53	SlightDstRotor f	Alg 291	69	4Tap L>R Pan BPM	Alg 152	85	Spry Young Boy	Alg 101
54	Dirty Rotors f	Alg 294	70	4Tap Rhythm BPM	Alg 152	86	Crystallizer	Alg 100
55	MoreDistRotor f	Alg 293	71	Astral Taps BPM	Alg 155	87	Gated LaserVerb	Alg 104
56	MoreDistRotor s	Alg 293	72	SpectraShapeTaps	Alg 155	88	Growler	Alg 104
57	HeavyDistRotor f	Alg 294	73	Ecko Plecks BPM	Alg 169	89	Drum Neurezonate	Alg 102
58	Widespread	Alg 280	74	Regen Echo ms	Alg 168	90	Oil Tank	Alg 104
59	Widener Mn->St	Alg 281	75	Ducked Delay	Alg 174	91	Wobbly Plate	Alg 104
60	Cabinet in Room	Alg 285	76	Drum+Bass Zapper	Alg 174	92	Reverse Reverb	Alg 15
61	SquarePanner 1/4	Alg 279	77	3Band Drum Delay	Alg 173	93	Tight Gated Rvrb	Alg 3
62	Autopan BPM 1/8	Alg 279	78	Delay Switcher	Alg 172	94	Timbre Taps ms	Alg 106
63	Square Panner Hz	Alg 275	79	Sm Slap Room ms	Alg 106	95	LaserDelay+Rvrb1	Alg 105
64	Autopanner Hz	Alg 275	80	Gunshot Dly Rvrb	Alg 105	96	LaserDelay+Rvrb2	Alg 105

Filters			Pitcher / Synth			Freq Shifters		
97	Envelope Filter	Alg 360	113	Pitcher G3	Alg 382	129	Ring Modulator1	Alg 380
98	Bass Env Filter	Alg 360	114	Pitcher C5	Alg 382	130	Ring Modulator2	Alg 380
99	Synth Env Filter	Alg 360	115	Pitcher D & A	Alg 382	131	Ring Modulator3	Alg 380
100	LFO Sweep Filter	Alg 362	116	Pitcher C maj	Alg 382	132	Ring Modulator4	Alg 380
101	Soft Pulse Filt	Alg 362	117	Pitcher G maj	Alg 382	133	Too Fast Panner	Alg 275
102	Circle Bandsweep	Alg 362	118	NonHarm Vox Ptch	Alg 382	134	Frequency Shift	Alg 385
103	Trip Filter	Alg 362	119	HollowPolyPitchr	Alg 382	135	Drum Loosener	Alg 385
104	DoubleRiseFilter	Alg 362	120	Pitcher Hall	Alg 383	136	Drum Tightener	Alg 385
105	Trig Env Filter	Alg 361	121	DistantTVRoom	Alg 383	137	Feathers McGraw	Alg 385
106	Resonant Lowpass	Alg 363	122	Flange->Pitcher	Alg 384	138	LxR Vox Honker	Alg 386
107	Resonant Hipass	Alg 363	123	Pitcher+Chorus	Alg 410	139	Lollipop Kid	Alg 387
108	OddHarmSuppress	Alg 374	124	Pitcher+Flange	Alg 460	140	Drum Frightener	Alg 387
109	Ring Linger	Alg 390	125	Pitcher+Chor+Dly	Alg 410	141	Fallout	Alg 387
110	HiFreq Stimulate	Alg 372	126	Pitcher+Fing+Dly	Alg 460	142	Ascension	Alg 387
111	2 Band Enhancer	Alg 370	127	DeepSquare Synth	Alg 393	143	4th Stacker	Alg 387
112	3 Band Enhancer	Alg 371	128	Sawtooth Synth	Alg 393	144	Bad Trip Vox	Alg 387

Distortion			Distortion+			Compression		
145	Classic Gtr Dist	Alg 310	161	Chr->GtrDst->Chr	Alg 323	177	HKCompressor 3:1	Alg 330
146	Crunch Guitar	Alg 310	162	ODriveGtrLd DICH	Alg 323	178	Snare After-ring	Alg 330
147	SaturatedGtrDist	Alg 310	163	Krazy Gtr Comper	Alg 323	179	Add Sustain	Alg 331
148	Mean 70'sFunkGtr	Alg 310	164	Flg->GtrDst->Chr	Alg 325	180	SKCompressor 9:1	Alg 331
149	Blown Speaker	Alg 390	165	MildGtrOD+Dly+Fl	Alg 326	181	SKCompres FB 12:1	Alg 331
150	Synth Distortion	Alg 303	166	LeadGtr Dly Fing	Alg 324	182	De-esser	Alg 332
151	Superphasulate	Alg 169	167	Tube Dist+Reverb	Alg 327	183	OptoCompressSCEQ	Alg 344
152	Dist Cab EPiano	Alg 301	168	Distortion+EQ	Alg 304	184	Compress/Expand+	Alg 342
153	Burnt Transistor	Alg 304	169	Shaper->Flange	Alg 321	185	Gate w/SC EQ	Alg 345
154	A little dirty	Alg 305	170	Flange->Shaper	Alg 321	186	Mid Compressor	Alg 335
155	SuperShaper	Alg 306	171	Shaper->Reverb	Alg 322	187	Rvrb+Compression	Alg 51
156	Drum Shaper	Alg 306	172	Reverb->Shaper	Alg 322	188	BigRoom+Compress	Alg 52
157	3 Band Shaper	Alg 307	173	Quantize+Flange1	Alg 309	189	Drum Compr+Rvrb	Alg 51
158	New3BandShaper	Alg 307	174	Quantize+Flange2	Alg 309	190	Snappy Drum Room	Alg 51
159	Quantizer	Alg 309	175	Quantize+Alias1	Alg 308	191	Roomitizer	Alg 51
160	Aliaser	Alg 308	176	Quantize+Alias2	Alg 308	192	Live To Tape	Alg 51



## Appendix B

### Specifications

: 1.8 inches (45 mm)  
 : 1.9 inches (482 mm)  
 : 8.1 inches (205 mm)  
 : 5 lbs. (2.27 Kg)

## Input

### Analog

2 Analog Input: 1/4" Tip-Ring-Sleeve      Balanced/Unbalanced  
 Input Impedance: Balanced      20K Ohm, Unbalanced      10K      20K Ohm  
 A/D Converter : 24 bit, 128x Oversampling  
 Maximum Analog Input Level : +22 dBu Unbalanced  
 0dBFS가      Minimum Input Level : +4dBu Unbalanced  
 Frequency Response: 20Hz-20KHz  $\pm$  0.15 dB  
 Dynamic Range : 22dBu    1KHz      106 dB  
 THD+N: 1KHZ    +19dBu    1KHz      0.001%  
 Crosstalk: +21dBu    1KHz      -104dB

### Digital

Stereo S/PDIF Digital Input (IEC 60958-3)  
 S/PDIF Input Clock      48      44.1KHz  
     Clock      Lock      : 37KHz      49KHz  
 Impedance: 75 Ohm  
 Input Word Length: 24 Bit

## Outputs

### Analog

2 Analog Output: 1/4" Tip-Ring-Sleeve      Balanced/Unbalanced

D/A Converter : 24 bit, 128x Oversampling

Maximum Analog Output Level: +22 dBu Balanced

0dBFS      Minimum Analog Output Level: +10dBu Unbalanced

Output Impedance : Balanced      400 Ohm, Unbalanced      200 Ohm

Output Level : -10dBv      +4dBu      가

Frequency Response : 20Hz-20KHz  $\pm$  0.1dB

Dynamic Range : 22dBu      1KHz      112dB Unweighted

THD+N: +19dBu      1KHz      0.003%

Crosstalk : +21dBu      1KHz      -111dB

### Digital

Stereo S/PDIF Digital Output (IEC 60958-3)

Impedance: 75ohms

Output word length: 16, 20, or 24 bits

## MIDI

- In      Out(Out/Thru      가 )

## Power Supply

- 9.5 Volts AC



## Appendix C

### MIDI Implementation Chart

#### Model: Rumour/Mangler

Manufacturer:  
Young Chang  
Effect Processor

Date: 5/13/03  
Version 1.0

Function		Transmitted	Recognized	Remarks
Basic Channel	Default	1	1	
	Changed	1-16	1-16	
Mode	Default	X	X	
	Messages			
	Altered			
Note Number		X	X	
	True Voice	X	X	
Velocity	Note ON	X	X	
	Note OFF	X	X	
After Touch	Keys	X	X	
	Channels	X	X	
Pitch Bend		X	X	
Control Change		32	1 – 16, 32	1 -16 Effects Controllers 32 Bank Select
Program Change		O	O	
	True #	0 - 99	0 - 127	
System Exclusive		O	O	
System Common	Song Pos.	X	X	
	Song Sel.	X	X	
	Tune	X	X	
System Real Time	Clock	O	O	
	Messages	X	X	
Aux Messages	Local Control	X	X	
	All Notes Off	X	X	
	Active Sense	X	X	
	Reset	X	O	
Notes				

O = yes

X = no



**A**

**B**

C

D

# E

F

H

I

L

M

O

P

**S**

**T**

Transmit MIDI Clock, 3 -6

## W

## U

User Bank, 1 -2, 3 -9, 3 -10, 3 -17

Wet/Dry Mode

Insert, 3 -4

Send/Return, 3 -4

Wet/Dry Mode, 3 -4