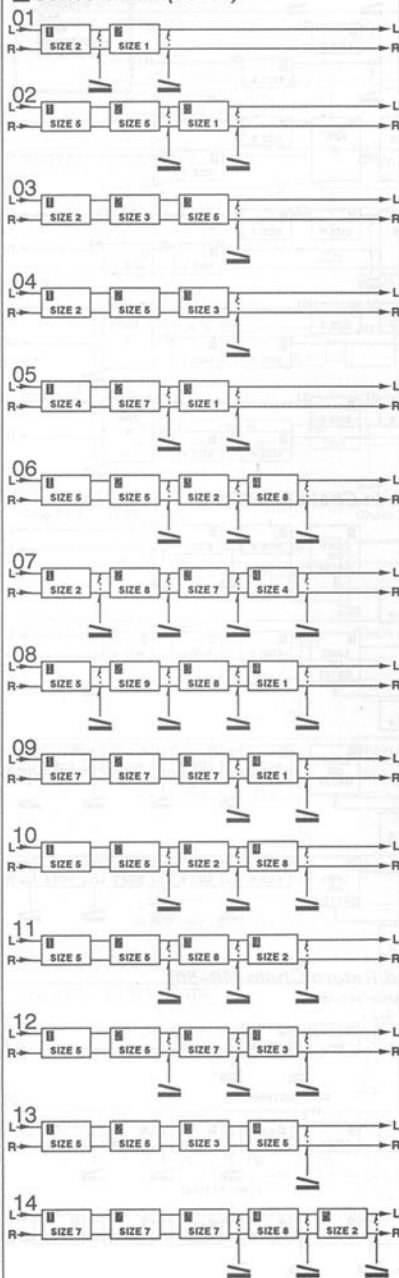
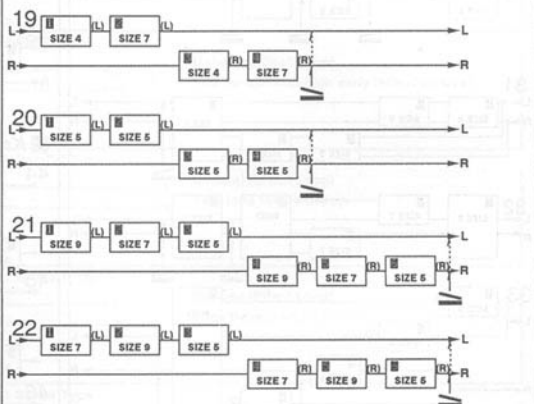


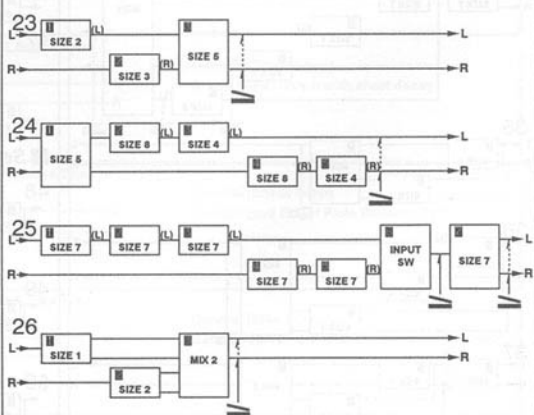
### Series Chain (01~18)



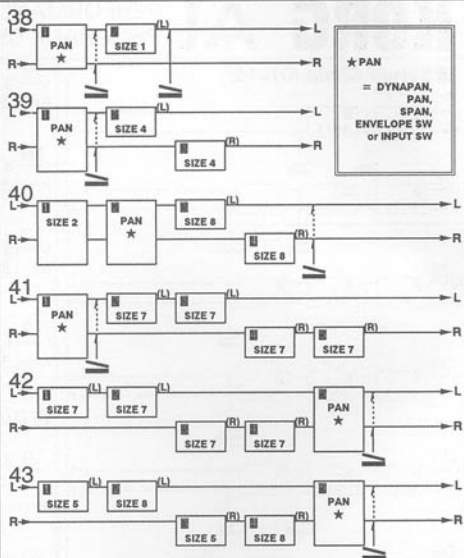
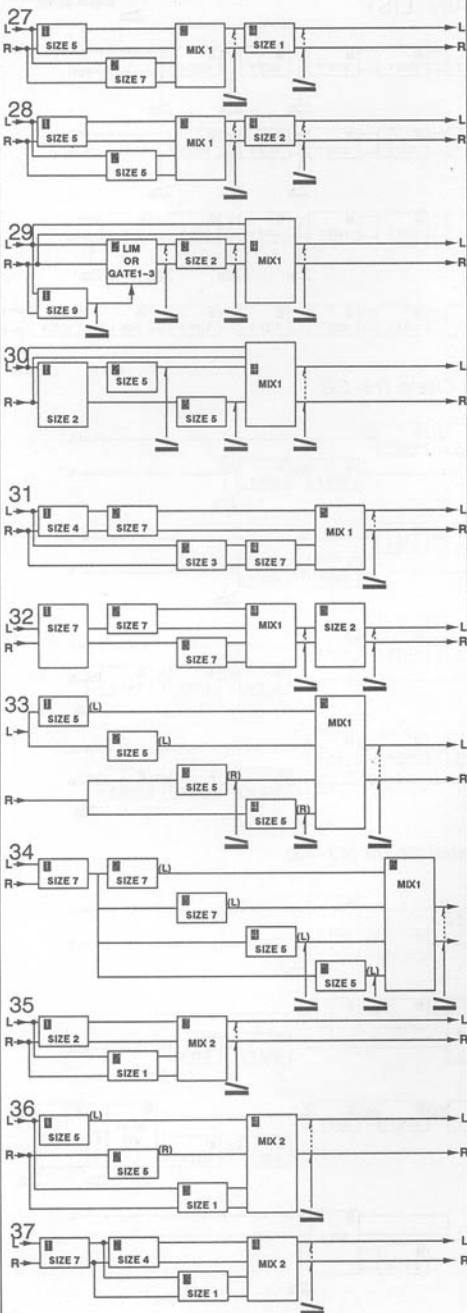
### Dual Chain (19~22)



### Parallel Chain (23~43)

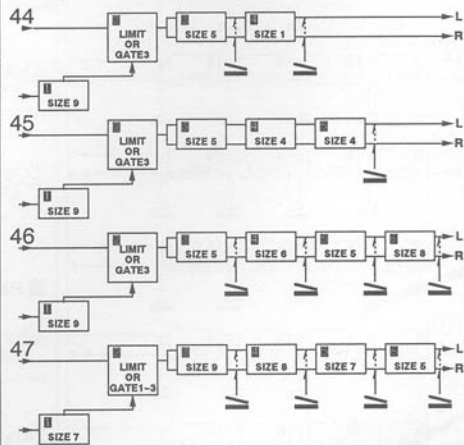


## Parallel Chain (23~43)

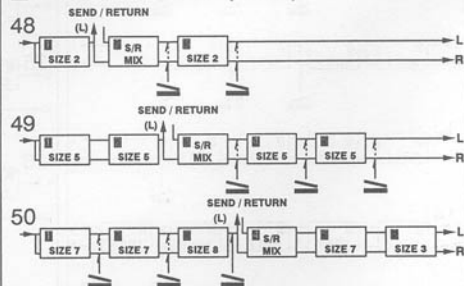


★ PAN  
= DYNAPAN,  
PAN,  
SPAN,  
ENVELOPE SW  
or INPUT SW

## Key-In Chain (44~47)



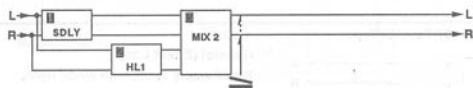
## Send/Return Chain (48~50)



## ● Reverb Programs (00~19)

Prog.#00 LARGE HALL

Chain #35 Parallel Type



General (Effect Loop)  
Hall Reverb with Stereo Delay in parallel.

Prog.#01 SMOOTH HALL

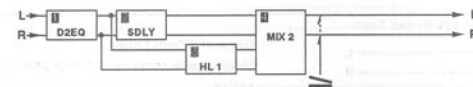
Chain #35 Parallel Type



General (Effect Loop)  
Bright and dark Hall Reverb effects in parallel.

Prog.#02 WARM HALL

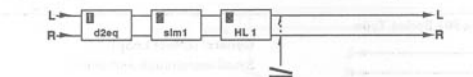
Chain #37 Parallel Type



General (Effect Loop)  
Dual 2Band EQ in series with warm Hall Reverb and Stereo Delay effects in parallel.

Prog.#03 E/R HALL

Chain #02 Series Type



General (Effect Loop)  
Hall Reverb with high early reflection level.

Prog.#04 HUGE HALL

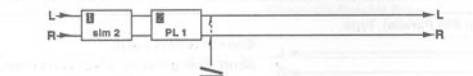
Chain #35 Parallel Type



General (Effect Loop)  
Very long reverb decay.

Prog.#05 RICH PLATE

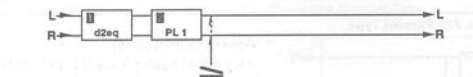
Chain #01 Series Type



General (Effect Loop)  
Plate Reverb effect in series with Stereo Limiter.

Prog.#06 BRIGHT PLATE

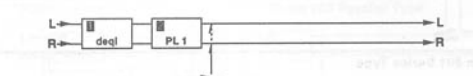
Chain #01 Series Type



General (Effect Loop)  
Bright Plate Reverb. Turn on Dual 2Band EQ for low boost.

Prog.#07 LIVE PLATE

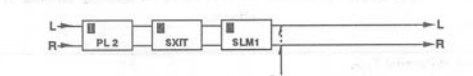
Chain #01 Series Type



General (Effect Loop)  
Bright Plate Reverb with short decay.

Prog.#08 LIMIT PLATE

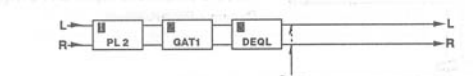
Chain #04 Series Type



General (Effect Loop)  
Compressed Bright Plate Reverb effect.

Prog.#09 GATED PLATE

Chain #03 Series Type



General (Effect Loop)  
Gated Plate Reverb effect into Stereo Parametric EQ.

Prog.#10 SMALL ROOM

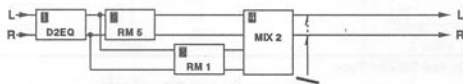
Chain #26 Parallel Type



General (Effect Loop)  
Small room ambience with a door open.

Prog.#11 E/R ROOM

Chain #37 Parallel Type



General (Effect Loop)  
Small empty room with wood floor.

Prog.#12 TILE ROOM

Chain #35 Parallel Type



General (Effect Loop)  
Bright, short Room Reverb with Stereo Delay in parallel.

Prog.#13 MEDIUM ROOM

Chain #01 Series Type



General (Effect Loop)  
Medium size room reverb with Stereo Limiter in series.

Prog.#14 WARE HOUSE

Chain #01 Series Type



General (Effect Loop)  
Small warehouse ambience.

Prog.#15 SLAP SPRING

Chain #35 Parallel Type



General (Effect Loop)  
Dark Spring Reverb with slap delay.

Prog.#16 AMBI SPRING

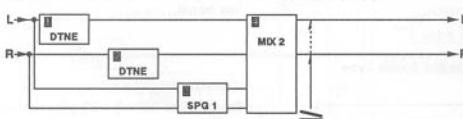
Chain #35 Parallel Type



General (Effect Loop)  
Short Spring Reverb effect adds room type ambience.

Prog.#17 BRIGHT SPRING

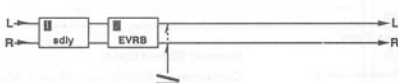
Chain #36 Parallel Type



General (Effect Loop)  
Very bright Spring Reverb with two Detune effects in parallel.

Prog.#18 ECHOVERB

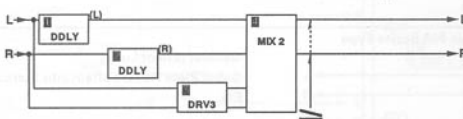
Chain #01 Series Type



General (Effect Loop)  
This effect has an internal pre-delay with a feedback loop for creating echoing type reverb effects.

Prog.#19 DYNAMIC REV

Chain #36 Parallel Type

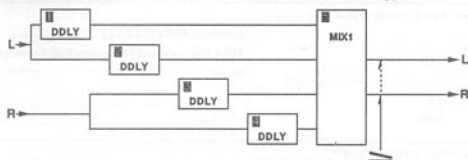


General (Effect Loop)  
Low input levels trigger the Dynamic Delays, mixed in parallel and higher levels trigger the Dynamic Reverb effect.

## ● Delay Programs (20~24)

Prog.#20 DYNAMIC DLVS

Chain #33 Parallel Type

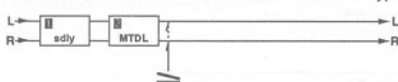


General (Effect Loop)

Low input levels trigger the short delays panned close and higher levels trigger the long delays panned wide.

Prog.#21 Multitap DLY

Chain #01 Series Type



General (Effect Loop)

This effect has two delay taps that can be spread out in the stereo field as well as a parameter that controls feedback density.

Prog.#22 1.34sec DELAY

Chain #01 Series Type



General (Effect Loop)

Delay time set at 1339.9msec.

Prog.#23 SWEEP DELAYS

Chain #35 Parallel Type

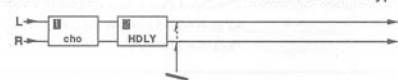


General (Effect Loop)

Pitch up in left and Pitch down in right.

Prog.#24 HOLD DELAY

Chain #01 Series Type



General (Effect Loop)

Press the Hold Delay's "Manual Record" button, ("C"), in the Edit Mode, to record and overdub.

## ● Modulation and Pan Programs (25~34)

Prog.#25 GIANT CHORUS

Chain #35 Parallel Type

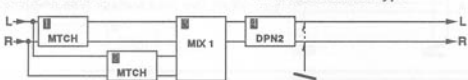


General (Effect Loop)

MIDI Controller#93 controls Chorus effect level.

Prog.#26 PARA CHORUS

Chain #28 Parallel Type

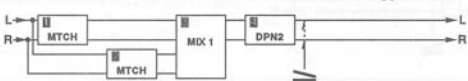


General (Effect Loop)

MIDI Controller#93 controls Chorus effect level.

Prog.#27 PARA FLANGE

Chain #28 Parallel Type

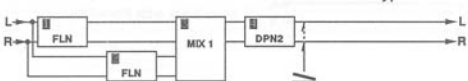


General (Effect Loop)

MIDI Controller#93 controls Flanger effect level.

Prog.#28 Cymbal FLANGE

Chain #28 Parallel Type

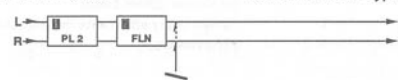


General (Effect Loop)

MIDI Controller#93 controls Chorus effect level.

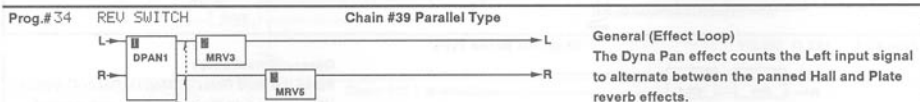
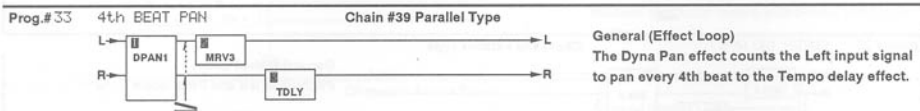
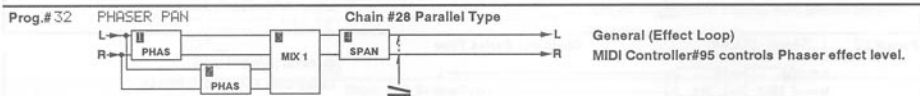
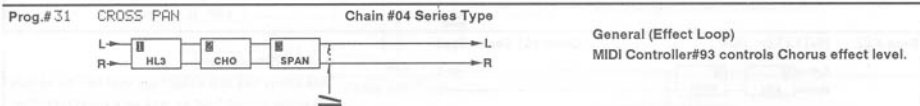
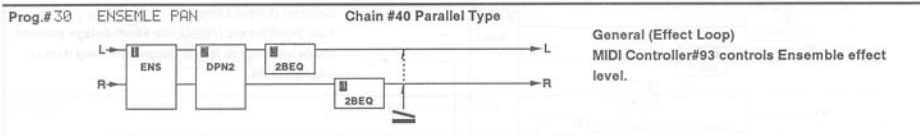
Prog.#29 FLANGE VERB

Chain #01 Series Type

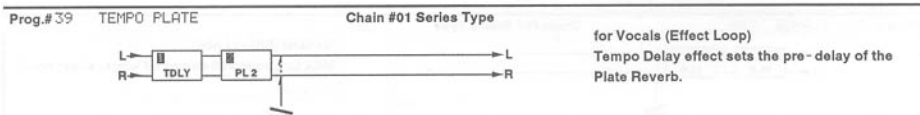
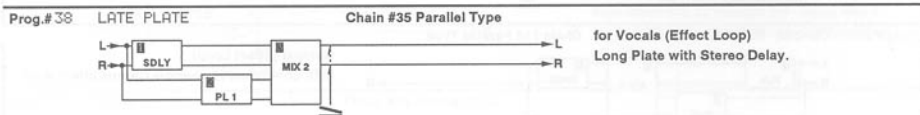
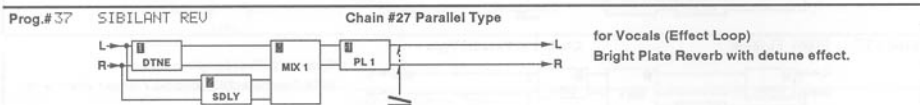
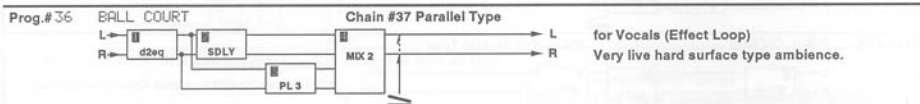
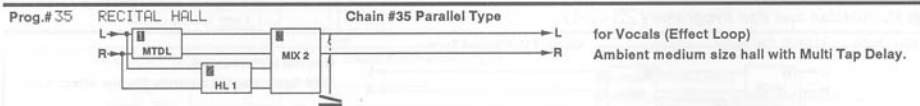


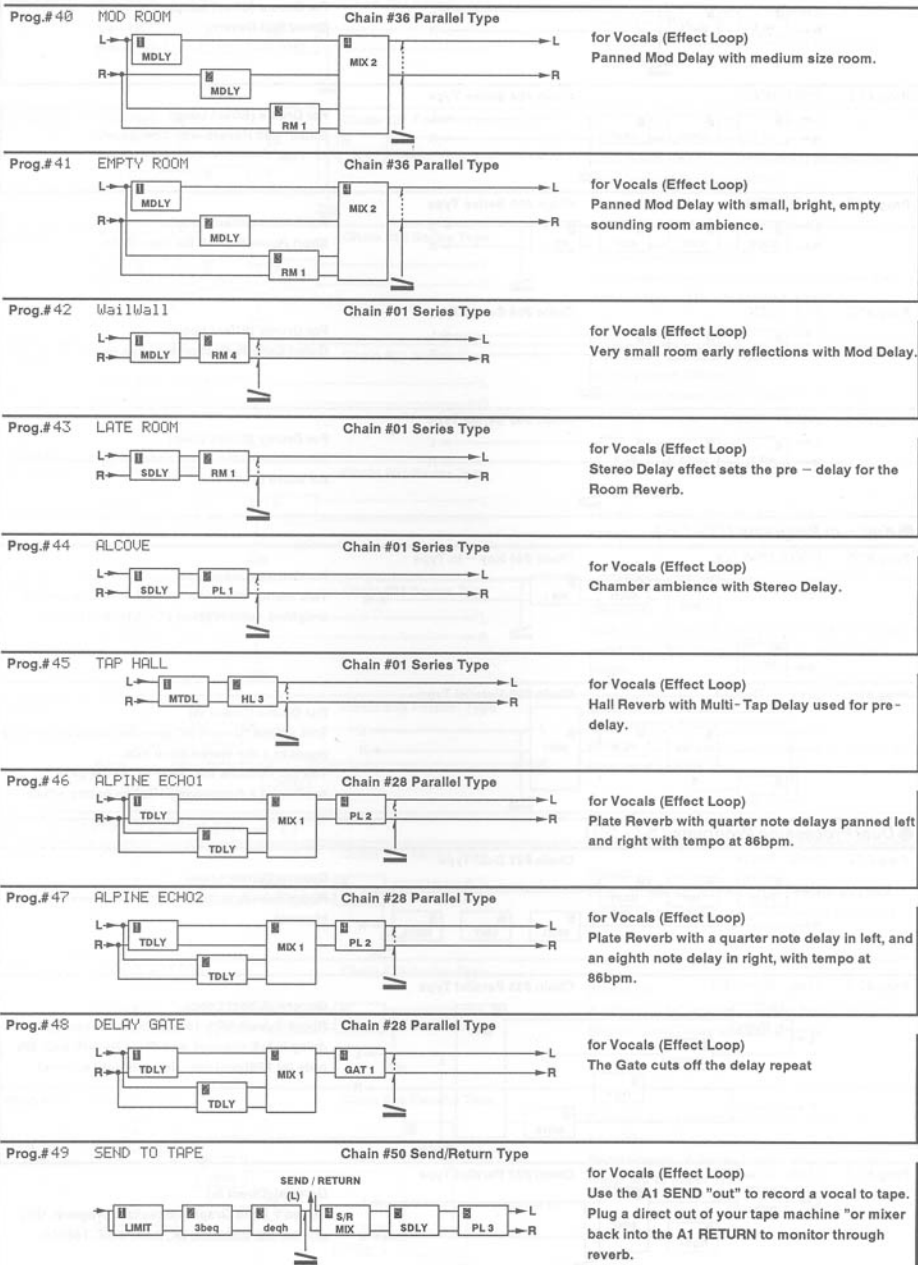
General (Effect Loop)

MIDI Controller#93 controls Flanger effect level.



### ● Vocal Programs (35~49)





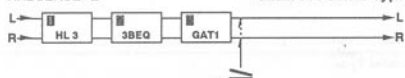
## ● Drum Programs – in Effect Loop (50~54)

Prog.#50 AMBIENCE 1 Chain #01 Series Type



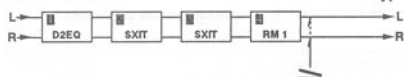
For Drums (Effect Loop)  
Gated Hall Reverb.

Prog.#51 AMBIENCE 2 Chain #04 Series Type



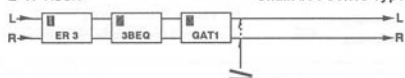
For Drums (Effect Loop)  
Gated Hall Reverb with Low boost.

Prog.#52 KICK ROOM Chain #08 Series Type



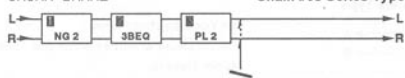
For Drums (Effect Loop)  
Short Room Reverb for bass drum.

Prog.#53 E/R KICK Chain #04 Series Type



For Drums (Effect Loop)  
Gated Early Reflection for bass drum.

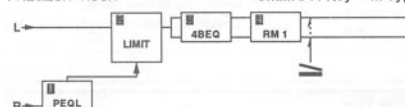
Prog.#54 CHINA SNARE Chain #05 Series Type



For Drums (Effect Loop)  
Noise Generator effect adds decay sound effect for snare drum.

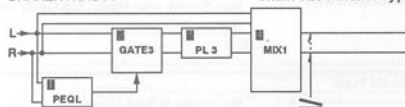
## ● Key – In Programs (55,56)

Prog.#55 FREQLIM+KICK Chain #44 Key – In Type



For Drums (Direct In)  
This mono "direct-in" program is a frequency weighted compression effect for bass drum.

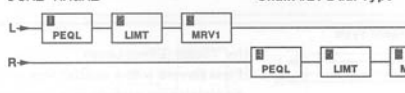
Prog.#56 SNAREXTRACT! Chain #29 Parallel Type



For Drums (Direct In)  
This stereo "direct-in" program, adds reverb to a snare in a dry stereo drum mix.  
The EQ controls the "key-in" of the gate, producing a frequency selective gating effect.

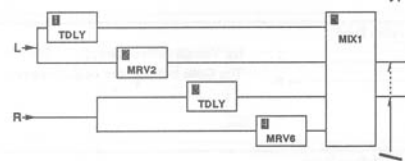
## ● Dual Processing Programs (57~59)

Prog.#57 DUAL RM&HL Chain #21 Dual Type



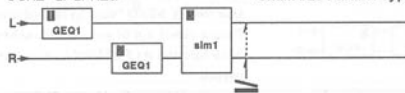
General (Effect Loop)  
Room Reverb in left channel, Hall Reverb in right channel.

Prog.#58 DUAL DLV&REV Chain #33 Parallel Type



General (Effect Loop)  
Room Reverb with 16th note (at 120bpm) pre-delay in left channel, and Plate Reverb with 8th note (at 120bpm) pre-delay in right channel.

Prog.#59 DUAL GraphEQ Chain #23 Parallel Type

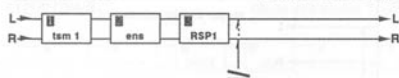


General (Direct In)  
Stereo 7 band Graphic Equalizer program. (EQ points: 80, 220, 500, 1K, 2.5K, 6.3K, 16KHz)



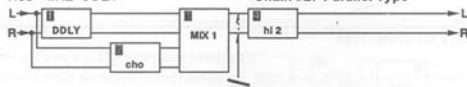
## ● Dynamic Modulation Programs (60~66)

Prog.#60 MOD\*WHL R, SP Chain #02 Series Type



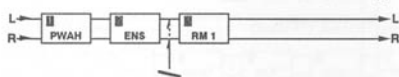
For Organ (Direct In)  
Modulation wheel (Controller#01) switches  
Rotary Speaker speed.

Prog.#61 MOD\*WHL DDLY Chain #27 Parallel Type



For Keyboard (Direct In)  
Modulation wheel (Controller#01) controls the  
Input level of the Delay effect.

Prog.#62 MOD\*WHL WAH Chain #02 Series Type



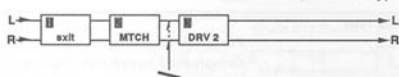
For Keyboard (Direct In)  
Modulation wheel (Controller#01) controls the  
sweep range of the Pedal Wah effect.

Prog.#63 MOD\*WHL PAN Chain #01 Series Type



For Keyboard (Direct In)  
Modulation wheel (Controller#01) controls  
panning.

Prog.#64 VELO\*DynaREV Chain #02 Series Type



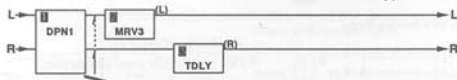
For Keyboard  
Velocity controls the input level of the Reverb  
effect.

Prog.#65 MIDI\*CLK DLV Chain #01 Series Type



(Direct In)  
MIDI Clock (from external device) sets the tempo  
parameter. The delay time is selected as note  
length.

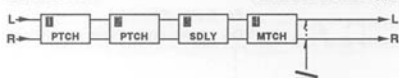
Prog.#66 MIDI\*CLK PAN Chain #39 Parallel Type



(Direct In)  
MIDI Clock (from external device) sets the tempo  
to control pan timing.

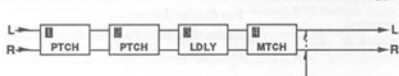
## ● Pitch Shifter Programs (67~71)

Prog.#67 ORCHESTRA Chain #12 Series Type



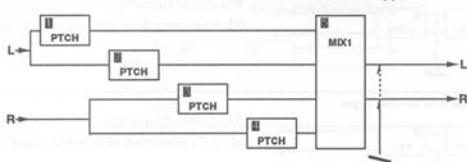
(Direct In)  
Pitch Shifter added one octave below and one  
octave up to create a huge orchestra hit sound.

Prog.#68 EXAGGERATION Chain #13 Series Type

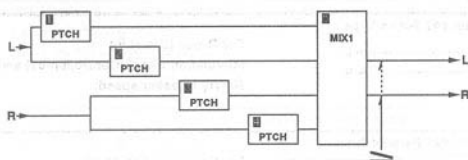


(Direct In)  
A "Direct - In" special program featuring Pitch  
Shifter, Long Delay and Tap Chorus.

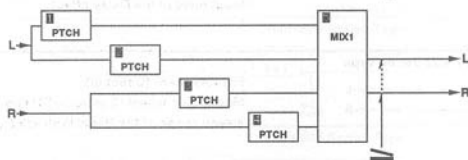
Prog.#69 MAJOR <DM> Chain #33 Parallel Type



Detuned and panned root with 3rd and 5th  
intervals.  
Pedal control of Dynamic Modulation changes  
major 3rd to minor 3rd.

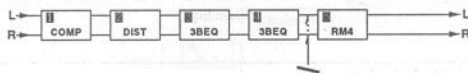


Detuned root with 5th, 6th and 3rd intervals.  
Pedal control of Dynamic Modulation changes  
major 3rd to minor 3rd.

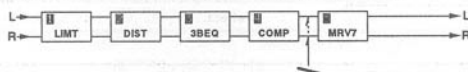


Detuned root with 3rd, 5th and 7th intervals.  
Pedal control of Dynamic Modulation changes  
major 3rd to minor 3rd.

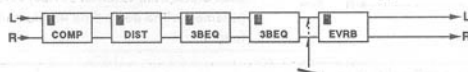
# ● Guitar Programs – Direct In (72~79)



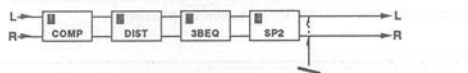
For Guitar (Direct In)  
Hi-gain amp distortion in room ambience.



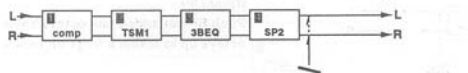
For Guitar (Direct In)  
Compressed analog distortion pedal sound.



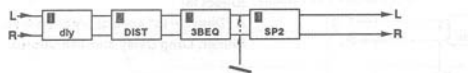
For Guitar (Direct In)  
Compact analog distortion unit simulation.



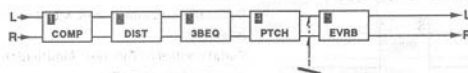
For Guitar (Direct In)  
Dry high-gain amp simulation.



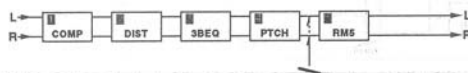
For Guitar (Direct In)  
Dry crunch rhythm amp simulation.



For Guitar (Direct In)  
Distortion with Speaker Simulation effect for  
recording.



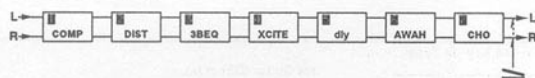
For Guitar (Direct In)  
Hi-gain distortion with octave-down pitch shift.



For Guitar (Direct In)  
Hi-gain distortion with fourth-up pitch shift.

Prog.#88 STEVE!MWH

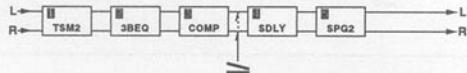
Chain #18 Series Type



for Guitar (Direct In)  
Distortion with Auto Wah effect.

Prog.#81 BLUES VIBE

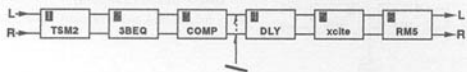
Chain #16 Series Type



for Guitar (Direct In)  
Use neck position single coil pick-up with this  
smoother overdrive sound.

Prog.#82 SmallMICDAMP

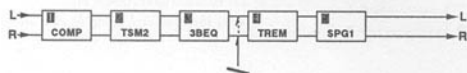
Chain #17 Series Type



for Guitar (Direct In)  
Small miked-up amp with delay in room  
ambience.

Prog.#83 TREM-De'LUXE

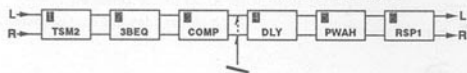
Chain #15 Series Type



for Guitar (Direct In)  
Vintage tube amp with tremolo.

Prog.#84 ROTARY WAH

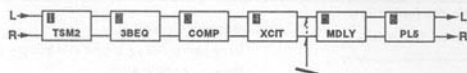
Chain #17 Series Type



for Guitar (Direct In)  
Guitar amp with wah pedal through a rotary  
speaker.

Prog.#85 SEMI-CLN MOD

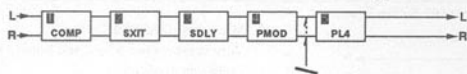
Chain #17 Series Type



for Guitar (Direct In)  
Slightly dirty and compressed with long delay  
and modulation.

Prog.#86 PitchMod+Dly

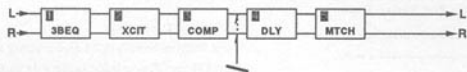
Chain #16 Series Type



for Guitar (Direct In)  
Clean compressed sound with compression and  
Pitch modulation.

Prog.#87 BRIGHT COMP

Chain #15 Series Type



for Guitar (Direct In)  
Bright clean sound, Pedal control of  
speed in Multi Tap Chorus.

Prog.#88 SWING PHASE

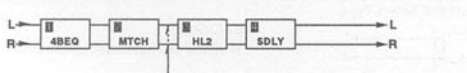
Chain #15 Series Type



for Guitar (Direct In)  
Bright clean sound with phaser and Multi tap  
chorus. Pedal control of speed in Multi tap  
chorus.

Prog.#89 NorthEastGTR

Chain #06 Series Type



for Guitar (Direct In)  
Warm clean sound with Hall reverb and slight  
Multi tap chorus.  
Pedal control of effect level in Multi tap chorus.

Prog.#90 OCEAN BLUE Chain #07 Series Type

for Guitar (Direct In)  
Delay and Multi tap delay creates a natural echo.  
Pedal control of effect level in Multi tap chorus.

Prog.#91 RIPPLE Chain #46 Key-In Type

for Guitar (Direct In)  
Highly processed sound with 5th - up pitch transposition.

### ● Bass Programs (92~94)

Prog.#92 ACTIVE BASS Chain #17 Series Type

for BASS Guitar (Direct In)  
Very bright and compressed sound for slap bass.

Prog.#93 WHANKADELIC Chain #12 Series Type

for BASS Guitar (Direct In)  
Very funky sound using Auto Wah.

Prog.#94 8veDOWN BASS Chain #12 Series Type

for BASS Guitar (Direct In)  
Pitch shifter adds one - octave below.

### ● Direct In Programs (95~99)

Prog.#95 RADIO MIX1 Chain #03 Series Type

Mix down (Direct In)  
Very compressed bright and boomy sound for radio mix application.

Prog.#96 RADIO MIX2 Chain #03 Series Type

Mix down (Direct In)  
Very compressed bright and boomy sound for radio mix application.

Prog.#97 LOUDNESS RM Chain #04 Series Type

Mix down (Direct In)  
Very compressed bright and boomy sound with slight Room Reverb for radio mix application.

Prog.#98 LOUDNESS MIX Chain #04 Series Type

Mix down (Direct In)  
Bright compressed sound with Gate.

Prog.#99 A1 EXAMPLE Chain #08 Series Type

EXAMPLE  
Program example used in manual