Owner's Manual

24bit Dual Multi Effect Processor



Introductions

Thank you very much for having purchased the Fostex DE-10.

This unit is a completely independent two channel Multi Effect Processor that employs the A. S. P.+ (Fostex Advanced Signal Processing Technology), which is newly developed by Fostex. It provides high quality ambient effects almost equivalent to a professional effect processor.

In addition to the typical Reverbs, it offers not only various practical algorithms such as Delay, Chorus, Flanger and Pitch Bend, but some combinations of these are also available, e.g., Delay+Reverb.

Also, the DE-10 offers three operation modes as "**Dual Mode**", "**Single 1 Mode**" and "**Single 2 Mode**." The "**Dual Mode**" works twice as much as an independent single channel Multi Effect Processor, which configures as 1 Input - 2 Output times two. The "**Single (1 and 2) Mode**" works as a 2 Input - 2 Output Multi Effect Processor.

You can use the unit by connecting it to the AUX Send and AUX Return of an Audio Mixer for a recording. Also you can directly connect the output from your musical instruments (Line Level only) to the unit so that it will be a useful aid in your live performance.

To fully exploit all of its many useful features and functions, we recommend you read this manual first before you start using the DE-10.



FOSTEX DE-10 Owner's Manual



"WARNING"

"TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE."

SAFETY INSTRUCTIONS

- 1. Read Instructions All the safety and operating instructions should be read before the appliance is operated.
- 2. Retain Instructions The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings All warnings on the appliance and in the operating instructions should be adhered to.
- 4. Follow Instructions All operating and use instructions should be followed.
- 5. Water and Moisture The appliance should not be used near water for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
- 6. Carts and Stands The appliance should be used only with a cart or stand that is recommended by the manufacturer.



An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

- 7. Wall or Ceiling Mounting The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
- Ventilation The appliance should be situated so that its location or position dose not interfere with its proper ventilation.
 For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- Heat The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

CAUTION:

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION:

POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

- Power Sources The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
- 11. Grounding or Polarization The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.
- 12. Power Cord Protection Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- 13. Cleaning The appliance should be cleaned only as recommended by the manufacturer.
- 14. Nonuse Periods The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
- Object and Liquid Entry Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- 16. Damage Requiring Service The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
- Servicing The user should not attempt to service the appliance beyond that described in the operating instructions.
 All other servicing should be referred to qualified service personnel.
- 18. The appliance should be situated away from drops of water or spray of water.
- 19. Objects containing liquid such as vase must not be put on the appliance.
- 20. The appliance is not completely isolated from the power supply even if the power switch is at off position.

Table of Contents

Precautions (please read before use)3
Digital Effect Functions4
The details of the preset Effects5
• Effects in DUAL mode5
L. HALL (Large Hall)
<i>S.</i> HALL (Small Hall)5 ROOM
PLATE
VOCAL
DLY+REV (Delay + Reverb)6
DELAY
MISC (Miscellaneous)
CHORUS
FLANGE
• Effects in SINGLE 1 mode8
L. HALL (Large Hall)8
S. HALL (Small Hall)8
<i>ROOM</i>
VOCAL
DLY+REV (Delay + Reverb)
DELAY9
MISC (Miscellaneous)10
CHORUS
PITCH
• Effects in SINGLE 2 mode12
L. HALL (Large Hall)
<i>S.</i> HALL (Small Hall)12 ROOM
PLATE
MIC SIM (Microphone Simulation)
AMP SIM (Amplifier Simulation)13
DISTORTION13
GUITAR MULTI 1
<i>GUITAR MULTI 2</i>
VOCAL MULTI
Names and Functions (Front panel section)16
Names and Functions (Rear panel section)17
How to use the DUAL mode18
How to use the SINGLE (1 and 2) mode19
Specifications21
Block Diagram21
Declaration of EC Directive22

Precautions (please read before use)

Power supply

- When unplugging the power cable from the AC outlet, be sure to grasp the power plug. Attempting to unplug it by pulling on the power cable may damage the wiring.
- It is dangerous to use any power cable that is cut or frayed. If the power cable is damaged, immediately stop using it, and have it repaired.
- Do not plug in or unplug the power plug with wet hands. Doing so may result in dangerous electric shock.
- Do not open the unit or touch any parts in side. Doing so may result in a dangerous electric shock, and could damage the unit.
- Do not let water or other liquids, flammable materials, or metal objects such as pins get in side the unit. These things may cause electrical shock or short circuit the DE-10, and damage it. If the DE-10 should become wet, unplug the power cable from the AC outlet, and contact your authorized service station.

Location

- Avoid using the DE-10 in the following locations:
- Locations of extreme low or high temperatures, or extreme changes in temperature.
- Locations with excessive moisture or dust.
- Locations where direct sunlight falls for an extended time, or near a stove or other source of heat.
- Locations where electrical voltage varies.
- Unstable locations or where there is heavy vibration.
- Near strong magnetic fields (on top of a television or speaker).

Digital Effect Functions

The DE-10 achieves superb ambience effects by employing the Fostex A.S.P. (Fostex Advanced Signal Processing Technology*), as well as simulations of microphones/amplifiers with overwhelming reality by employing the newly developed "A.S.P. +".

*A. S. P. (Fostex Advanced Signal Processing Technology)

The A. S. P. is an exclusive new digital effect processing technology designed by Fostex. This method extracts maximum efficiency from the limited DSP power. It achieves an overwhelmingly high density Early Reflection sound and wonderfully smooth High Dump response through the H. F. A. (Harmonic Feedback Algorithm). Also, it carries out an elaborate reverb simulation with clear sounds through the H. D. L. P. (Hi-Density Logarithmic Processing), which eliminates the mutual interference between the numerous integrated delay modules and reduce the impurity and grit of the sound.

*H. F. A. (Harmonic Feedback Algorithm)

There is one of indispensable elements in the natural echo called "Early Reflection sound", which is usually sacrificed in commercial reverb products in order to reduce costs. (In practice, the Early Reflection sound means the very first reverberated sound that bounces back from walls, floors and ceilings of concert halls). The entire reverb sound quality depends on this Early Reflection sound and how closely it can resemble the real echo. The H. F. A. is an algorithm that enables the effect unit to reproduce a clear and natural Early Reflection sound by applying an ideal harmonic feedback to each delay module.

*H. D. L. P. (Hi-Density Logarithmic Processing)

The reverb sounds consist of lots of small delay elements combined in a complex way, which are produced by many delay modules inside the effect unit. In order to obtain smooth and comfortable reverb sounds, it is very important to efficiently organize the relationship between each delay module and minimize negative mutual interference. The H. D. L. P. is a technology which applies efficient logarithmic processing to each delay module, so that they can work in the most efficient way in order to eliminate harmful reverb elements and roughness. This makes it possible to establish high density and transparent sounds.

About "A.S.P.+"

Combining the ambience effect technology established through the development of "A.P.S." with acoustic theories accumulated through the development of transducers such as monitor speakers for many years, Fostex developed a unique simulation algorithm engine called "A.S.P.+", which performs overwhelmingly realistic microphone/amplifier simulation. To simulate a microphone, the frequency response of the microphone, which is the most essential factor that decides the sound character of each famous/popular microphone, must be reproduced correctly. To get this, "A.P.S.+" carries out a double accuracy operation for each frequency range using the unique "D.A.O." (Double Accuracy Operation). Regarding a guitar amplifier, the peak and dip of the specific frequencies, as well as feedback of the peak frequency's harmonics, are the most essential factors that decide the sound character of each famous/popular amplifier. To simulate such a unique character, "A.P.S.+" carries out a double accuracy operation for each frequency range using the "D.A.O." (Double Accuracy Operation) to simulate the frequency curve, as well as carries out harmonics feedback processing using the "H.F.A." (Harmonics Feedback Algorithm).

Reverb:

The so called Reverb effect consists of various reflection sounds mixed together. For example, when you clap your hands in a tunnel, you will hear the sound linger even after you stop clapping your hands. This is the Reverb. The sounds we normally hear in daily life have three types of sounds mixed together, i.e., "Direct sound", Early Reflection sound" and "Late Reflection sound". The Direct sound means the sound directly reaches the ears from the sound source. The Early Reflection sound means the sound that comes after the Direct sound and has rebound off the wall of the tunnel up to a few times. The Late Reflection sound means that the sound rebounds many times long after the Direct sound has disappeared. Our ears normally hear the "Direct sound" -"Early Reflection sound" - "Late Reflection sound" in that order.

Delay:

This is the effect to add a delayed sound to the original sound. You can obtain a richer sound or completely change the original source sound by using the Delay.

Pitch:

The Pitch basically means the frequency of the audio. But, in the case of an effect unit, it works this way; for instance, you can amend the vocal tone by changing the Pitch lifting or dropping as much as an octave. Also, you can obtain some unusual effects by mixing the shifted Pitch sound and the original sound together.

Chorus:

This makes the one original sound appear to have many sources. The Chorus is used to widen or thicken the original sound.

Flanger:

The Flanger is one of applications of the Delay. This is used to create a sound like a jet airplane ascending or descending.

Distortion:

The distortion effect distorts the sound and adds harmonics. Four types of the distortion effect are provided: the guitar distortion, bass distortion, drum distortion and voice distortion. The distortion is used for the insert effect.

Simulation:

Simulators for famous guitar amplifiers and microphones are provided. You can get a familiar distortion sound of a famous guitar amplifier or a popular microphone sound. A simulator can be used for the insert effect.

The Details of the Preset Effects

The DE-10 has 11 preset Effect Types available on both the Dual Mode and Single 1/2 Mode. Each Effect Type further offers a maximum of 11 variations. See Operations on page 18 and 19 for how to set up the Preset Effects.

Effects in DUAL MODE

L.HALL (Large Hall)	
L.HALL 1 (Natural Large Hall) L.HALL 2 (Lo-Freq Large Hall) L.HALL 3 (Vivid Large Hall) L.HALL 4 (Hard-Wall Large Hall) L. HALL 5 (Soft-Wall Large Hall) L. HALL 5 (Soft-Wall Large Hall) L. HALL 6 (Long Pre-Delay Large Hall) L. HALL 6 (Long Pre-Delay Large Hall) L. HALL 7 (Cave) L. HALL 8 (Stadium) L. HALL 9 (Vivid Stadium) L. HALL 9 (Vivid Stadium) L. HALL 10 (Auditorium) L. HALL 11 (Big Cave) * [ADJUST] knob: Adjust the Rev	 Conventional large hall, with sonic detail, clarity, and an appropriate amount of early reflections. Large hall with lingering low-frequency reverb components. Reverb with crispness and good presence. Large hall surrounded by hard walls, many early reflections, and a strong high-frequency ratio. Reverb with restrained high-frequency range and gentle character. Reverb with an extremely long pre-delay time, simulating a fairly broad space. Reverb simulating a cave. Perhaps the thick moss accounts for the excellent high-frequency absorption! Stadium reverb with many long early reflections. Stadium reverb with a dry character. Reverb simulating a space with little reverberation, such as a large auditorium. Simulates a more spacious volume than the cave of L. HALL 7. Reverb time is longer.
S. HALL (Small Hall)	
S. HALL 1 (Natural Small Hall) S. HALL 2 (Lo-Freq Small Hall) S. HALL 3 (Vivid Small Hall) S. HALL 4 (Hard-Wall Small Hall) S. HALL 5 (Soft-Wall Small Hall) S. HALL 5 (Soft-Wall Small Hall) S. HALL 6 (Long Pre-Delay Small Hall) S. HALL 6 (Long Pre-Delay Small Hall) S. HALL 7 (Narrow Small Hall) S. HALL 7 (Narrow Small Hall) S. HALL 8 (Dead Hall) S. HALL 9 (Small Stadium) S. HALL 10 (Out Door Stage) S. HALL 11 (Flat Reverb) * [ADJUST] knob: Adjust the Rev	 Conventional small hall with sonic detail, clarity, and an appropriate amount of early reflections. Small hall with lingering low-frequency reverb components. General-purpose small hall with crisp sound and few early reflections. Small hall surrounded by hard walls, many early reflections, and a strong high-frequency ratio. Small hall with little high-frequency range. Small hall simulating a long and narrow space where the reverberation is concentrated in the cente Relatively "dead" small hall with a low high-frequency ratio. Small hall simulating a space with low-density reverberation such as a gymnasium. Simulation of an outdoor stage. Extremely small amount of reverberation. Small hall with no early reflections, and the entire frequency range decays in the same way.
	OUTPUT (R)
ROOM	
ROOM 1 (Natural Room) ROOM 2 (Garage) ROOM 3 (Dead Room)	 Conventional room reverb simulating a nice space with just enough "sparkle." Room reverb with crisp presence simulating a small, live space such as a garage. Room reverb simulating a small, dead room. Add just a bit of this to give warmth to a sound. Ideal for narrations.
ROOM 4 (Live Room) ROOM 5 (Vivid Room) ROOM 6 (Off Mic) ROOM 7 (Hard Wall Drum Booth) ROOM 8 (Wood Wall Drum Booth) ROOM 9 (Live House) ROOM 10 (Back-Stage) ROOM 11 (Hi-Freq Room)	 Room reverb simulating a live space with low-density reverberation. All-purpose room reverb with few early reflections and good definition. Room reverb with reverberation concentrated in the center. Room reverb simulating a drum booth with hard walls. Crisp, and good for percussion as well. Room reverb simulating a drum booth with a boost in the low to mid-ranges. Room reverb simulating a small club. Room reverb simulating the sound back-stage. Room reverb with unique character in the mid-range.
* [ADJUST] knob: Adjust the Rev	verb Time.
	INPUT → ROOM → OUTPUT (R)

FOSTEX DE-10 Owner's Manual

• PLATE

PLATE 1 (Normal Plate) PLATE 2 (Old Plate) PLATE 3 (Vivid Plate) PLATE 4 (Lo-Freq Plate) PLATE 5 (Sharp Plate) PLATE 6 (Mono Plate) PLATE 7 (Dark Plate) PLATE 8 (Hi-Freq Plate) PLATE 9 (Mid-Freq Plate)	 Contemporary-feeling plate reverb with a wide bandwidth. Conventional plate reverb with the character of classic plate devices. Crisp plate reverb with extended highs. Plate reverb with a gentle character. Plate reverb with only the high-frequency component. Plate reverb panned to the center. Plate reverb with rapidly decaying highs and lingering lows. Plate reverb with unique character in the high range. Plate reverb with unique character in the mid range. 		
PLATE 10 (Large E/R Plate) PLATE 11 (Flat Plate)	Plate reverb emphasizing a digital feel, with metallic-sounding early reflection. Plate reverb with low-density reverberation.		
* [ADJUST] knob: Adjust th			

• VOCAL

VOCAL 1 (Standard Vocal)	The early reflections of an ideal vocal booth plus short reverberation with extended high range. This adds sparkle to the sound, and is effective when you want to make the vocal stand out in the ensemble.		
VOCAL 2 (Karaoke)	: All-around reverb that makes any vocal sound great (!?)		
VOCAL 3 (Vocal Booth)	: The early reflections of an ideal vocal booth plus short reverberation. This adds a natural feeling of air, and is effective with simple arrangements with an unhurried vocal.		
VOCAL 4 (Warm Vocal)	: Reverb with a short delay and a plate character. Adds depth to the sound.		
VOCAL 5 (Diffusion Vocal)	: Spacious stadium-type early reflections plus short reverberation with extended high range. Good for chorus parts.		
VOCAL 6 (Natural Vocal)	: Easy to use vocal reverb with moderate delay and reverberation.		
VOCAL 7 (Vivid Vocal)	: Reverb that adds depth and spaciousness to the sound. A good high range makes this ideal for chorus parts as well.		
VOCAL 8 (Wet Vocal)	A short delay plus a gentle reverb. Recommended for slow songs.		
VOCAL 9 (Doubling Vocal)	Spacious short delay plus a reverb with a real plate character. Blends naturally into any background.		
VOCAL 10 (Dry Vocal)	Spacious short delay plus short reverberation.		
VOCAL 11 (Stadium Vocal)	: Stadium-type early reflection plus majestic reverb. Adds depth and spaciousness to a vocal.		
* [ADJUST] knob: Adjust t	ne Reverb Time		
process failed. August th	OUTPUT (L)		
	INPUT - VOCAL		
	OUTPUT (R)		

• DLY+REV (Delay+Reverb)

• DLT+REV (Delay+Reverb)	
DLY+REV 1 (Mono Delay+Hall Rever DLY+REV 2 (L-R Delay+Hall Reverb) DLY+REV 3 (Diffusion Delay+Hall Rev DLY+REV 4 (Mono Delay+Room Rever DLY+REV 5 (L-R Delay+Room Rever DLY+REV 5 (L-R Delay+Room Rever DLY+REV 7 (Mono Delay+Plate Rever DLY+REV 7 (Mono Delay+Plate Rever DLY+REV 8 (L-R Delay+Plate Rever DLY+REV 9 (Diffusion Delay+Plate R DLY+REV 10 (Mono Single Delay+Plate	 Panning delay + hall reverb. Spacious delay + hall reverb. Spacious delay + noom reverb. Mono delay + room reverb. Panning delay + room reverb. Spacious delay + pom reverb. Mono delay + plate reverb. Mono delay + plate reverb. Spacious delay + plate reverb. Spacious delay + plate reverb. Spacious delay + plate reverb. Mono delay (without feedback) + plate reverb.
* [ADJUST] knob: Adjust the D	elay Time. INPUT
DELAY 1 (Mono Delay) DELAY 2 (L-R Delay) DELAY 3 (Diffusion Delay) DELAY 3 (Diffusion Delay) DELAY 4 (Mono Single Delay) DELAY 5 (L-R Single Delay) DELAY 6 (Diffusion Single Delay) DELAY 7 (Mono Doubling) DELAY 7 (Mono Doubling) DELAY 8 (Diffusion Doubling) DELAY 9 (Lo-Freq Delay) DELAY 10 (Hi-Freq Delay 1) DELAY 10 (Hi-Freq Delay 2) * [ADJUST] knob: Adjust the D	 Typical mono delay with moderate feedback. Typical panning delay with moderate feedback. Spacious mono delay with moderate feedback. Typical mono delay without feedback. Typical panning delay without feedback. Spacious mono delay without feedback. Delay Type 1 with only the high-frequency components.

DE-10 Owner's Manual FOSTEX

• MISC (Miscellaneous)

MISC 1 (Random E/R)	Random early reflections. When natural feeling of air and space.	applied to instrumen	its with a slow a	ttack, this produces a
MISC 2 (Soft Random E/R)	Random early reflections. Less h	high range than MISC	C1, so suitable f	or backing tracks.
MISC 3 (Tight Random E/Ŕ)	: Random early reflections with or			5
MISC 4 (Long E/R)	Miraculous ambience that could	not exist in the real v		reflections that continue
MISC 5 (Short E/R)	 without being covered by reverbe Random early reflections at clos spaciousness to pad-type sound 	e spacing appear all	at once. Effectiv	e for giving natural
MISC 6 (Large Hall E/R)	: Early reflections of a large hall.	5.		
MISC 7 (Soft Large Hall E/R)	Early reflections of a large hall.	Contlor cound than M		
MISC 8 (Small Hall E/R)	Early reflections of a small hall.		1130 4.	
		Contlar cound than N		
MISC 9 (Soft Small Hall E/R)	Early reflections of a small hall.			
MISC 10 (Reverse E/R) MISC 11 (Gate Reverb)	 Early reflections of reverse rever Gated early reflection with a cris 		or brass section	
* [ADJUST] knob: Adjust the size of t	-	INPUT	MISC	
				→ OUTPUT (R)
• CHORUS				
CHORUS 1 (Natural Chorus)	: Conventional chorus with fairly s spaciousness and depth without			
	: Chorus with greater depth. Suita electric piano, etc.			nodify the sound of an
CHORUS 3 (Doubling Chorus)	: Conventional chorus, plus a dou	bling effect created b	y a short delay.	
CHORUS 4 (Mono Chorus)	: Light chorus panned to center. A	dds natural depth an	nd warmth to voo	cals or sax, etc.
CHORUS 5 (Mono Doubling Chorus)	The effect of CHORUS 4 plus a	doubling effect create	ed by a short de	lay.
CHORUS 6 (Mono Deep Chorus)	Deep chorus panned to center. E	ffective for adding bo	ody to a center-p	anned instrument such as
CHORUS 7 (Mono Deep Doubling Chorus)	bass.	doubling effect create	ad by a short de	lav
CHORUS 8 (Hi-Freq Chorus)	: Chorus applied only to the high-		eu by a short de	iay.
	Chorus applied only to the low-fr		obifting the nite	
CHORUS 10 (Mono Delay Chorus)	: Pitch chorus that adds depth to t		shining the pitch	1.
CHORUS 11 (L-R Delay Chorus)	: Pitch chorus panned to the center	er.		1
* [ADJUST] knob: Adjust the depth o	f the chorus.	INPUT	CHORUS	OUTPUT (L)
				→ OUTPUT (R)
• PITCH				
PITCH 1—3 (Pitch +/- 1oct.)	Pitch shift with a variable range	of ⊥/-1 octave. (No ni	tch shift when A	D IIIST – O)
	Select one of three variations: P			
	is clearest.	(
PITCH 4—6 (Pitch Shift Up)	Pitch shift with a variable range of	of 0— +2 octaves. (+	1 octave when A	$\Delta DJUST = 0.)$
	Select one of three variations: P	ITCH 4 is normal, PI	ICH 5 has faste	r response, and PITCH 6
	is clearest.			
PITCH 7—9 (Pitch Shift Down)	Pitch shift with a variable range			
	Select one of three variations: P	TCH / is normal, PI	ICH 8 has faste	r response, and PITCH 9
	is clearest.	6 //		
PITCH 10 (Pitch Delay)	Pitch shift with delayed feedback	0 1		0
PITCH 11 (SFX Pitch)	Pitch shift that produces a strang	je effect like a simula	tion of a space a	alien. We recommend that
	you set ADJUST to 0.			-
* [AD IIIET] knoby Adjust the amount	of pitch chapter $1/1$ octave			OUTPUT (L)
* [ADJUST] knob: Adjust the amount	of pitch change. +/-1 octave.	INPUT	- PITCH	
				OUTPUT (R)
				-
• FLANGE				
FLANGE 1 (Dual Flange)	: Dual flanging in which two e and right. Deep feedback.	ffect sounds with diffe	erent modulatior	phase are heard from left
FLANGE 2 (Dual Flange Lo-Feedback)	: Dual flanging. Light feedback.	\r \r		
FLANGE 3 (Dual Flange No-Feedback)	: Dual flanging. Almost no fee			
FLANGE 4 (Lo-Freq Flange)	: Flanging with modulation in		ompopont Door	foodback
FLANGE 5 (Double Width Flange Lo-Feedba				
FLANGE 5 (Double Width Hange Lo-reedba	: Flanging applied only to the			ieeuback.
FLANGE 6 (HI-FIER Flange) FLANGE 7 (Lo-Freq Flange)	: Flanging applied only to the			
FLANGE 7 (LO-Freq Flange) FLANGE 8 (Mono Dual Flange)	: Two types of flanging heard			
FLANGE 8 (Mono Dual Flange) FLANGE 9 (Mono Dual Flange Lo-Feedback				
FLANGE 9 (Mono Dual Flange Lo-Feedback FLANGE 10 (Mono Single Flange)	: One effect heard from the c			
FLANGE 10 (Mono Single Flange) FLANGE 11 (Mono Single Flange Lo-Feedb				
LANGE IT WOND SINGLE FIANGE LO-FEEDD	any. One energineard norm the c	CITEL LIGHT RECORDER	с. Г	I
* [ADJUST] knob: Adjust the modula	tion speed of the flanging			> OUTPUT (L)
	and speed of the hunging.	INPUT	FLANGE	
				- OUTPUT (R)

Effects in SINGLE 1 MODE

• L. HALL (Large Hall)

L. HALL 1 (Natural Large Hall)	: Same as DUAL mode L. HALL 1, but higher density reverberation.	
L. HALL 2 (Lo-Freq Large Hall)	: Same as DUAL mode L. HALL 2, but higher density reverberation.	
L. HALL 3 (Vivid Large Hall)	: Same as DUAL mode L. HALL 3, but higher density reverberation.	
L. HALL 4 (Hard-Wall Large Hall)	: Same as DUAL mode L. HALL 4, but higher density reverberation.	
L. HALL 5 (Soft-Wall Large Hall)	: Same as DUAL mode L. HALL 5, but higher density reverberation.	
L. HALL 6 (Long Pre-Delay Large Hall)	: Same as DUAL mode L. HALL 6, but higher density reverberation.	
L. HALL 7 (Cave)	: Same as DUAL mode L. HALL 7, but higher density reverberation.	
L. HALL 8 (Stadium)	: Same as DUAL mode L. HALL 8, but higher density reverberation.	
L. HALL 9 (Vivid Stadium)	: Same as DUAL mode L. HALL 9, but higher density reverberation.	
L. HALL 10 (Auditorium)	: Reverb simulating a space with little reverberation, such as a large auditorium.	
L. HALL 11 (Big Cave)	: Simulates a more spacious volume than the cave of L. HALL 7. Reverb time is longer.	
 * [EFFECT 1_ADJUST] knob (PARAM.1): Adjust the Reverb Time. * [EFFECT 2_ADJUST] knob (PARAM.2): Adjust the E/R Level. * [EFFECT 2_MIX] knob (PARAM.3): Adjust the Character. 		

INPUT 2=

►OUTPUT 1 (R)

• S. HALL (Small Hall)

(******	
S. HALL 1 (Natural Small Hall) S. HALL 2 (Lo-Freq Small Hall) S. HALL 3 (Vivid Small Hall) S. HALL 4 (Hard-Wall Small Hall) S. HALL 5 (Soft-Wall Small Hall) S. HALL 5 (Soft-Wall Small Hall) S. HALL 6 (Long Pre-Delay Small Hall) S. HALL 7 (Narrow Small Hall) S. HALL 7 (Narrow Small Hall) S. HALL 8 (Dead Hall) S. HALL 8 (Dead Hall) S. HALL 9 (Small Stadium) S. HALL 9 (Small Stadium) S. HALL 10 (Out Door Stage) S. HALL 11 (Flat Reverb) * [EFFECT 1_ADJUST] knob (PAI * [EFFECT 2_MIX] knob (PARAM	 Same as DUAL mode S. HALL 7, but higher density reverberation. Same as DUAL mode S. HALL 8, but higher density reverberation. Same as DUAL mode S. HALL 9, but higher density reverberation. Simulation of an outdoor stage. Extremely small amount of reverberation. Small hall with no early reflections, and the entire frequency range decays in the same way. RAM.1): Adjust the Reverb Time. RAM.2): Adjust the E/R Level.
ROOM	
ROOM 1 (Natural Room) ROOM 2 (Garage)	 Same as DUAL mode ROOM 1, but higher density reverberation. Same as DUAL mode ROOM 2, but higher density reverberation.
ROOM 3 (Dead Room)	: Same as DUAL mode ROOM 3, but higher density reverberation.
ROOM 4 (Live Room)	: Same as DUAL mode ROOM 4, but higher density reverberation.
ROOM 5 (Vivid Room)	: Same as DUAL mode ROOM 5, but higher density reverberation.
ROOM 6 (Off Mic)	: Same as DUAL mode ROOM 6, but higher density reverberation.
ROOM 7 (Hard Wall Drum Booth)	: Same as DUAL mode ROOM 7, but higher density reverberation.
ROOM 8 (Wood Wall Drum Booth)	: Same as DUAL mode ROOM 8, but higher density reverberation.
ROOM 9 (Live House)	: Same as DUAL mode ROOM 9, but higher density reverberation.

Amazing room reverb with a light flanging effect

ROOM 10 (Back Stage) ROOM 11 (Hi-Freq Room) : Special reverb with flanging applied to the early reflections of the room.

* [EFFECT 1_ADJUST] knob (PARAM.1): Adjust the Reverb Time.

- * [EFFECT 2_ADJUST] knob (PARAM.2): Adjust the E/R Level.
- * [EFFECT 1_MIX] knob (PARAM.3): Adjust the Character.



• PLATE

PLATE 1 (Normal Plate) PLATE 2 (Old Plate)	: Same as DUAL mode PLATE 1, but higher density reverberation. : Same as DUAL mode PLATE 2, but higher density reverberation.
PLATE 3 (Vivid Plate) PLATE 4 (Lo-Freq Plate)	 Same as DUAL mode PLATE 3, but higher density reverberation. Same as DUAL mode PLATE 4, but higher density reverberation.
PLATE 5 (Sharp Plate) PLATE 6 (Mono Plate)	 Same as DUAL mode PLATE 5, but higher density reverberation. Same as DUAL mode PLATE 6, but higher density reverberation.

PLATE 7 (Dark Plate) PLATE 8 (Hi-Freq Plate) PLATE 9 (Mid-Freq Plate) PLATE 10 (Large E/R Plate) PLATE 11 (Flat Plate)	 Same as DUAL mode PLATE 7, but Same as DUAL mode PLATE 8, but Same as DUAL mode PLATE 9, but Unusual plate reverb with a light flan Special reverb with an aggressive flat 	higher density reve higher density reve ging effect applied.	rberation. rberation.	
* [EFFECT 1_ADJUST] knob (PARAM.1 * [EFFECT 2_ADJUST] knob (PARAM.2 * [EFFECT 2_MIX] knob (PARAM.3):		INPUT 1	PLATE	OUTPUT 1 (L)
• VOCAL				
VOCAL 1 (Standard Vocal) VOCAL 2 (Karaoke) VOCAL 3 (Vocal Booth) VOCAL 4 (Warm Vocal) VOCAL 5 (Diffusion Vocal) VOCAL 6 (Natural Vocal) VOCAL 7 (Vivid Vocal) VOCAL 7 (Vivid Vocal) VOCAL 8 (Wet Vocal) VOCAL 9 (Doubling Vocal) VOCAL 10 (Dry Vocal) VOCAL 11 (Stadium Vocal)	 Same as DUAL mode VOCAL 1, but Same as DUAL mode VOCAL 2, but Same as DUAL mode VOCAL 3, but Same as DUAL mode VOCAL 4, but Same as DUAL mode VOCAL 5, but Same as DUAL mode VOCAL 6, but Same as DUAL mode VOCAL 7, but Same as DUAL mode VOCAL 8, but Same as DUAL mode VOCAL 9, but Mysterious reverb with a light flangin Mysterious reverb with a light flangin 	higher density reve higher density reve higher density reve higher density reve higher density reve higher density reve higher density reve g effect applied to	erberation. erberation. erberation. erberation. erberation. erberation. erberation. erberation. VOCAL 1.	
* [EFFECT 1_ADJUST] knob (PARAM.1 * [EFFECT 2_ADJUST] knob (PARAM.2 * [EFFECT 2_MIX] knob (PARAM.3):		INPUT 1	VOCAL	OUTPUT 1 (L)

DE-10 Owner's Manual FOSTEX

• DLY + REV (Delay + Reverb)

DLY+REV 1 (Mono Delay + Reverb) DLY+REV 2 (Long Mono Delay + Reverb) DLY+REV 3 (L-R Delay + Reverb) DLY+REV 4 (Long L-R Delay + Reverb) DLY+REV 5 (Short Delay + Reverb) DLY+REV 5 (Short Delay + Reverb) DLY+REV 6 (Lo-Freq Mono Delay) DLY+REV 7 (Hi-Freq L-R Delay) DLY+REV 8 (Lo-Freq L-R Delay) DLY+REV 9 (Hi-Freq L-R Delay + Reverb)	 Mono delay with reverberation. Long mono delay with reverberation. Panning delay with reverberation. Long panning delay with reverberation. Short delay with reverberation. Mono delay only for the low frequency range. Mono delay only for the high frequency range. Panning delay only for the high frequency range.
<pre>DLY+REV 11 (Hi-Freq L-R Delay + Reverb) * [EFFECT 1_ADJUST] knob (PARAM. * [EFFECT 2_ADJUST] knob (PARAM. * [EFFECT 2_MIX] knob (PARAM.3):</pre>	: Panning delay only for the high frequency range, with reverberation. 1): Adjust the Delay Time.
	INPUT 1> DELAY> OUTPUT 1 (L) INPUT 2> OUTPUT 1 (R)

• DELAY

DELAY 1 (Stereo Long Delay)	: Long stereo delay with maintaining the stereo image.
DELAY 2 (Stereo Delay)	Mid stereo delay with maintaining the stereo image.
DELAY 3 (Stereo Short Delay)	: Short stereo delay with maintaining the stereo image.
DELAY 4 (Mono Long Delay)	: Mono long delay.
DELAY 5 (Mono Delay)	: Mono short delay.
DELAY 6 (L-R Long Delay)	: Long panning delay.
DELAY 7 (L-R Delay)	: Short panning delay.
DELAY 8 (Diffusion Long Delay)	: Long diffusion delay.
DELAY 9 (Diffusion Delay)	: Short diffusion delay.
DELAY 10 (Doubling)	: Center-panned doubling
DELAY 11 (Diffusion Doubling)	: Diffusion doubling.
* [EFFECT 1_ADJUST] knob (PARAM * [EFFECT 2_ADJUST] knob (PARAM	
* [EFFECT 2_MIX] knob (PARAM.3):	

• MISC (Miscellaneous)

MISC 1 (Random E/R)	indom E/R) : Random early reflections. When applied to instruments with a slow attack, this produces a natural feeling of air and space.					
MISC 2 (Soft Random E/R)	:	Random early reflections. Less high ran	Random early reflections. Less high range than MISC 1, so suitable for backing tracks.			
MISC 3 (Tight Random E/R)	:	Random early reflections with only high	n-frequency com	ponents.	-	
MISC 4 (Long E/R)	:	Miraculous ambience that could not exist in the real world, with early reflections that continue without being covered by reverberant components.				
MISC 5 (Short E/R)	 Random early reflections at close spacing appear all at once. Effective for giving natural spaciousness to pad-type sounds. 			for giving natural		
MISC 6 (Large Hall E/R)	:	: Early reflections of a large hall.				
MISC 7 (Soft Large Hall E/R)	:	Early reflections of a large hall. Gentler	sound than MIS	C 4.		
MISC 8 (Small Hall E/R)	:	Early reflections of a small hall.				
MISC 9 (Soft Small Hall E/R)	(/R) : Early reflections of a small hall. Gentler sound than MISC 6.					
MISC 10 (Reverse E/R) : Early reflections		Early reflections of reverse reverb. Effe	ctive on vocal or	brass section.		
MISC 11 (Gate Reverb)	:	Gated early reflection with a crisp cuto	ff.			
 * [EFFECT 1_ADJUST] knob (PARAM, * [EFFECT 2 ADJUST] knob (PARAM, 			INPUT 1	MISC	OUTPUT 1 (L)	
* [EFFECT 2_MIX] knob (PARAM.3):	,.	Adjust the Character.	INPUT 2		OUTPUT 1 (R)	

• CHORUS

CHORUS 1 (3D Chorus) CHORUS 2 (Doubling Chorus) CHORUS 3 (Mono Chorus) CHORUS 4 (Thin Chorus) CHORUS 5 (Thin Doubling Chorus) CHORUS 6 (Deep Chorus) CHORUS 7 (Deep Doubling Chorus) CHORUS 7 (Deep Doubling Chorus) CHORUS 8 (Warm Chorus) CHORUS 9 (Mono Warm Chorus) CHORUS 10 (SFX Chorus 1) CHORUS 11 (SFX Chorus 2)		Simulation of an analog three-phase of CHORUS 1 plus a doubling effect prod Center-panned chorus. Ideal for vocals Clean thin chorus CHORUS 4 plus a doubling effect prod Deep chorus CHORUS 4 plus a doubling effect prod Complex chorus using the feedback all Center-panned chorus of CHORUS 8. SFX chorus 1. Suitable for strings, Pad SFX chorus 2. Suitable for strings, Pad	uced by a short of or sax. uced by a short of uced by a short of gorithm. , etc.	delay. delay.	nd depth.
* [EFFECT 1_ADJUST] knob (PARAM.					
* [EFFECT 2_ADJUST] knob (PARAM.) * [EFFECT 2 MIX] knob (PARAM.3):	2):	Not used. Not used.		CHORUS	OUTPUT 1 (L)
• _ • • • • • • • • • • • • • • • • • •			INPUT 2-	GIOROS	→OUTPUT 1 (R)

• PITCH

00 • •	tereo pitch shift with maintaining the stereo image. Can be shifted within the range of +/- one ctave. The internal processing of each type differs, resulting in the sound character difference. Pitch 1: Recommended for general use. Pitch 2: Recommended for use when the pitch variation is small, to get a smooth sound. Pitch 3: Recommended for use when you do not want to alter the tone character. Note that, however, a delay is generated.				
pr •	 Dual pitch shift. You can hear the two different pitch shifted sound from the center. The internal processing of each type differs, resulting in the sound character difference. Pitch 4: Recommended for general use. Pitch 5: Recommended for use when the pitch variation is small, to get a smooth sound. Pitch 6: Recommended for use when you do not want to alter the tone character. Note that, however, a delay is generated. 				
hi sc •	ual pitch shift. You can hear the two different pitch shifted sound from the center. One octave gher than PITCH(es) 4 through 6. The internal processing of each type differs, resulting in the bund character difference. Pitch 7: Recommended for general use. Pitch 8: Recommended for use when the pitch variation is small, to get a smooth sound. Pitch 9: Recommended for use when you do not want to alter the tone character. Note that, however, a delay is generated.				
	ual pitch shift with long delay feedback. You can adjust two pitches and pitch adjustment. ual pitch shift with short delay feedback. You can adjust two pitches and pitch adjustment.				
<pitch-1, 2,="" 3=""> * [EFFECT 1_ADJUST] knob (PARAM.1): * [EFFECT 2_ADJUST] knob (PARAM.2): * [EFFECT 2_MIX] knob (PARAM.3):</pitch-1,>	Adjust the Pitch. Not used. INPUT 1 → PITCH → OUTPUT 1 (L)				
<pitch-14, 10,="" 11="" 5,="" 6,="" 7,="" 8,="" 9,=""> * [EFFECT 1_ADJUST] knob (PARAM.1): * [EFFECT 2_ADJUST] knob (PARAM.2): * [EFFECT 2_MIX] knob (PARAM.3):</pitch-14,>					

10

• FLANGE

FLANGE 1 (Stereo Flange)	: Stereo flanger which applies flanging effect while maintaining the stereo image. Slow rate.
FLANGE 2 (Stereo Flange <faster>)</faster>	: Stereo flanger which applies flanging effect while maintaining the stereo image. Fast rate.
FLANGE 3 (Stereo Dual Flange)	: Stereo flanger which applies two (normal and reverse) flanging effects while maintaining the stereo image. Slow rate.
FLANGE 4 (Stereo Dual Flange <faster>)</faster>	: Stereo flanger which applies two (normal and reverse) flanging effects while maintaining the stereo image. Fast rate.
FLANGE 5 (Single Flange)	: Single flanger. Slow rate.
FLANGE 6 (Single Flange <faster>)</faster>	: Single flanger. Fast rate.
FLANGE 7 (Dual Flange)	: Special dual flanger in which two types of flanging effects fly around complicatedly. Slow rate.
FLANGE 8 (Dual Flange <faster>)</faster>	: Special dual flanger in which two types of flanging effects fly around complicatedly. Fast rate.
FLANGE 9 (Mono Dual Flange)	: Special mono dual flanger in which two types of flanging effects fly around complicatedly. Fast rate.
FLANGE 10 (Hi-Freq Flange)	: Special flanger which applies a flanging effect only to the high frequency range.
FLANGE 11 (Lo-Freq Flange)	: Flanger with double depth.
FLANGE-1, 2, 3, 4, 5, 6> * [EFFECT 1_ADJUST] knob (PARAM) * [EFFECT 2_ADJUST] knob (PARAM) * [EFFECT 2_MIX] knob (PARAM.3):	1.2): Not used.
<pre><flange-7, 10,="" 11="" 8,="" 9,=""> * [EFFECT 1_ADJUST] knob (PARAM * [EFFECT 2_ADJUST] knob (PARAM * [EFFECT 2_MIX] knob (PARAM.3):</flange-7,></pre>	A.1): Adjust the Flange Rate 1. A.2): Adjust the Flange Rate 2.

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Effects in SINGLE 2 MODE

• L. HALL (Large Hall)

 L. HALL (Large Hall) 			
L. HALL-1 (Special Large Hall 1)	: Hall reverb simulating a large hall with reflection sound.	n ideal acoustic characteristics w	nich applies soft early
L. HALL-2 (Special Large Hall 2)	: Hall reverb simulating a large hall whi	ch applies different early reflectio	n sound from L. HALL-1
L. HALL-3 (Large Stage Reverb)	: Hall reverb sounding on the stage in a		
L. HALL-4 (Large Stadium)	: Large stadium reverb.		
L. HALL-5 (Large Theater)	: Large theater reverb.		
L. HALL-6 (Warm Large Hall)	: Large hall reverb with thickness by ap	polving chorus effect	
L. HALL-7 (Chorus Large Hall)	: Clean large hall reverb with chorus ef		
L. HALL-8 (Sizzle Large Hall)	: Large hall reverb with sizzle sound.		
L. HALL-9 (Flanging Large Hall)	: Clean large hall reverb with sizzle sound:	aina effect	
L. HALL-10 (Large Cave)	: Like a sound of wind blowing in a larg		
L. HALL-11 (Large Tunnel)	: Reverb in a large tunnel with flanging		
* IFFFECT 1 AD IUSTI knob (PA)	RAM.1): Adjust the Reverb Time.		OUTPUT 1 (L)
* [EFFECT 2_ADJUST] knob (PAI * [EFFECT 2_MIX] knob (PARAM	RAM.2): Adjust the E/R Level.	INPUT 2	OUTPUT 1 (R)
S. HALL (Small Hall)			
S. HALL-1 (Special Small Hall 1)	: Hall reverb simulating a small hall wit reflection sound.	h ideal acoustic characteristics w	hich applies soft early
S. HALL-2 (Special Small Hall 2)	: Hall reverb simulating a small hall whi	ch applies different early reflectio	n sound from L HALL-1
S. HALL-3 (Small Stage Reverb)	: Hall reverb sounding on the stage in a		
S. HALL-4 (Small Stadium)	: Small stadium reverb.		
S. HALL-5 (Small Theater)	: Small theater reverb.		
	: Small hall reverb with thickness by ap	phying charus offect	
S. HALL-6 (Warm Small Hall) S. HALL-7 (Chorus Small Hall)	: Clean small hall reverb with thickness by ap		
· · · · · · · · · · · · · · · · · · ·		liect.	
S. HALL-8 (Sizzle Small Hall)	: Small hall reverb with sizzle sound.	aina offect	
S. HALL-9 (Flanging Small Hall)	: Clean small hall reverb with deep flan		
S. HALL-10 (Small Cave) S. HALL-11 (Small Tunnel)	 Like a sound of wind blowing in a sma Reverb in a small tunnel with flanging 		
* [EFFECT 2_ADJUST] knob (PA * [EFFECT 2_MIX] knob (PARAM • ROOM		INPUT 2	OUTPUT 1 (L)
ROOM-1 (Long E/R Room)	: Room reverb with long early reflectior		
ROOM-2 (Short E/R Room)	: Room reverb with short early reflection		
			n is small
ROOM-3 (Room E/R) ROOM-4 (Announce Booth)	 Room reverb with common early refle Room reverb with short early reflectio 		
ROOM-5 (Pf Booth)	: Reverb for adding the brightness to a		sound.
			orup offect
ROOM-6 (Warm Room)	: Room reverb which emphasizes the t	nickness of sound by applying cr	iorus erieci.
ROOM-7 (Chorus Room)	: Room reverb with thin chorus effect.		
ROOM-8 (Sizzle Room)	: Room reverb with the characteristic h	0 1 7 0	
ROOM-9 (Flanging Room)	: Room reverb with flanging effect.		
ROOM-10 (Lo-F Flanging Room) ROOM-11 (Hi-F Flanging Room)	Room reverb with flanging effect applRoom reverb with flanging effect appl		
* IEFFECT 1 ADJUSTI knob (PA	RAM.1): Adjust the Reverb Time.		
* [EFFECT 2_ADJUST] knob (PA)		INPUT 1	OUTPUT 1 (L)
* [EFFECT 2_MIX] knob (PARAM			OUTPUT 1 (R)
PLATE			
PLATE-1 (High-Density Plate)	: High density plate reverb.		
PLATE-2 (High-Density Old Plate)	: High density plate reverb with deep a		
PLATE-3 (High-Density Vivid Plate)	: High density plate reverb with the vivi		
PLATE-4 (Phase Shift Plate)	: Plate reverb with phase-shifted sound		
PLATE-5 (No E/R Plate)	: Neutral plate reverb sound, with no ea		
PLATE-6 (Warm Plate)	: Rich plate reverb sound with chorus e	effect.	
PLATE-7 (Chorus Plate)	: Plate reverb with thin chorus effect.		
PLATE-8 (Sizzle Plate)	: Plate reverb with the characteristic high	gh frequency range.	
PLATE-9 (Flange Plate)	: Plate reverb with flanging effect.		
PLATE 10 (Lo E Elando Plato)		ad only to the low frequency rang	

- PLATE-10 (Lo-F Flange Plate) : Plate reverb with flanging effect applied only to the low frequency range. PLATE-11 (Hi-F Flange Plate)
 - : Plate reverb with flanging effect applied only to the high frequency range.
 - * **[EFFECT 1_ADJUST]** knob (PARAM.1): Adjust the Reverb Time. INPUT 1 OUTPUT 1 (L) * **[EFFECT 2_ADJUST]** knob (PARAM.2): Adjust the E/R Level. PLATE * **[EFFECT 2_MIX]** knob (PARAM.3): Adjust the Character. OUTPUT 1 (R) **INPUT 2**

12

MIC SIM (Microphone Simulation)

MIC SIM-1 (Trad Condenser 3k, Low Cut: Off) :	Simulates the sound of a multipurpose professional condenser microphone with a large diaphragm. Its warm and transparent sound is suitable for a vocal, as well as a drum overhead or guitar amplifier.
MIC SIM-2 (Trad Condenser 3k, Low Cut: On) :	Simulates the sound of "MIC SIM-1" above with the Low Cut switch to On. You can suppress boosted low frequencies as a result from placing a microphone in close proximity to the signal source.
MIC SIM-3 (Trad Condenser 414, Low Cut: Off) :	Simulates the sound of one of the most popular condenser microphones in professional studios together with the Classic condenser 87. You can get a high-fidelity clean sound of an acoustic piano.
MIC SIM-4 (Trad Condenser 414, Low Cut: 150Hz) :	Simulates the sound of "MIC SIM-3" above with the Low Cut switch to On. You can suppress boosted low frequencies.
MIC SIM-5 (Trad Dynamic 112) :	Simulates the sound of a dynamic microphone suitable for a kick. You can get a clean and powerful sound by applying it to a kick or bass. It has a slightly boosted low frequencies.
MIC SIM-6 (German Dynamic 421) :	Simulates the sound of a dynamic microphone which is frequently used for recording a tom-tom. Suitable for recording a skin percussion because of its powerful attack feeling with a high frequency peak.
MIC SIM-7 (German Dynamic 421, Low Cut: 2) :	Simulates the sound of "MIC SIM-6" above with the Low Cut switch to On. You can suppress boosted low frequencies more than "MIC SIM-6".
MIC SIM-8 (German Dynamic 421, Low Cut: SPE) :	Simulates the sound of "MIC SIM-6" above with the Low Cut switch to On (SPE). You can considerably suppress boosted low frequencies. Suitable for a speech.
MIC SIM-9 (Modern Condenser 2) :	Simulates the sound of a modern condenser microphone which has a wider dynamic range and bright sound. It offers a warm tube sound, making a vocal or acoustic guitar as if it were recorded by a condenser microphone.
MIC SIM-10 (Vintage Condenser 47) :	Simulates a professional tube microphone with a large diaphragm that offers clean and dry sound. Suitable for an acoustic guitar and brass.
MIC SIM-11 (Vintage Condenser 87, Low Cut: Off) :	
* [EFFECT 1_ADJUST] knob (PARAM.1): No	t used.

* **[EFFECT 2 ADJUST]** knob (PARAM.2): Adjust the Distortion Output Level.

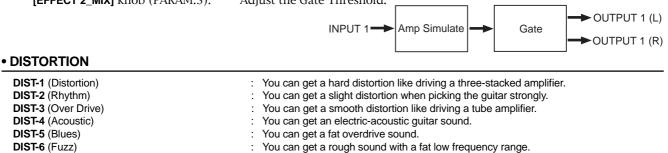
* [EFFECT 2_MIX] knob (PARAM.3): Adjust the Gate Threshold.

OUTPUT 1 (L) INPUT 1 Mic Simulate Gate OUTPUT 1 (R) AMP SIM (Amplifier Simulation) AMP SIM-1 (British 800 Amplifier) : Simulates the 800-series British tube amplifier, a synonym for "rock." The king of the rock sound of the 80's hard rock and heavy metal. Distorted raging sound. AMP SIM-2 (Tremo Recti Amplifier) Simulates the American combo model amplifier, designed to get high gain sound for the 90's hard rock and heavy metal. Fat bass and raging distorted sound. AMP SIM-3 (Metal Panel Recti Amplifier) Simulates the amp head of the high gain amp series, same as the Tremo Recti Amplifiers. Deep and well-separated distortion and heavy sound. Suitable for the metal sound. AMP SIM-4 (British Class A30 Amplifier) Simulates a most popular British sound tube amplifier. The preamp section is designed using the class A circuit for creating the fat and warm sound. Usually used in the range between clear and crunch sound, but sometimes used with the higher gain to get a harder distortion.

- AMP SIM-5 (Fat Bass Amplifier) Simulates the American combo amplifier designed as a bass amplifier but used by many guitarists because of its fat presence sound. Suitable for jazz and blues with its clear and crunch sound, however, because you can get a raging distortion that you cannot expect from an ordinary bass amplifier when raising the gain. It can be used for a wide range of genres. AMP SIM-6 (Kick) You can distort a kick sound appropriately.
- AMP SIM-7 (Snare 1) You can distort a snare sound appropriately. AMP SIM-8 (Snare 2) You can distort a snare sound excessively. AMP SIM-9 (Voice 1) You can get a smooth distortion. AMP SIM-10 (Voice 2) You can get a boomy and bright distortion.
 - - You can get a bullhorn sound.
 - * [EFFECT 1_ADJUST] knob (PARAM.1): Adjust the Distortion Gain.
 - * [EFFECT 2_ADJUST] knob (PARAM.2): Adjust the Distortion Output Level.
 - * [EFFECT 2_MIX] knob (PARAM.3): Adjust the Gate Threshold.

AMP SIM-11 (Radio Voice)

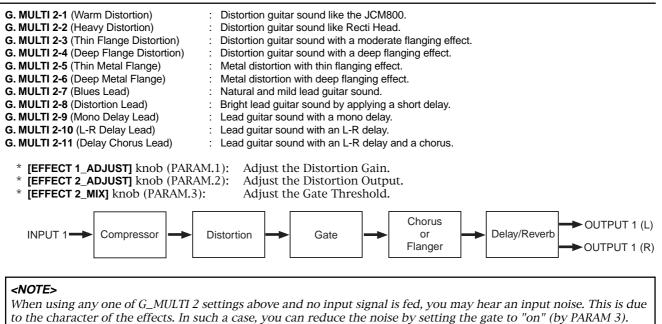
DIST-7 (Lead)



You can get a bright and smooth distortion.

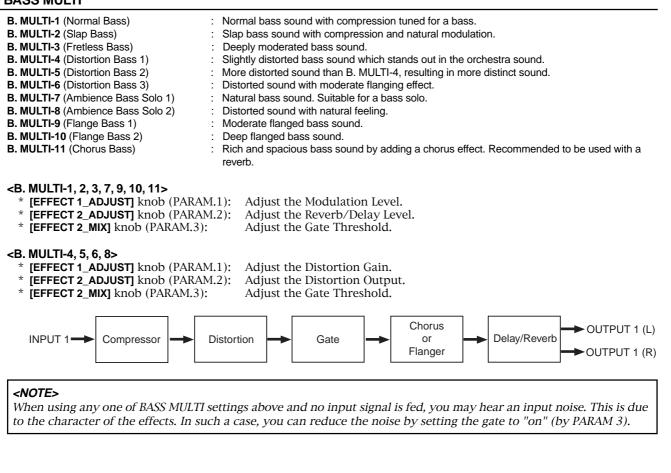
FOSTEX DE-10 Owner's Manual

JSLEX DE-10 Owner's Man	lual
DIST-8 (Metal) DIST-9 (Bass 1) DIST-10 (Bass 2) DIST-11 (Bass 3)	 You can get a shred sound. Simulates a bass amplifier. You can get a sound like recording a distorted bass sound through a line. You can get a fat bass sound.
 * [EFFECT 1_ADJUST] knob (P * [EFFECT 2_ADJUST] knob (P * [EFFECT 2_MIX] knob (PARA 	ARAM.2): Adjust the Distortion Output Level.
	INPUT 1 → Distortion → Gate → OUTPUT 1 (L) → OUTPUT 1 (R)
• GUITAR MULTI 1	
G. MULTI 1-2 (Vivid Chorus Guitar) G. MULTI 1-3 (Warm Chorus Guitar) G. MULTI 1-4 (Rhythm Guitar) G. MULTI 1-5 (Warm Rhythm Guitar) G. MULTI 1-6 (Flange Rhythm Guitar) G. MULTI 1-7 (Acoustic Guitar) G. MULTI 1-7 (Acoustic Guitar) G. MULTI 1-8 (Crunch Guitar) G. MULTI 1-9 (Vivid Crunch) G. MULTI 1-10 (Delay Crunch Solo) G. MULTI 1-11 (Flange Crunch Solo)	 Clean guitar sound featuring natural compression and moderate reverberation. Contemporary guitar sound featuring a vivid and clear tone. Warm and clean guitar sound with a deep chorus effect. Designed for a rhythm guitar, with compression and drive circuits. Designed for a rhythm guitar with warm sound, by adding a chorus effect. Designed for a rhythm guitar with a flanging effect. Simulates an acoustic guitar sound, with applying compression and reverberation. Crunch guitar sound. Crunch guitar sound with a moderate chorus effect. Crunch guitar sound with a moderate chorus effect. Crunch guitar sound with L-R delay. Suitable for a mellow song. Crunch guitar sound with a light and coarse flanging effect, featuring a brilliant high frequency range.
<g. 2,="" 3="" multi-1,=""> * [EFFECT 1_ADJUST] knob (P. * [EFFECT 2_ADJUST] knob (P. * [EFFECT 2_MIX] knob (PARA)</g.>	ARAM.2): Adjust the Reverb/Delay Level. M.3): Adjust the Gate Threshold.
<g. 10,="" 11="" 5,="" 6,="" 7,="" 8,="" 9,="" multi-4,=""> * [EFFECT 1_ADJUST] knob (P. * [EFFECT 2_ADJUST] knob (P. * [EFFECT 2_MIX] knob (PARA)</g.>	ARAM.1): Adjust the Distortion Gain. ARAM.2): Adjust the Distortion Output.
INPUT 1 Compressor	► Distortion ← Gate ← Chorus or Flanger ← Delay/Reverb ← OUTPUT 1 (L) → OUTPUT 1 (R)
	TI 1 settings above and no input signal is fed, you may hear an input noise. This is due In such a case, you can reduce the noise by setting the gate to "on" (by PARAM 3).
G. MULTI 2-1 (Warm Distortion) G. MULTI 2-2 (Heavy Distortion) G. MULTI 2-3 (Thin Flange Distortion) G. MULTI 2-4 (Deep Flange Distortior G. MULTI 2-5 (Thin Metal Flange) G. MULTI 2-6 (Deep Metal Flange)	

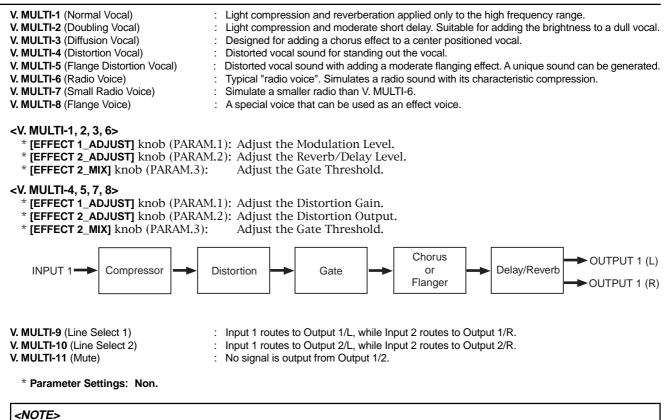


14

BASS MULTI

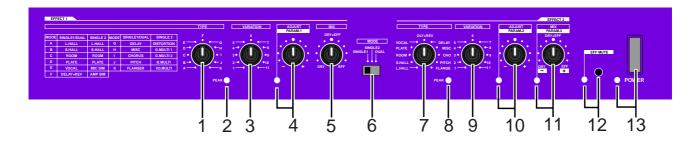


VOCAL MULTI



When using any one of VOCAL MULTI settings above and no input signal is fed, you may hear an input noise. This is due to the character of the effects. In such a case, you can reduce the noise by setting the gate to "on" (by PARAM 3).

Names and Functions (Front panel section)



1. EFFECT 1 TYPE switch

Selects the type for EFFECT 1 in the dual mode or for the effect in the single (1 or 2) mode.

You can select from among 11 effect types for each mode as shown in the table below.

SW	SINGLE 1/DUAL	SINGLE 2	SW	SINGLE 1/DUAL	SINGLE 2
А	L. HALL	L. HALL	G	DELAY	DISTORTION
В	S. HALL	S. HALL	н	MISC	G. MULTI 1
С	ROOM	ROOM	I	CHORUS	G. MULTI 2
D	PLATE	PLATE	J	PITCH	B. MULTI
E	VOCAL	MIC SIM	К	FLANGER	VO. MULTI
F	DELAY + REV	AMP SIM			

2. EFFECT 1 PEAK indicator

Lights up when the input level of EFFECT 1 in the dual mode or of the effect in the single (1 or 2) mode exceeds "+6 dB" which is just below the clipping level.

3. EFFECT 1 VARIATION switch

Selects the variation for EFFECT 1 in the dual mode or for the effect in the single (1 or 2) mode. You can select from among 11 variations.

4. EFFECT 1 ADJUST/PARAM. 1 control and indicator

Adjusts the parameter value for EFFECT 1 in the dual mode or the parameter 1 value for the effect in the single (1 or 2) mode. The center position is the default. Turning left decreases the value while turning right increases the value.

5. EFFECT 1 MIX control

Adjusts the balance of the output sound from the OUTPUT 1 jacks on the rear panel in the dual or single mode.

- Hard left :DRY 100%, EFFECT 0%
- Center :DRY 50%, EFFECT 0%
- Hard right :DRY 0%, EFFECT 100%

6. MODE select switch

Selects the mode between DUAL, SINGLE 1 and SINGLE 2.

7. EFFECT 2 TYPE switch

Selects the type for EFFECT 2 in the dual mode. This switch does not function in the single (1 or 2) mode. You can select from among 11 effect types, as same as EFFECT 1.

8. EFFECT 2 PEAK indicator

Lights up when the input level of EFFECT 2 in the dual mode exceeds "+6 dB" which is just below the clipping level. This indicator does not function in the single (1 or 2) mode. We recommend to adjust the INPUT LEVEL control on the rear panel appropriately so that this indicator sometimes lights up.

9. EFFECT 2 VARIATION switch

Selects the variation for the effect type selected for EFFECT 2 in the dual mode.

This switch does not function in the single (1 or 2) mode. You can select from among 11 variations, as same as EFFECT 1.

10. EFFECT 2 ADJUST/PARAM. 2 control and indicator

Adjusts the parameter value for EFFECT 2 in the dual mode or the parameter 2 value for the effect in the single (1 or 2) mode.

The center position is the default. Turning left decreases the value while turning right increases the value.

11. EFFECT 2 MIX/PARAM. 3 control and indicator

Adjusts the balance of the output sound from the OUTPUT 2 jacks on the rear panel in the dual mode.

- Hard left :DRY 100%, EFFECT 0%
- Center :DRY 50%, EFFECT 0%
- Hard right :DRY 0%, EFFECT 200%

In the single mode, this control adjusts the parameter 3 value for the selected effect type. The center position is the default. Turning left decreases the value while turning right increases the value.

12. EFFECT MUTE switch and indicator

Each press of the switch alternates on and off of EFFECT MUTE. The indicator lights up when the mute is on, while it turns off when the mute is off.

Note that the dry sound is not muted regardless of the switch setting.

<NOTE>

When connecting an external foot switch and stepping it down, pressing this switch does not alternate on and off of EFFECT MUTE.

13. POWER switch and indicator

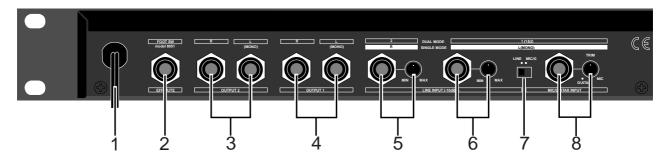
Turns the power on or off. The indicator lights up when the power is on.

<Hints: About the ADJUST indicators for parameters>

Each ADJUST indicator lights when moving the appropriate control after changing the effect type or variation. This shows that the current position of the control matches the parameter value.

On the contrary, if you change the effect type or variation while the indicator is lit, it turns off. This the parameter is set to the default value.

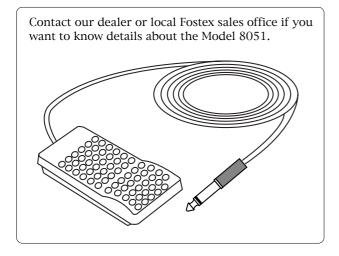
Names and Functions (Rear panel section)



1. Power cord

2. FOOT SW jack

By connecting the optional Model 8051 foot switch to this jack, you can alternate on or off of the EFFECT MUTE function via the foot switch.



3. OUTPUT 2 jacks (L (MONO), R)

In the dual mode, these jacks feed the EFFECT 2 sound in stereo (L and R). In the single mode (1 or 2), they do not feed any signal. When only the "L (MONO)" jack is plugged, it feeds the summed signal of L and R.

4. OUTPUT 1 jacks (L (MONO), R)

In the dual mode, these jacks feed the EFFECT 1 sound in stereo (L and R). In the single mode, they feed the selected effect sound in stereo (L and R). When only the "L (MONO)" jack is plugged, it feeds the summed signal of L and R.

5. LINE INPUT 2 jack/Input level control

This jack is used to connect to a line level (-10 dBV) source. In the dual mode, the source signal is routed to EFFECT 2. You can adjust the input level by the control beside the jack while monitoring the appropriate peak indicator.

In the single mode, the source signal is routed to the R channel of the effect.

You can adjust the input level by the input level control beside the jack while monitoring the appropriate peak indicator.

6. LINE INPUT 1 jack and Input level control

This jack connects to a line level (-10 dBV) source. It is active when the input select switch is set to "LINE".

In the dual mode, the source signal is routed to EFFECT 1. When the INPUT 2 (R) jack is not plugged, the same signal is fed to both EFFECT 1 and EFFECT 2. You can adjust the input level by the control beside the jack while monitoring the appropriate peak indicator.

In the single mode, the source signal is routed to the L channel of the effect. When the INPUT 2 (R) jack is not plugged, the same signal is fed to both the L and R channels of the effect.

You can adjust the input level by the input level control beside the jack while monitoring the appropriate peak indicator.

<NOTE>

When the input select switch is set to "MIC/G", this jack is not active.

7. Input select switch

Selects the input jack to be active for INPUT 1.

LINE	The LINE INPUT jack is active. You can connect a line level source.
MIC/G	The MIC/GUITAR INPUT jack is active. You can connect a microphone or guitar directly.

8. MIC/GUITAR INPUT jack and TRIM control

This jack is used to connect to a microphone or guitar. It is active when the input select switch is set to "MIC/G".

In the dual mode, the source signal is routed to EFFECT 1. When the INPUT 2 (R) jack is not plugged, the same signal is fed to both EFFECT 1 and EFFECT 2. You can adjust the input level by the control beside the jack while monitoring the appropriate peak indicator.

In the single mode, the source signal is routed to the L channel of the effect. When the INPUT 2 (R) jack is not plugged, the same signal is fed to both the L and R channels of the effect.

You can adjust the input level by the TRIM control beside the jack while monitoring the appropriate peak indicator.

<NOTE>

When the input select switch is set to "LINE", this jack is not active.

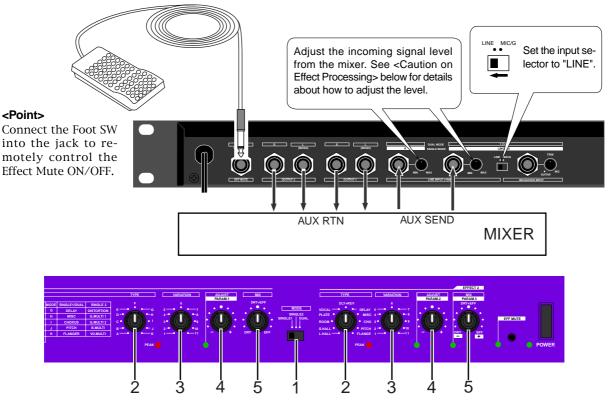
How to use the Dual Mode

We describe how to use the Dual Mode below.

<About features of the Dual Mode>

- 1. You can use the DE-10 as a two-channel effect processing unit.
- 2. Each effect processor (EFFECT 1 and EFFECT 2) provides a mono input and stereo output jacks.
- 3. A main parameter for each effect can be edited from the preset value.

The following shows the example of using the dual mode, in which the DE-10 is connected between the AUX SEND and AUX RTN jacks for applying the desired effect to a sound.



<Front panel settings>

1. Set the MODE switch to "DUAL".

2. Set the TYPE switch for each of EFFECT 1 and 2 to the desired position.

You can select from among the following eleven types. See page 5~7 for details about each type.

MODE SW	SINGLE 1/DUAL	SINGLE 2	SW	SINGLE 1/DUAL	SINGLE 2
А	L. HALL	L. HALL	G	DELAY	DISTORTION
В	S. HALL	S. HALL	Н	MISC	G. MULTI 1
С	ROOM	ROOM	I	CHORUS	G. MULTI 2
D	PLATE	PLATE	J	PITCH	B. MULTI
E	VOCAL	MIC SIM	К	FLANGER	VO. MULTI
F		AMP SIM			

- 3. Set the VARIATION switch for each of EFFECT 1 and 2 to the desired position.
- 4. Using the appropriate ADJUST control, adjust the parameter for each of EFFECT 1 and 2.
- 5. Using the appropriate MIX control, adjust the mixing balance of dry and effect signals fed from the OUTPUT jacks for each of EFFECT 1 and 2.

<About PEAK indicator>

The PEAK indicator on the front panel illuminates when the input signal to be monitored reaches 6 dB below the clipping level. Adjust the input level appropriately so that the PEAK indicator occasionally flickers. If you hear the output sound distorted though the PEAK indicator does not steadily light or illuminate so often, it may be due to the signal level increase in the effect processing. In such a case, reduce the input level so that the output sound is not distorted.

<Note on changing the switch position>

When you change the position of the MODE, EFFECT TYPE, or VARIATION switch, the DE-10 resets the internal DSP and the output signal disappears momentarily. This is due to not a malfunction.

<Notes on using the ADJUST and MIX controls>

- When you turn the ADJUST or MIX control, a click may be generated with some effect type.
- If the default of a parameter is the maximum or minimum value, you cannot increase or decrease the value using the ADJUST control, respectively.

How to use the Single (1/2) Mode

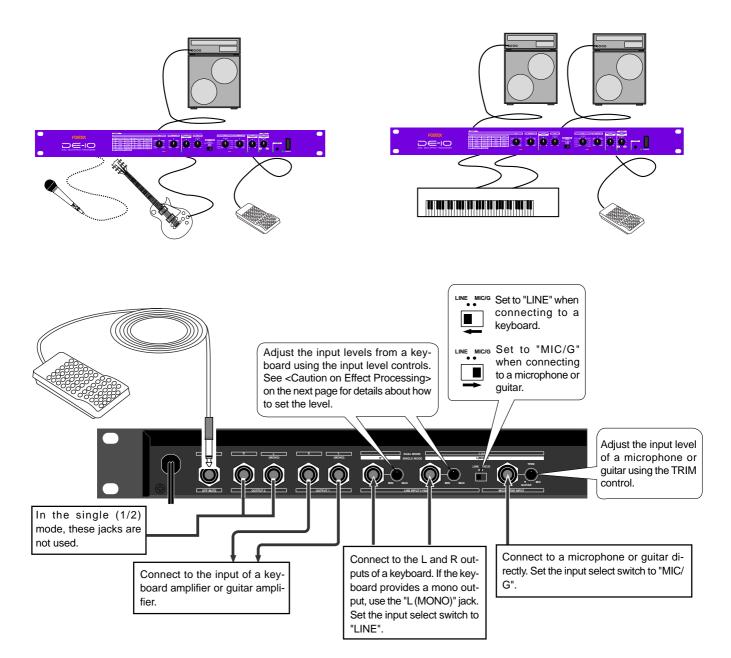
We describe how to use the single (1 or 2) mode below.

<About features of the Single Mode>

- 1. You can use the DE-10 as a high quality single-channel effect processing unit.
- 2. Stereo inputs and outputs are provided.
- 3. Three main parameters for each effect can be edited from the preset values.
- 4. You can apply a higher density reverberation than the dual mode.
- 5. For the delay, flange and pitch effects, the independent channel algorithm is employed, offering completely separated processing for L and R channels.

The following shows the examples of using the single mode for a live performance, in which a guitar, keyboard and microphone are directly connected to the DE-10, while the effect outputs of the DE-10 are connected to a keyboard amplifier or guitar amplifier.

You can also use the Model 8051 optional foot switch for controlling on/off of EFFECT MUTE.



FOSTEX DE-10 Owner's Manual

In the single (1/2) mode, these controls and indicators are not used.

<Front panel settings>

1. Set the MODE switch to "SINGLE 1" or "SINGLE 2".

2. Set the TYPE switch to the desired position.

You can select from among the following eleven types for each single mode. See page $8{\sim}15$ for details about each type.

• When selecting "SINGLE 1".

SW	SINGLE 1/DUAL	SINGLE 2	SW	SINGLE 1/DUAL	SINGLE 2
А	L. HALL	L. HALL	G	DELAY	DISTORTION
В	S. HALL	S. HALL	Н	MISC	G. MULTI 1
С	ROOM	ROOM	I	CHORUS	G. MULTI 2
D	PLATE	PLATE	J	PITCH	B. MULTI
E	VOCAL	MIC SIM	К	FLANGER	VO. MULTI
F	DELAY + REV	AMP SIM			

• When selecting "SINGLE 2".

sw	MODE	SINGLE 1/DUAL	SINGLE 2	SW	SINGLE 1/DUAL	SINGLE 2
A	Ą	L. HALL	L. HALL	G	DELAY	DISTORTION
E	3	S. HALL	S. HALL	Н	MISC	G. MULTI 1
0	2	ROOM	ROOM	- I	CHORUS	G. MULTI 2
)	PLATE	PLATE	J	PITCH	B. MULTI
E		VOCAL	MIC SIM	К	FLANGER	VO. MULTI
F	-	DELAY + REV	AMP SIM			

3. Set the VARIATION switch to the desired position.

4. Using the ADJUST (PARAM 1 through PARAM 3) controls, adjust the effect parameters.

In the single mode, you can control three parameters for each effect, as shown in the table below.

5. Using the MIX control, adjust the mixing balance of dry and effect signals fed from the appropriate OUTPUT jacks.

<About PEAK indicator>

The PEAK indicator on the front panel illuminates when the input signal to be monitored reaches 6 dB below the clipping level. Adjust the input level appropriately so that the PEAK indicator occasionally flickers.

If you hear the output sound distorted though the PEAK indicator does not steadily light or illuminate so often, it may be due to the signal level increase in the effect processing. In such a case, reduce the input level so that the output sound is not distorted.

<Note on changing the switch position>

When you change the position of the MODE, EFFECT TYPE, or VARIATION switch, the DE-10 resets the internal DSP and the output signal disappears momentarily. This is due to not a malfunction.

<Notes on using the ADJUST and MIX controls>

- When you turn the ADJUST or MIX control, a click may be generated with some effect type.
- If the default of a parameter is the maximum or minimum value, you cannot increase or decrease the value using the ADJUST control, respectively.

20kHz ~ 20kHz (TYPICAL)

Specifications

<INPUT x 3> LINE INPUT x 2

- Connector:
- ø 6mm phone jack/unbalanced • Input Impedance: $20k\Omega$ or more
 - Input Level: -10dBV
- ٠ **MIC/GUITAR x 1**
- · Connector:
- ø 6mm phone jack/unbalanced • Input Impedance: $500k\Omega$ or more
- Input Level: -55dBV ~ -15dBV (Controllable)

<OUTPUT x 4>

- Connector: ø 6mm phone jack/unbalanced
- Output Impedance: 10kΩ or more
- ٠ Output Level: -10dBV

<FOOT SW>

· Connector:

ø 6mm phone jack (Optional Model 8051)

92dB (TYPICAL)

sigma

44.1kHz

<OTHERS>

- Frequency Response:
- Dynamic Range:
- AD converter:
- DA converter: •
- 0.01% (TYPICAL) • Total Harmonic Distortion:
- · Sampling Frequency:

<GENERAL>

- Dimensions:
- · Weight:
- · Power Supply:

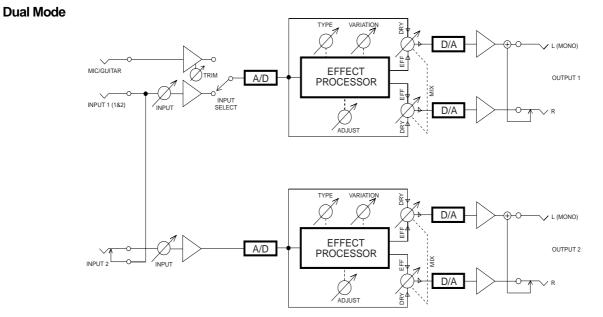
20bit 64 times over sampling delta sigma

24 bit 128 times over sampling delta

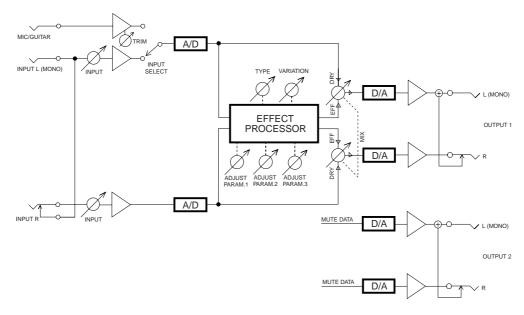
- 482 (W) x 44 (H) x 230 (D) mm Approx. 2.5kg
- 120V AC 60Hz, 230V ~ 50/60Hz
- Power Consumption: 8W

• Specifications and appearance are subjects to change without notice for product improvement.

Block Diagram



Single 1/2 Mode



21

Declaration of EC Directive

This equipment is compatible with the EMC Directive (89/336/EEC) - Directive on approximation of member nation's ordinance concerning the electromagnetic compatibility and with the Low Voltage Directive (73/23/EEC) - Directive on approximation of member nation's ordinance concerning electric equipment designed to be used within the specified voltage range.

The Affect of Immunity on This Equipment

The affect of the European Specification EN61000-6-1 (coexistence of electromagnetic waves - common immunity specification) on this equipment are as shown below.

In the electrical fast transient/burst requirements, surge, conducted disturbances by radio-frequency fields, power frequency magnetic field, radiate electromagnetic field requirements and static electricity discharging environment, this could be affected by generation of noise in some cases.

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