

RFX-300

DIGITAL REVERB & MULTI EFFECTS

OPERATION MANUAL

Introduction

Thank you for selecting the ZOOM RFX-300 (hereafter simply called the "**RFX-300**"). The RFX-300 is a sophisticated multi-effect processor with the following features and functions.

- **Ideal for use with a multi-track recorder**

A total of 22 high-quality preset effects using a sampling frequency of 44.1 kHz and 18-bit A/D and D/A converters are built in. This includes reverb effects such as Hall, Room, Plate, and Ambience, delay/modulation type effects as well as combination effects, mixdown effects for changing the overall mood of a song. Any effect can be called up quickly and without fuss. The unit is designed to be especially useful for recording and mixdown on a multi-track recorder.

- **Easy operation**

The main parameters of preset effects can be adjusted directly with convenient knobs on the top panel. This allows quick fine-tuning for optimum sound.

- **Integrated tap input function**

Tap input lets you set time-based parameters simply by tapping a key in the desired interval. This makes it a snap to match delay time or modulation rate to the tempo of a song.

- **Versatile input/output configuration**

The inputs and outputs of the RFX-300 accommodate both standard phone plugs and RCA type phono plugs. Electronic instruments, multi-track recorders, various audio components and a wide range of other equipment can be connected without hassle. The phone jack input is equipped with a gain switch, allowing connection of microphones as well. You can use the RFX-300 as a portable vocal effect device or as a microphone preamp for recording.

- **Dual power supply design**

The dual power supply principle allows the unit to be powered from an AC adapter or six IEC R6 (size AA) batteries. This is convenient for example when using the unit on stage.

Please take the time to read this manual carefully so as to get the most out of your RFX-300 and to ensure optimum performance and reliability. Retain this manual, the warranty card and all other documentation for future reference.

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Safety Precautions/Usage Precautions

Safety Precautions

In this manual, symbols are used to highlight warnings and cautions for you to read so that accidents can be prevented. The meanings of these symbols are as follows:



This symbol indicates explanations about extremely dangerous matters. If users ignore this symbol and handle the device the wrong way, serious injury or death could result.



This symbol indicates explanations about dangerous matters. If users ignore this symbol and handle the device the wrong way, bodily injury and damage to the equipment could result.

Please observe the following safety tips and precautions to ensure hazard-free use of the RFX-300.



• Power requirements

Since power consumption of this unit is fairly high, we recommend the use of an AC adapter whenever possible. When powering the unit from a battery, use only an alkaline type.

[AC adapter operation]

- Be sure to use only an AC adapter which supplies 9 V DC, 300 mA and is equipped with a "center minus" plug (Zoom AD-0006). The use of an adapter other than the specified type may damage the unit and pose a safety hazard.
- Connect the AC adapter only to an AC outlet that supplies the rated voltage required by the adapter.
- When disconnecting the AC adapter from the AC outlet, always grasp the adapter itself and do not pull at the cable.
- When not using the unit for an extended period, disconnect the AC adapter from the AC outlet.

[Battery Powered Operation]

- Use six IEC R6 (size AA) 1.5V batteries (alkaline).
- The RFX-300 cannot be used for recharging. Pay close attention to the labelling of the battery to make sure you choose the correct type.
- When not using the unit for an extended period, remove the batteries from the unit.
- If battery leakage has occurred, wipe the battery compartment and the battery terminals carefully to remove all remnants of battery fluid.
- While using the unit, the battery compartment cover should be closed.



• Environment

Avoid using your RFX-300 in environments where it will be exposed to:

- Extreme temperature
- High humidity or moisture
- Excessive dust or sand
- Excessive vibration or shock



• Handling

Since the RFX-300 is a precision electronic device, avoid applying excessive force to the switches and buttons. Also take care not to drop the unit, and do not subject it to shock or excessive pressure.



• Alterations

Never open the case of the RFX-300 or attempt to modify the product in any way since this can result in damage to the unit.



• Connecting cables and input and output jacks

You should always turn off the power to the RFX-300 and all other equipment before connecting or disconnecting any cables. Also make sure to disconnect all cables and the AC adapter before moving the RFX-300.

Usage Precautions

• Electrical interference

For safety considerations, the RFX-300 has been designed to provide maximum protection against the emission of electromagnetic radiation from inside the device, and protection from external interference. However, equipment that is very susceptible to interference or that emits powerful electromagnetic waves should not be placed near the RFX-300, as the possibility of interference cannot be ruled out entirely.

With any type of digital control device, the RFX-300 included, electromagnetic interference can cause malfunctioning and can corrupt or destroy data. Care should be taken to minimize the risk of damage.

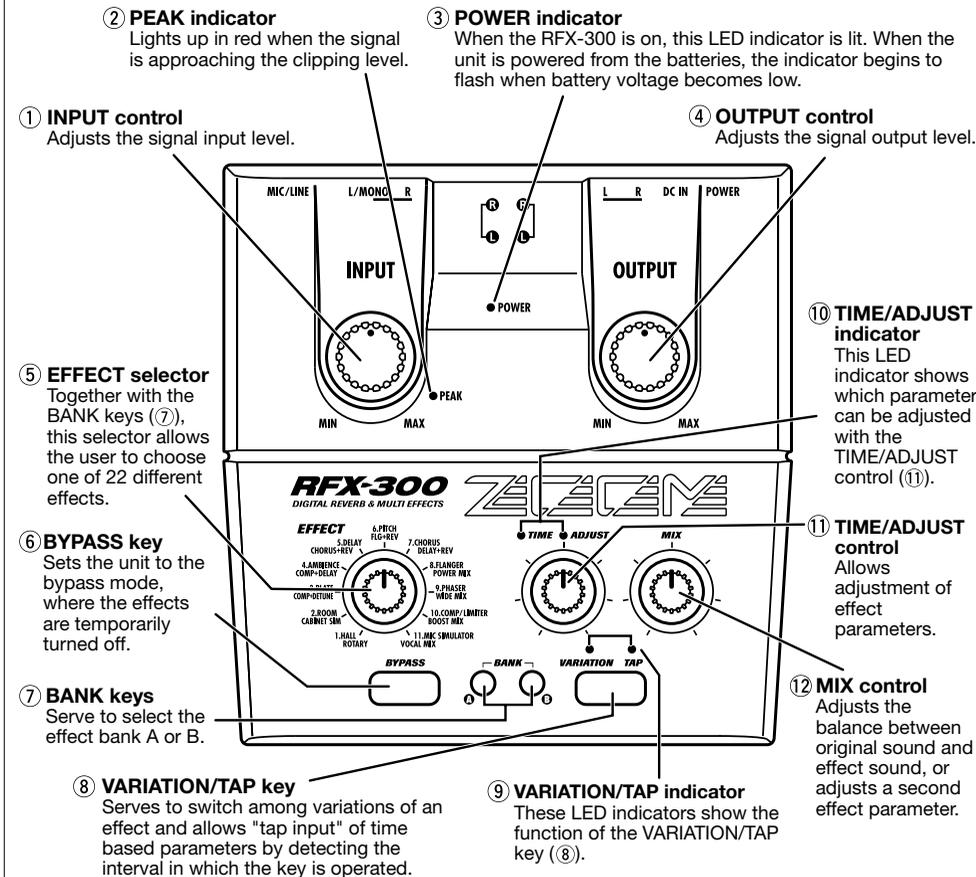
• Cleaning

Use a soft, dry cloth to clean the RFX-300. If necessary, slightly moisten the cloth. Do not use abrasive cleanser, wax, or solvents (such as paint thinner or cleaning alcohol), since these may dull the finish or damage the surface.

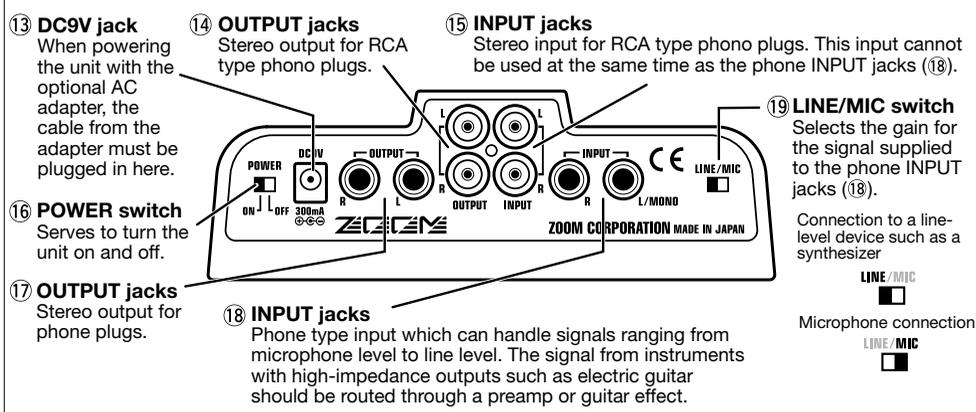
Please keep this manual in a convenient place for future reference.

Controls and Features

Top Panel

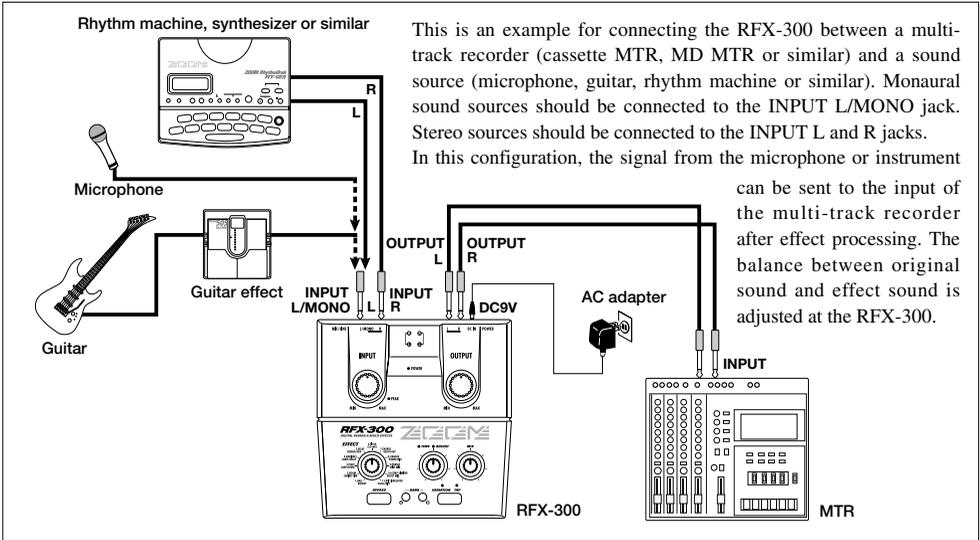


Rear Panel

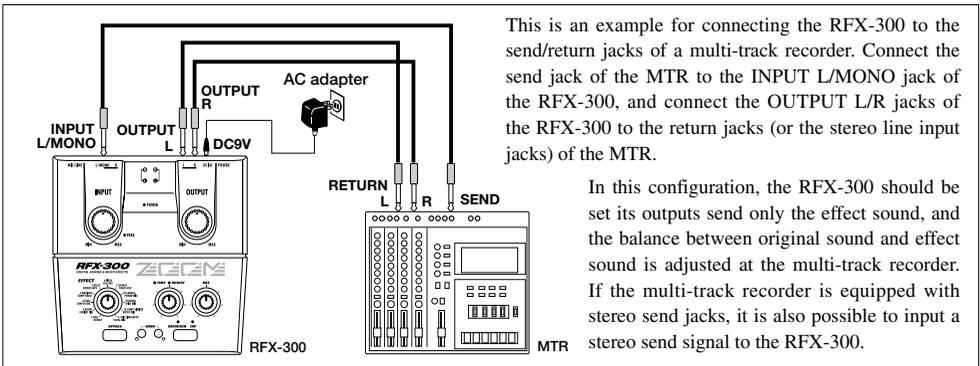


Getting Connected

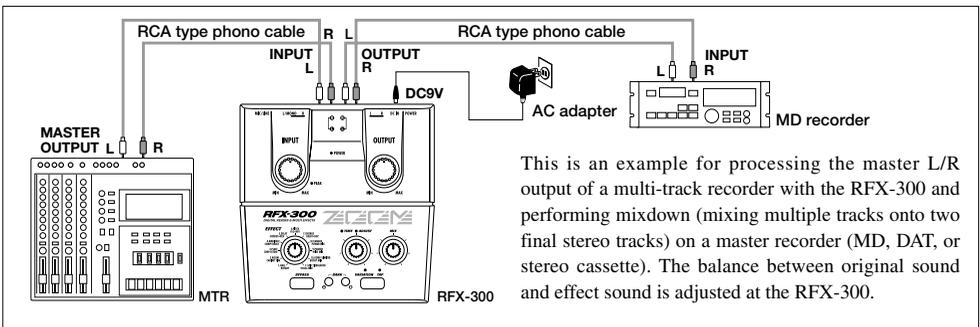
Recording (1) (Insert)



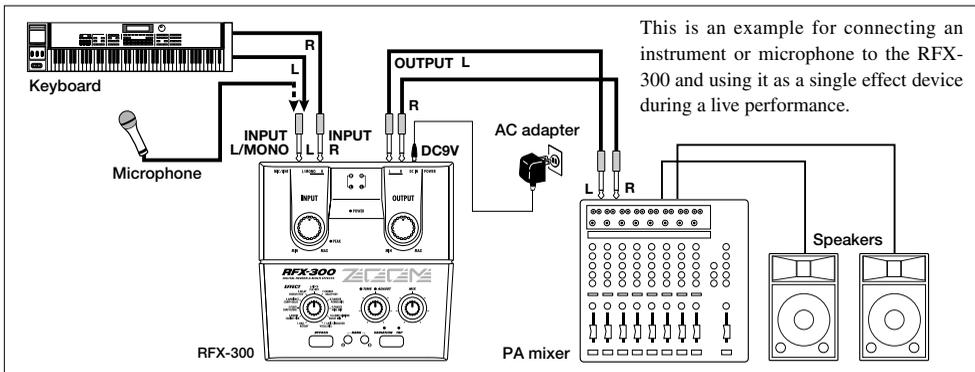
Recording (2) (Send/Return)



Mixdown

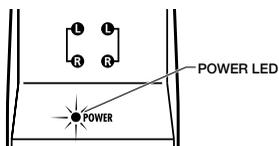


Live Performance

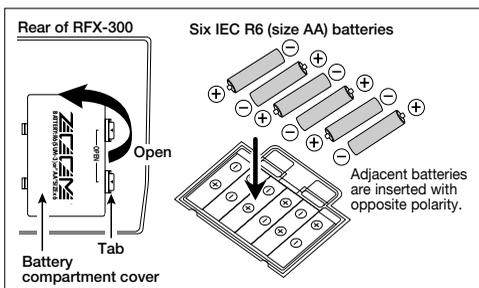


To Operate the Unit on Batteries

Besides using an AC adapter, the RFX-300 can also be powered from six IEC R6 (size AA) alkaline batteries. When the unit is running on battery power, the POWER indicator on the top panel begins to flash when the batteries are nearing depletion.



In such a case, replace the batteries as soon as possible.



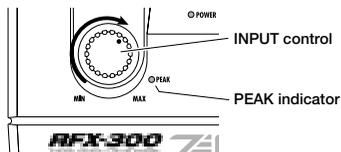
Turning the Unit On

1. Verify that the AC adapter, sound source, and playback equipment are correctly connected to the RFX-300.
2. Turn on the system in the following order: sound source → RFX-300 → playback equipment.

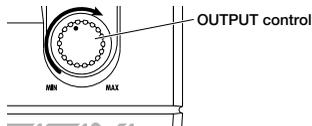
The INPUT control and OUTPUT control of the RFX-300 and the volume control of the playback equipment should be set to minimum before turning the system on.

3. Turn up the INPUT control to adjust the input level.

When the sound source output is at maximum, the PEAK indicator should flash occasionally.

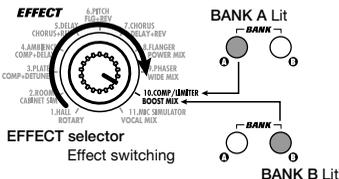


4. Adjust the OUTPUT control and the volume control of the playback equipment to obtain a suitable playback volume.



5. Use the BANK keys and the EFFECT selector to choose the desired effect.

When the BANK key A is lit, the effects printed in the upper line are selected. When the BANK key B is lit, the effects printed in the lower line are selected.



Adjusting the Sound of an Effect

To Make the Adjustment

The sound of effects provided by the RFX-300 can be modified by using the following controls.

① TIME/ADJUST control

Adjusts the main effect parameter. Which parameter this is depends on the currently selected effect.

When **TIME** indicator is lit

TIME ADJUST
Lit

The control can be used to adjust a time-based parameter such as delay time, reverb time, etc.

When **ADJUST** indicator is lit

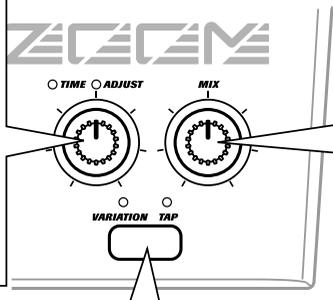
TIME ADJUST
Lit

The control can be used to adjust another parameter.

② MIX control

Adjusts the mixing ratio of original sound and effect sound, and also serves to adjust other parameters. Which parameter this is depends on the currently selected effect.

For information on effects and adjustable parameters, please refer to page 7.



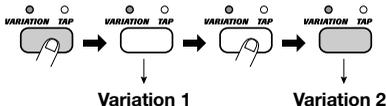
③ VARIATION/TAP key

This key is used to select effect variations and it also serves for the "tap input" function by which the unit detects the key-press interval. The key operation depends on the currently selected effect.

When **VARIATION** indicator is lit

Lit
VARIATION TAP

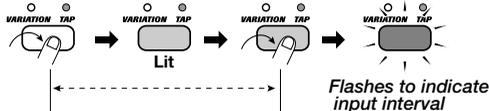
Each push of the key toggles between variation 1 (VARIATION/TAP key is out) and variation 2 (VARIATION/TAP key is lit).



When **TAP** indicator is lit

Lit
VARIATION TAP

Time-based parameters such as delay time or flanger modulation cycle can be easily input by tapping the key in the desired interval (tap input).



(1) After TAP key is pressed for the first time...

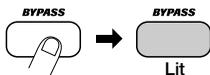
(2) Time until TAP key is pressed for the second time is measured, and the parameter is set accordingly.

If the key-press interval is larger than the maximum possible setting for the current parameter, the parameter is set to the maximum value of the tap input range.

Using the Bypass Function

The effects of the RFX-300 can be temporarily turned off. This is called the bypass mode.

1. To set the RFX-300 to the bypass mode, press the BYPASS key.



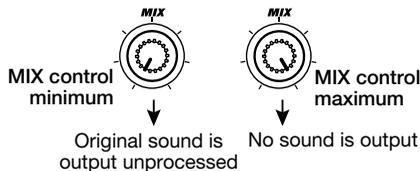
The RFX-300 has two different bypass states, depending on the currently selected effect. (For information on which effects use which bypass type, please refer to pages 7 - 11.)

• WET MUTE

In this condition, only the effect sound is muted. The effects (A1 - A9) using the connection as described in "Recording (2) (Send/Return)" on page 4 operate in this way. The original sound output

level depends on the MIX control position.

In bypass mode...



• DRY THRU

The original sound is output without any processing. The setting of the MIX control has no effect.

2. To return the RFX-300 to the normal state, press the BYPASS key once more.

Effects and Parameters

This section explains all effects and adjustable parameters.

Table of Effects

The following table shows the effect parameters that are adjustable with the VARIATION/TAP key, TIME/ADJUST key, MIX control, and BYPASS control for each effect.

	EFFECT	PARAMETER				BYPASS
		TAP	VARIATION/TAP VARIATION	TIME/ADJUST	MIX	
A1	HALL		Warm / Clear	Reverb Time	Dry-Wet Balance	Wet Mute
A2	ROOM		Warm / Clear	Reverb Time	Dry-Wet Balance	Wet Mute
A3	PLATE		Warm / Clear	Reverb Time	Dry-Wet Balance	Wet Mute
A4	AMBIENCE		Warm / Clear	Reverb Time	Dry-Wet Balance	Wet Mute
A5	DELAY	Delay Time		Delay Time	Dry-Wet Balance	Wet Mute
A6	PITCH		Up / Down	Shift	Dry-Wet Balance	Wet Mute
A7	CHORUS		Warm / Clear	Depth & Rate	Dry-Wet Balance	Wet Mute
A8	FLANGER	Rate		Rate	Dry-Wet Balance	Wet Mute
A9	PHASER	Rate		Rate	Dry-Wet Balance	Wet Mute
A10	COMP/LIMITER		Compressor / Limiter	Release	Threshold	Dry Thru
A11	MIC SIMULATOR		Vocal / Instrument	Threshold	Enhance	Dry Thru
B1	ROTARY	Rate		Rate	Intensity	Dry Thru
B2	CABINET SIM		Combo / Stack	Presence	Depth	Dry Thru
B3	COMP+DETUNE		Compressor / Limiter	Comp Threshold	Detune Mix	Dry Thru
B4	COMP+DELAY	Delay Time		Delay Time	Comp Threshold	Dry Thru
B5	CHORUS+REV		Warm / Clear	Chorus Mix	Reverb Mix	Dry Thru
B6	FLG+REV	Flanger Rate		Flanger Rate	Reverb Mix	Dry Thru
B7	DELAY+REV	Delay Time		Delay Time	Reverb Mix	Dry Thru
B8	POWER MIX		Short Reverb / Long Reverb	Intensity	Reverb Mix	Dry Thru
B9	WIDE MIX		Short Reverb / Long Reverb	Intensity	Reverb Mix	Dry Thru
B10	BOOST MIX		Short Reverb / Long Reverb	Intensity	Reverb Mix	Dry Thru
B11	VOCAL MIX		Short Reverb / Long Reverb	Intensity	Reverb Mix	Dry Thru

Effect Details

Reverb

This group comprises high-quality stereo reverb effects. The two available variations are a basic sound (Warm) suitable for vocals and general instrumentation, and a clear sound (Clear) suitable mainly for drums and percussion.

Effects of this section are best for use in configurations such as shown in the connection example "Recording (2) (Send/Return)" on page 4.

Effect	Description
A1 HALL	This effect simulates the acoustic characteristics of a large concert hall.
A2 ROOM	This effect simulates the acoustic space of a medium-size live venue.
A3 PLATE	This effect simulates the so-called "plate reverb" (as produced by a pickup mounted to a large, free-hanging iron plate). Especially the "Clear" variation is great for percussion.
A4 AMBIENCE	Adds natural ambience to the sound source without changing the basic sound character.

Common to	VARIATION/TAP	TIME/ADJUST	MIX	BYPASS
A1 A4	VARIATION (Warm / Clear) Selects reverb variation (Warm or Clear).	Reverb Time Adjusts reverb time.	Dry-Wet Balance Adjusts the balance between original sound and effect sound.	Wet Mute In bypass mode, only the effect sound is muted.
[Setting Example] HALL Natural sounding hall reverb that can be used both for male and female vocals.	 The MIX parameter setting in this example is for the send/return onfiguration.			 This setting gives a bright, lively reverb. The MIX parameter setting in this example is for the send/return onfiguration.

Single Effects

This section comprises various single effects to alter delay, modulation, and dynamics. Effects of this section are best for track recording in configurations such as shown in the connection example "Recording (1) (Insert)" on page 4.

Effects A5 - A9 can also be used in configurations such as shown in "Recording (2) (Send/Return)".

	Effect	Description		
A5	DELAY	Stereo delay with a maximum delay time of 700 ms. The delay time can be easily matched to the tempo of a song by performing tap input with the TAP key.		
	VARIATION/TAP TAP (Delay Time) Serves for tap input of delay time.	TIME/ADJUST Delay Time Serves for knob adjustment of delay time.	MIX Dry-Wet Balance Adjusts the balance between original sound and effect sound.	BYPASS Wet Mute In bypass mode, only the effect sound is muted.
A6	PITCH	This is a pitch effect with a wide range, from slight pitch detuning to +-1 octave pitch shift.		
	VARIATION/TAP VARIATION (Up / Down) Selects the pitch effect variation (upward pitch shift or downward pitch shift).	TIME/ADJUST Shift Controls the amount of pitch shift (detune 3 steps to +-12 semitones).	MIX Dry-Wet Balance Adjusts the balance between original sound and effect sound.	BYPASS Wet Mute In bypass mode, only the effect sound is muted.
A7	CHORUS	This is a stereo chorus effect that periodically shifts the pitch up or down and adds a wide spatial dimension to the sound. Two variations are available: soft sound (Warm) and clear sound (Clear).		
	VARIATION/TAP VARIATION (Warm / Clear) Selects the chorus variation (Warm or Clear).	TIME/ADJUST Depth & Rate Simultaneously controls the modulation depth and rate.	MIX Dry-Wet Balance Adjusts the balance between original sound and effect sound.	BYPASS Wet Mute In bypass mode, only the effect sound is muted.
A8	FLANGER	This effect adds a slightly delayed component to the original sound while periodically varying the delay time, which produces an undulating sound. The basic principle resembles the chorus effect, but since the effect also uses feedback, the resulting sound has a strong and unique character that is typical of a flanger.		
	VARIATION/TAP TAP (Rate) Serves for tap input of modulation cycle.	TIME/ADJUST Rate Serves for knob adjustment of modulation cycle.	MIX Dry-Wet Balance Adjusts the balance between original sound and effect sound.	BYPASS Wet Mute In bypass mode, only the effect sound is muted.
	[Setting Example]	Produces a jet type sound with distortion. 		
A9	PHASER	This effect adds a phase shifted component to the original sound while periodically varying the phase of the effect sound, thereby producing a surging sound. It is especially suitable for electric guitar and electric piano.		
	VARIATION/TAP TAP (Rate) Serves for tap input of modulation cycle.	TIME/ADJUST Rate Serves for knob adjustment of modulation cycle.	MIX Dry-Wet Balance Adjusts the balance between original sound and effect sound.	BYPASS Wet Mute In bypass mode, only the effect sound is muted.
	[Setting Example]	Suitable for chord backing by electric guitar and electric piano. 		

A10	COMP/LIMITER	This effect processes the dynamic range of the sound, for keeping the signal level within a certain range. There are two variations: the compressor which raises signals below a certain threshold level and attenuates signals above a certain level, and the limiter which only attenuates signals above a certain level.		
	VARIATION/TAP VARIATION (Compressor/Limiter)	TIME/ADJUST Release	MIX Threshold	BYPASS Dry Thru
	Selects the effect variation (Compressor or Limiter).	Adjusts the time lag between the point where the signal falls below the threshold level and the end of compressor action. Should be short for single instruments and longer for ensembles.	Adjusts the threshold level where the compressor/limiter becomes active.	In bypass mode, only the unprocessed original sound is output.
	[Setting Example] Compressor with pronounced attack.		[Setting Example] Limiter for preventing sudden level changes.	

Microphone simulator

When recording vocals or acoustic instruments with a dynamic microphone, this effect can be used to achieve characteristics resembling those of a high-quality condenser mike. The simulator also provides limiter and enhancer effects specially geared for microphone recording. Effects of this section are best for track recording in configurations such as shown in the connection example "Recording (1) (Insert)" on page 4.

Effect	Description			
A11	MIC SIMULATOR	This effect allows you to achieve condenser mike characteristics while using economical dynamic microphones. The available variations are "Vocal" with a full and well-rounded midrange and natural treble, and "Instrument" with the delicate sound of a condenser mike.		
	VARIATION/TAP VARIATION (Vocal/Instrument)	TIME/ADJUST Threshold	MIX Enhance	BYPASS Dry Thru
	Selects the variation (Vocal or Instrument).	Adjusts the limiter sensitivity.	Adjusts the high-range enhancer depth.	In bypass mode, only the unprocessed original sound is output.
	[Setting Example] This setting gives depth and impact to rock vocals.		[Setting Example] Suitable for recording the natural sound of an acoustic guitar.	

Guitar & Organ

Comprises a rotary effect that is essential for great organ sound, as well as a speaker cabinet simulator and other effects suitable for electric guitar and organ.

Effect	Description			
B1	ROTARY	Simulates a rotary speaker turned by mechanical means. The rotation speed can be varied by tap input.		
	VARIATION/TAP TAP (Rate)	TIME/ADJUST Rate	MIX Intensity	BYPASS Dry Thru
	Serves for tap input of rotation speed.	Serves for knob adjustment of rotation speed.	Adjusts the depth of the effect sound.	In bypass mode, only the unprocessed original sound is output.
B2	CABINET SIM	This effect adds a speaker cabinet character to the sound of an electric guitar that has been processed by distortion effects or a multi-effect device, resulting in realistic amplifier sound. The available variations are "Combo" (combo amplifier sound) and "Stack" (stack amplifier sound).		
	VARIATION/TAP VARIATION (Combo/Stack)	TIME/ADJUST Presence	MIX Depth	BYPASS Dry Thru
	Selects the effect variation (Combo or Stack).	Adjusts the level of the ultra-high range.	Adjusts the depth of the cabinet effect.	In bypass mode, only the unprocessed original sound is output.
	[Setting Example] This setting is optimized to produce a stack amplifier sound for a signal that has been processed by a distortion effect.			

Multi-Effects

Using a combination of multiple effects like a single effect is called multi-effect operation. This is most suitable when the RFX-300 is used as an insert effect device during recording or as a stand-alone effect during a live performance.

	Effect	Description		
B3	COMP+DETUNE	This is a combination of a compressor that evens out sound level differences and a detuning effect with a slightly pitch-shifted component added to the original sound.		
	VARIATION/TAP VARIATION (Compressor/Limiter)	TIME/ADJUST Comp Threshold	MIX Detune Mix	BYPASS Dry Thru
	Selects the compressor variation (Compressor or Limiter).	Adjusts the threshold for the compressor/limiter action.	Adjusts the balance between original sound and effect sound (detune).	In bypass mode, only the unprocessed original sound is output.
[Setting Example] This yields a "double tracking" effect that is great for pop songs.				
B4	COMP+DELAY	This is a combination of compressor and delay. The effect is most suitable for vocals with echo.		
	VARIATION/TAP TAP (Delay Time)	TIME/ADJUST Delay Time	MIX Comp Threshold	BYPASS Dry Thru
	Serves for tap input of delay time.	Serves for knob adjustment of delay time.	Adjusts the threshold for the compressor/limiter action.	In bypass mode, only the unprocessed original sound is output.
B5	CHORUS+REV	This is a combination of chorus and reverb, suitable for example for chord backing by acoustic guitar or electric piano.		
	VARIATION/TAP VARIATION (Warm/Clear)	TIME/ADJUST Chorus Mix	MIX Reverb Mix	BYPASS Dry Thru
	Selects the effect variation (Warm or Clear tone).	Adjusts the chorus mix amount.	Adjusts the reverb mix amount.	In bypass mode, only the unprocessed original sound is output.
B6	FLG+REV	This is a combination of flanger with strong modulation and reverb. It can be used for example with electric guitar leads, arpeggios, or for other sound effects.		
	VARIATION/TAP TAP (Flanger Rate)	TIME/ADJUST Flanger Rate	MIX Reverb Mix	BYPASS Dry Thru
	Serves for tap input of flanger modulation rate.	Serves for knob adjustment of flanger modulation rate.	Adjusts the reverb mix amount.	In bypass mode, only the unprocessed original sound is output.
[Setting Example] This setting gives light, floating feeling that is great for playing arpeggios.				
B7	DELAY+REV	A great combination of effects for vocals. Can also be used for lead guitar and electric piano solos.		
	VARIATION/TAP TAP (Delay Time)	TIME/ADJUST Delay Time	MIX Reverb Mix	BYPASS Dry Thru
	Serves for tap input of delay time.	Serves for knob adjustment of delay time.	Adjusts the reverb mix amount.	In bypass mode, only the unprocessed original sound is output.

Mixdown Effects

These effects are best suited for mixdown of multiple MTR tracks to stereo or for mastering (fine-tuning the sound and level of a final 2-track mix). They should be used in configurations such as shown in the connection example "Mixdown" on page 4.

	Effect	Description		
B8	POWER MIX	This effect gives strong bass and adds a powerful punch to the sound. It is most suitable for rock numbers. The reverb sound variations are "Short Reverb" and "Long Reverb".		
	VARIATION/TAP VARIATION (Short Reverb/Long Reverb)	TIME/ADJUST Intensity	MIX Reverb Mix	BYPASS Dry Thru
	Selects the reverb variation (Short Reverb or Long Reverb).	Adjusts the bass emphasis.	Adjusts the reverb mix amount.	In bypass mode, only the unprocessed original sound is output.
	[Setting Example] Heavy rock sound with strong drive.			
B9	WIDE MIX	Mixdown effect which stresses the stereo spread. Suitable especially for songs with emphasis on instrumental sound.		
	VARIATION/TAP VARIATION (Short Reverb/Long Reverb)	TIME/ADJUST Intensity	MIX Reverb Mix	BYPASS Dry Thru
	Selects the reverb variation (Short Reverb or Long Reverb).	Adjusts the left/right spread.	Adjusts the reverb sound mixing ratio.	In bypass mode, only the unprocessed original sound is output.
	[Setting Example] Prominent ambience in addition to reverb components.			
B10	BOOST MIX	Mixdown effect with tight low end and lively highs, ideal for rock and pop. Also allows compensation for losses at the extreme ends of the frequency spectrum that tend to occur when recording on a cassette MTR.		
	VARIATION/TAP VARIATION (Short Reverb/Long Reverb)	TIME/ADJUST Intensity	MIX Reverb Mix	BYPASS Dry Thru
	Selects the reverb variation (Short Reverb or Long Reverb).	Adjusts the low-range/high-range volume.	Adjusts the reverb mix amount.	In bypass mode, only the unprocessed original sound is output.
	[Setting Example] Produces the sound of live recording.			
B11	VOCAL MIX	This mixdown effect achieves a warm and rich vocal sound by stressing the midrange and adding plate type reverb. Optimal for ballads and other songs with emphasis on the vocals.		
	VARIATION/TAP VARIATION (Short Reverb/Long Reverb)	TIME/ADJUST Intensity	MIX Reverb Mix	BYPASS Dry Thru
	Selects the reverb variation (Short Reverb or Long Reverb).	Adjust the band level to emphasize vocal clarity and timbre.	Adjusts the reverb mix amount.	In bypass mode, only the unprocessed original sound is output.
	[Setting Example] A setting for ballads which uses reverb to stress the appeal of vocals.			

Troubleshooting

Symptom	Check	Remedy
No sound or very low volume.	• Is specified AC adapter connected and power switch set to ON?	⇒ Follow the instructions in "Turning the Unit On".
	• Is sound source connected correctly to INPUT jacks and are OUTPUT jacks connected correctly to playback equipment?	⇒ Follow the instructions in "Getting Connected".
	• Are all shielded cables used for the connection okay?	⇒ Try replacing the shielded cables.
	• Is the amplifier switched on? Is the volume at the sound source and amplifier set to proper position?	⇒ Turn amplifier on. Adjust volume of sound source.
	• Is INPUT control or OUTPUT control turned down?	⇒ Adjust INPUT control and OUTPUT control.
	• Are the batteries exhausted?	⇒ Replace batteries.
	• Is MIX control set to maximum in bypass mode?	⇒ Adjust MIX control.
Input sound breaks up or is distorted.	• Is input signal level too high?	⇒ Adjust volume of sound source and set INPUT control to a suitable position.
	• Is input signal supplied both to phone jacks and RCA type phono jacks?	⇒ Phone jack input and RCA type phono jack input cannot be used simultaneously. Connect a sound source only to one input.
	• Is LINE/MIC switch set to MIC?	⇒ Set LINE/MIC switch to LINE.
No effect sound	• Is MIX control turned fully to direct sound side?	⇒ Adjust MIX control to achieve proper balance between direct sound and effected sound.
	• Is unit set to bypass mode?	⇒ Cancel bypass mode.

Specifications

Number of Effect Programs	11 x 2 banks	Outputs	
Sampling Frequency	44.1 kHz	L, R	standard monaural phone jacks
Analog/Digital Conversion	18 bit, 64 times oversampling	L, R	RCA type phono jacks
Digital/Analog Conversion	18 bit, 8 times oversampling	Output load impedance:	100 ohms or more
		Max. output:	+6 dBm
DSP	ZOOM original ZFx-2	Power Requirements	Supplied AC adapter 9 V DC, center negative (AD-0006)
Inputs			Battery: IEC R6 (size AA) x 6
L/MONO, R	Standard monaural phone jack x 2		Battery life: approx. 10 h (with alkaline batteries)
Input impedance:	22 kilohms	Dimensions	168 (W) x 170 (D) x 59 (H) mm
Rated input level:	-10 dBm (Line)	Weight	550 g
	-56 dBm (Mike)		
L, R	RCA type phono jacks		
Input impedance:	22 kilohms		
Rated input level:	-10 dBm	* 0 dBm = 0.775 Vrms	
		* Design and specifications subject to change without notice.	



ZOOM CORPORATION

NOAH Bldg., 2-10-2, Miyanishi-cho, Fuchu-shi, Tokyo 183-0022, Japan
PHONE: +81-42-369-7116 FAX: +81-42-369-7115