



Professional Mixing Controller

# PMC-280

取扱説明書

P.2~

OWNER'S MANUAL

P.14~

〒154-0023

東京都世田谷区若林1-18-6

電話 03-3412-7011 ファックス 03-3412-7013

Web : [www.vestax.com](http://www.vestax.com)

Vestax Corporation

1-18-6 Wakabayashi, Setagaya-ku, Tokyo 154-0023 Japan

Phone 03-3412-7011 Fax 03-3412-7013

Web : [www.vestax.com](http://www.vestax.com)

Vestax (Europe) Ltd.

Unit 5 Riverway Industrial Park Alton Hampshire GU34 2QL England, U.K.

Phone (0)1420-83000 Fax (0)1420-80040

Web : [www.vestax.co.uk](http://www.vestax.co.uk)

Vestax Europe Technical Support

Rheinstr.213 D-53332 Bornheim Germany

Phone 49(0)2222-95-23-72 Fax 49(0)2222-95-23-74



---

# CONGRATULATIONS !

Thank you for purchasing the Vestax PMC-280 Professional Mixing Controller. We suggest that you read through this owner's manual thoroughly so that you may enjoy the full use of this product safely and in the knowledge of all its special features and suitable applications.

## CONTENTS

C A U T I O N .....	14
IMPORTANT SAFEGUARDS .....	15
F E A T U R E S .....	16
CONTROLS AND FUNCTIONS .....	17
T O P   P A N E L .....	17
F R O N T   P A N E L .....	18
R E A R   P A N E L .....	19
ABOUT THE EFFECTS .....	20
HOW TO CHANGE THE FADER UNIT .....	25
CONNECTION DIAGRAM .....	26
S P E C I F I C A T I O N S .....	27

	<div style="background-color: black; color: white; padding: 5px;"><b>CAUTION</b></div> <div style="border: 1px solid black; padding: 5px;"><b>RISK OF ELECTRIC SHOCK DO NOT OPEN</b></div>	
<b>CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL</b>		



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.

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

---

# IMPORTANT SAFEGUARDS

## READ BEFORE OPERATING EQUIPMENT

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

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. Cleaning-Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. Attachments-Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Water and Moisture-Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. Accessories-Do not place this product on an unstable cart, stand, tripod, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with product. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. Power sources-This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.
11. Lightning-For added protection of this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power-line surges.
12. Overloading-Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
13. Object and Liquid Entry-Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
14. Servicing-Do not attempt to service product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified personnel.

---

15. Damage Requiring Service- Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled or objects have fallen into the product.
- c. If the product has been exposed to rain or water.
- d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- e. If the product has been dropped or cabinet has been damaged.
- f. When the product exhibits a distinct change in performance this indicates need for service.

16. Replacement Parts- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock or other hazards.

17. Safety Check- Upon completion of any service or repairs to product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

18. Carts and Stands- The appliance should be used only with a cart stand that is recommended by manufacturer.

19. 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.



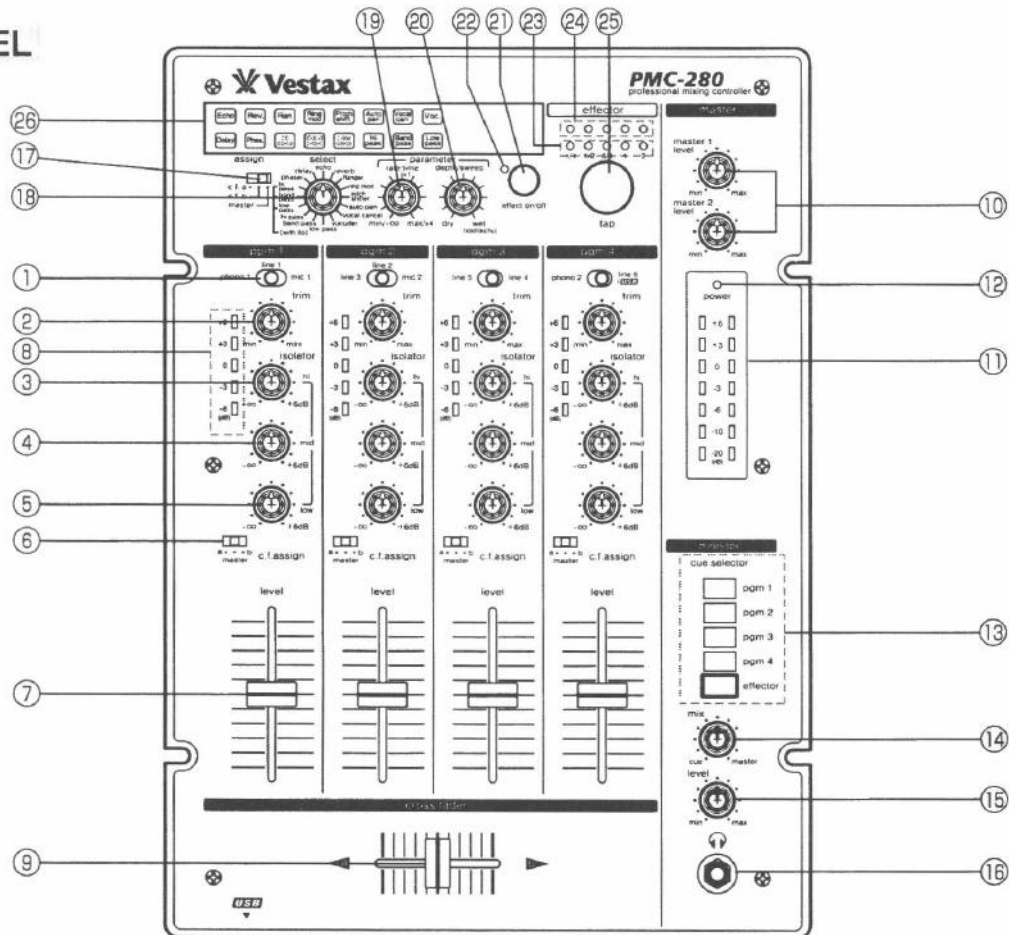
## FEATURES

---

- Effects are assignable separately to the master section and A & B side of the crossfader. Easily selectable with the effect assign switch.
- A High-grade 24bit/96kHz Digital Sound Processor (DSP) has been applied to the PMC-280 for better sound quality and less latency.
- Original algorithm developed so that each effect parameter is adjustable with simple operation.
- The TAP button is used to set the delay time and LFO rate, simply by tapping the button. The inputted tempo can be switched to 1/4, 1/2, 3/4 and double of the original tempo instantly with the beat select switches.

# CONTROLS AND FUNCTIONS

## TOP PANEL



### ① INPUT SELECTOR

Used to select the signal (LINE or PHONO) to be sent to each PGM channel. The upper most position will select PHONO input. This selector switch can also be used to perform for TRANSFORMER SCRATCH.

※When 2 individual inputs are connected to LINE 6 and USB(Optional, please read FRONT PANEL on page18) and if the input select switch of PGM 4 is set to LINE 6/USB, both signals will be mixed in to the channel.

### ② TRIM VOLUME

Adjusts the input level of each channel. For optional acoustic quality, set the INPUT LEVEL VOLUME to a position of 7 or 8 then; adjust the TRIM so that a sufficient signal is fed through the channel without distorting.

### ③ ISOLATOR HI

Adjusts the HI frequency level of each PGM.

### ④ ISOLATOR MID

Adjusts the MID frequency level of each PGM.

### ⑤ ISOLATOR LOW

Adjusts the LOW frequency level of each PGM.

### ⑥ C.F. ASSIGN SWITCH

Assigns the signals from each of the PGM channels to either side of the crossfader and to OUTPUTS as well. There are three positions; A...The PGM is sent to the "A" position or left

position of the crossfader.

MASTER...The PGM is sent directly to the OUTPUTS.

B...The PGM is sent to the "B" position or right side of the crossfader.

### ⑦ INPUT LEVEL FADER

Used to adjust the input level of each PGM channel.

### ⑧ INPUT LEVEL METER

The LED level meters indicate the input signal level of each PGM channel.

### ⑨ CROSS FADER

When the input level of PGM1 and PGM2 are properly set, PGM1 will be heard with the crossfader set to the left side. PGM2 will be heard with the cross fader set to the right side. When the crossfader is set in the center, both programs will be heard. This fader is detachable for easy replacement with "CF-R US" when it is worn out.

### ⑩ MASTER LEVEL VOLUME

Adjusts the signal level outputs from OUTPUT JACKS ⑩.

### ⑪ MASTER LEVEL METER

The LED level meters indicate the master signal level of each PGM channel.

### ⑫ POWER INDICATOR

Lights up when the POWER SWITCH ⑫ is on.

**⑬ CUE CHANNEL SELECT SWITCH**

This switch is used to select which program channel 1-4 is heard in headphones connected to the mixer.

**⑭ MONITOR MIX VOLUME**

This volume is used to select which type of monitor signal, either CUE or MASTER, is heard in headphones connected to the mixer. When set to CUE, signals from PGM channel selected by CUE CHANNEL SELECT SWITCH<sup>⑭</sup> will be heard. When set to MASTER, signals from OUTPUT will be heard. Signals are mixed as volume knob is turned.

**⑮ MONITOR LEVEL VOLUME**

Adjusts the headphone monitor level.

**⑯ PHONE JACK**

Connect the headphones with the impedance of 8ohm to 600ohm

**⑰ Effect assign**

This switch selects the sound source to have effects added to. The assign section is selectable from the A & B side of the crossfader and the Master sound.

**⑱ Effect select**

This switch selects the type of effect you wish to use.

**⑲ Rate/time volume**

This volume adjusts the rate/time of each effect.

**⑳ Depth/sweep volume**

This volume adjusts the depth/sweep of each effect.

**㉑ Effect on/off button**

This button turns the effector on ON/OFF.

**㉒ Effect on/off indicator**

This indicator lights up when the effector is ON.

**㉓ Beat select button**

This button changes each effect tempo set with the TAP button or rate/time volume to 1/4, 1/2, 3/4, 1 and 2 of the original tempo.

**㉔ Beat select indicator**

This indicator indicates the selected beat button.

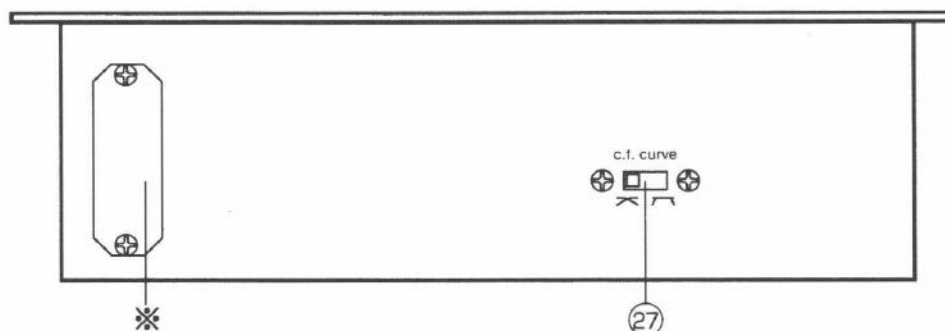
**㉕ TAP button**

The rhythm of when this button is pushed for more than 2 times becomes the BPM of the "1" button.

**㉖ Effect select display**

This display displays the type of the selected effect.

**FRONT PANEL**



**㉗ C.F. CURVE SELECT SWITCH**

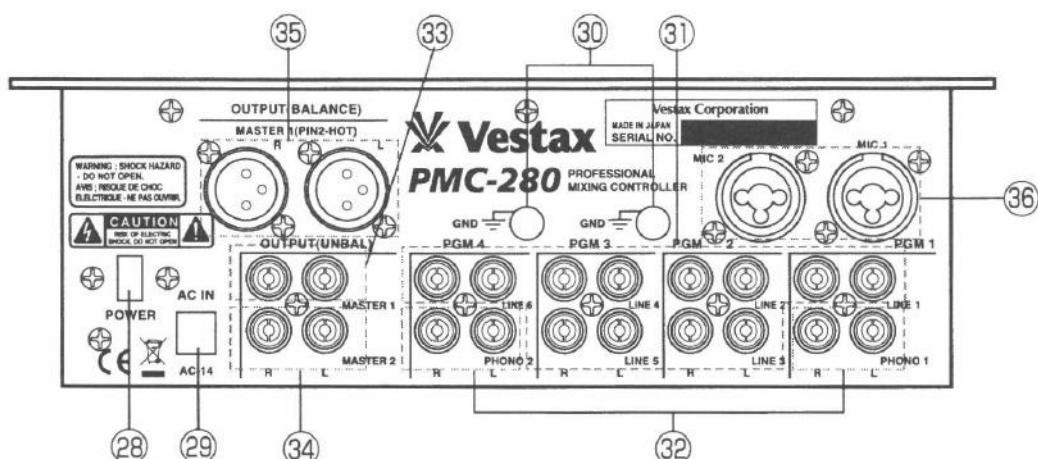
Adjusts the crossfader curve. Setting to the right side gives a steep crossfader good for

scratching and cutting, whereas, setting to the left side gives a gentle crossfader good for long running mixes.

**\*OPTION BOARD INSERT**



## REAR PANEL



### 28 POWER SWITCH

Used to turn power on. When you operate this switch, make it sure that the volume of the connected powered amplifier is how enough or the main switch of amplifier is turned off. If you use other adaptor, may cause damage to the mixer.

### 29 POWER IN JACK

Connect the Vestax AC-14 an exclusive, AC adaptor.

### 30 GROUND TERMINAL

Connect this terminal to the ground lead of the turntables.

### 31 LINE INPUT JACK

Connect the equipment with line level output (-10dB or 0dB), such as CD players, tape decks, DATs, MDs, etc. The signal from line level equipment is fed to the PGM channels when Line input is selected.

### 32 PHONO INPUT JACK

Connect turntables equipped with MM (Moving Magnet type) cartridge. The signal from the turntable is fed to the PGM channels when Phono input is selected.

### 33, 34, 35 OUTPUT JACK

Connect to the input on a powered amplifier. These jacks are RCA PIN type and XLR type for consumer applications. This mixer has two sets of OUTPUT jacks so that the each output level can be set separately. Therefore, the OUTPUT can be used for main output or sub output IE. One for the main area and the other for recording.

### 36 MIC INPUT JACK

Input jack for MIC. Corresponds to  $\phi$  6.3 standard monoral plug or XLR plug.

# ABOUT THE EFFECTS

## ① DELAY

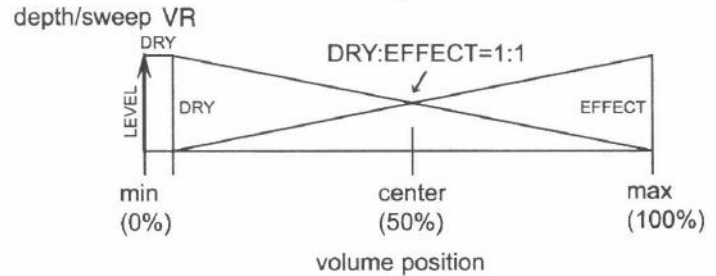
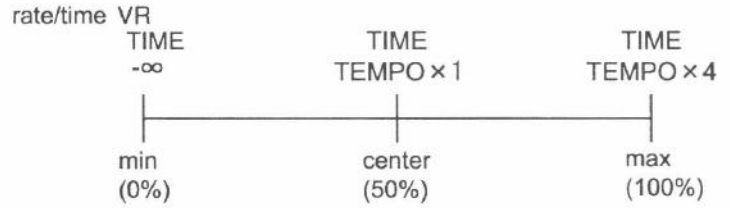
This effect adds a delay sound to the original sound.  
Maximum delay time is 2.7seconds.

### ■ TAP button

The average tempo set by pushing the TAP button more than 2 times becomes the LFO cycle tempo.

### ■ Beat select button

"1/4"  $TEMPO = (A) \times 1/4$   
 "1/2"  $TEMPO = (A) \times 1/2$   
 "3/4"  $TEMPO = (A) \times 3/4$   
 "1"  $TEMPO = (A) \times 1$   
 "2"  $TEMPO = (A) \times 2$



## ② ECHO

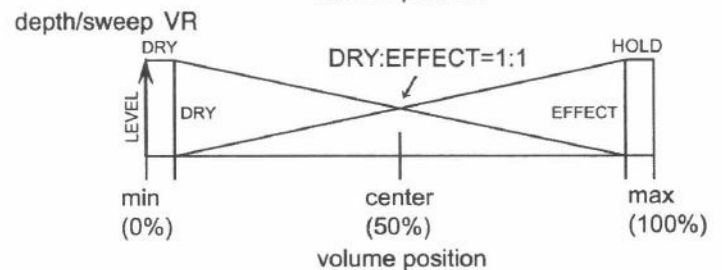
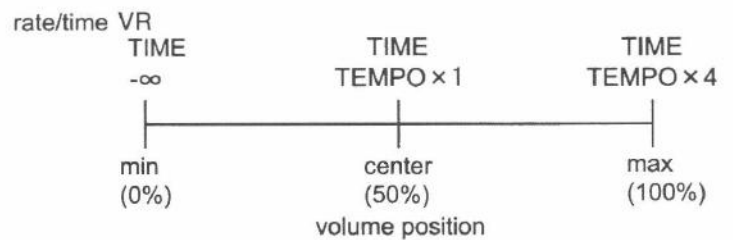
This effect adds numerous delay sounds to the original sound.

### ■ TAP button

The average tempo set by pushing the TAP button more than 2 times becomes the LFO cycle tempo.

### ■ Beat select button

"1/4"  $TEMPO = (A) \times 1/4$   
 "1/2"  $TEMPO = (A) \times 1/2$   
 "3/4"  $TEMPO = (A) \times 3/4$   
 "1"  $TEMPO = (A) \times 1$   
 "2"  $TEMPO = (A) \times 2$

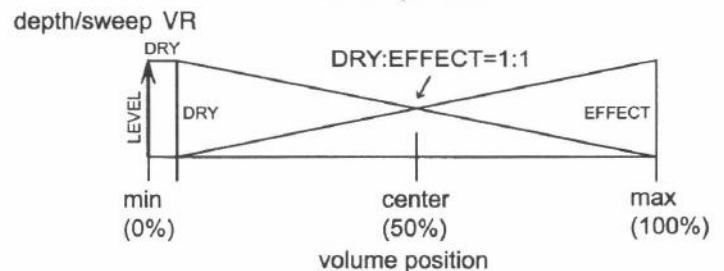
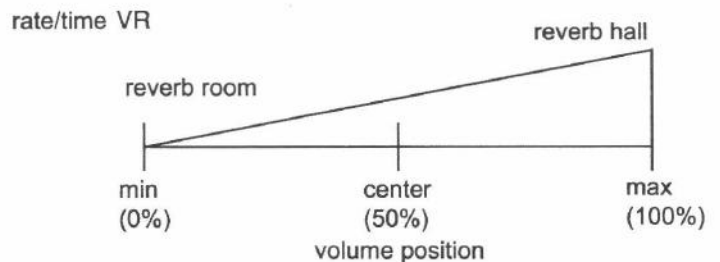


### ※ HOLD

The echo repeating sound will repeat play in the rhythm of the TEMPO when the depth/sweep volume is set to HOLD. The TEMPO of the repeating sound can be set with rate/time volume and beat select button.

## ③ REVERB

This effect adds a reverberant sound to the original sound.





#### ④ FLANGER

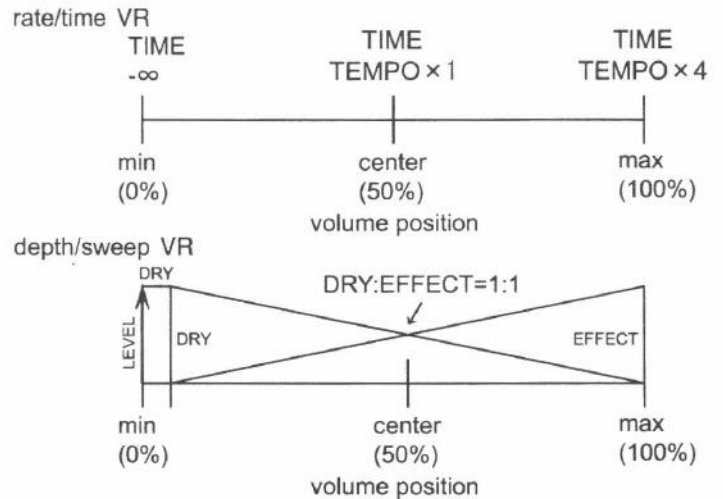
This effect adds a time-shifted sound to the original sound.

##### ■ TAP button

The average tempo set by pushing the TAP button more than 2 times becomes the LFO cycle tempo.

##### ■ Beat select button

- "1/4" TEMPO= (A)  $\times$  1/4
- "1/2" TEMPO= (A)  $\times$  1/2
- "3/4" TEMPO= (A)  $\times$  3/4
- "1" TEMPO= (A)  $\times$  1
- "2" TEMPO= (A)  $\times$  2

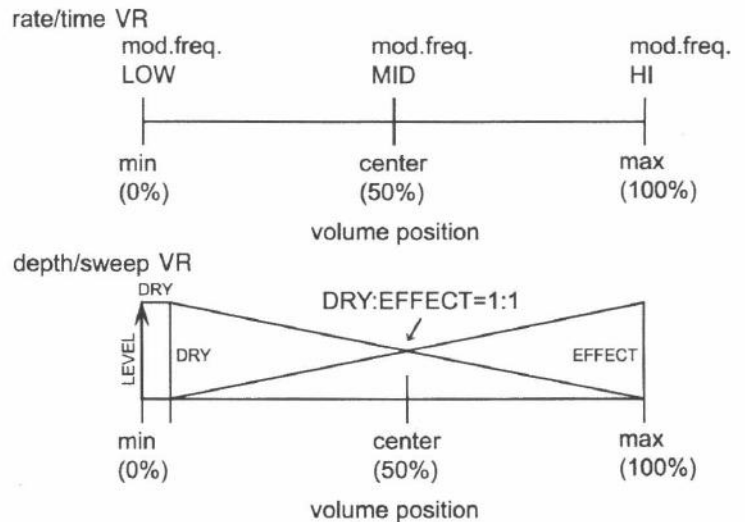


#### ※ Restarting the LFO

This feature restarts the LFO cycle to gain the same LFO effect when adjusting the depth/sweep volume and beat select button.

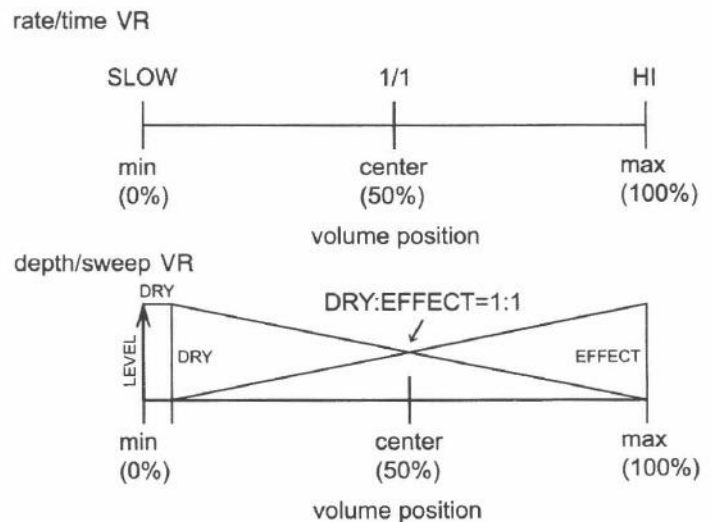
#### ⑤ RING MOD.

This effect modulates the original sound with sign wave patterns.



#### ⑥ PITCH SHIFTER

This effect changes the pitch of the original sound.



## ⑦ AUTO PAN

This effect changes the volume balance of left and right.

### ■ TAP button

The average tempo set by pushing the TAP button more than 2 times becomes the LFO cycle tempo.

### ■ Beat select button

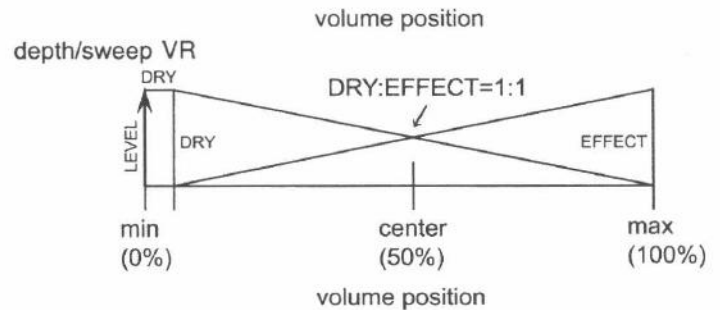
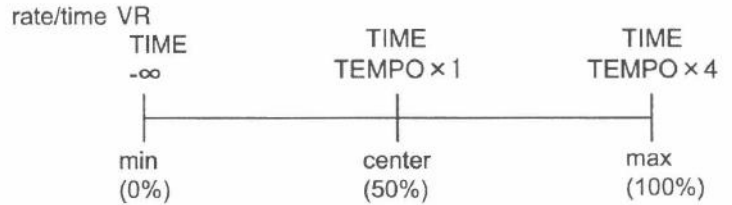
"1/4"  $\text{TEMPO} = (A) \times 1/4$

"1/2"  $\text{TEMPO} = (A) \times 1/2$

"3/4"  $\text{TEMPO} = (A) \times 3/4$

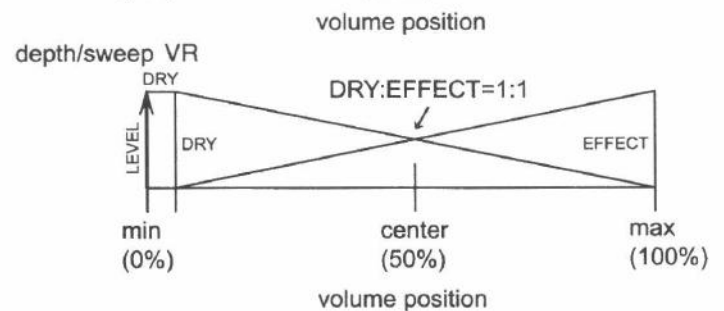
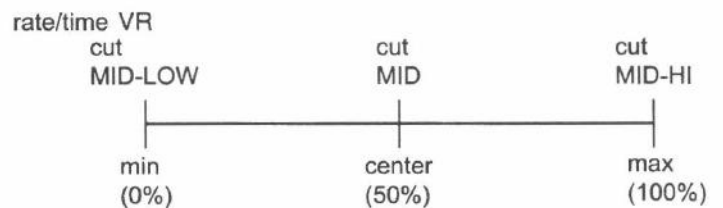
"1"  $\text{TEMPO} = (A) \times 1$

"2"  $\text{TEMPO} = (A) \times 2$



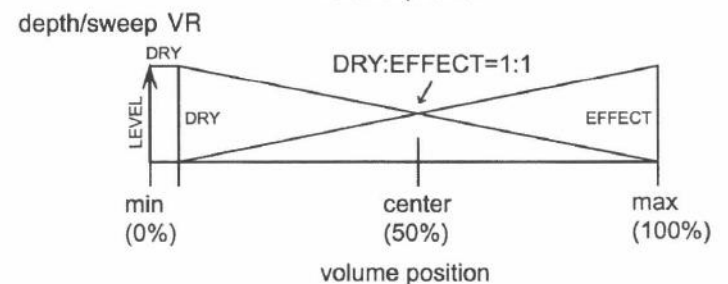
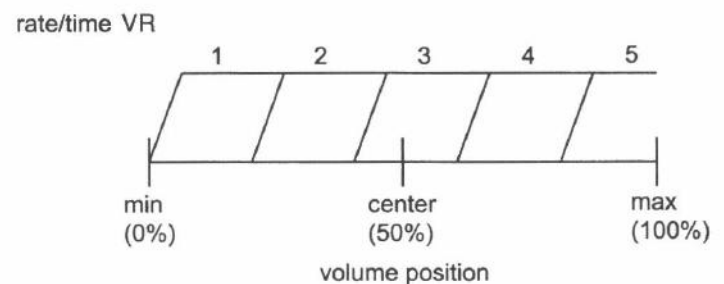
## ⑧ VOCAL CANCEL

This effect affects the mid frequency and cuts out the vocal sound.



## ⑨ VOCODER

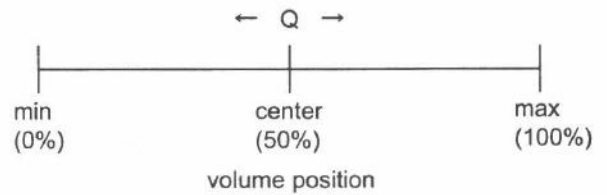
This effect changes the original sound to a robotic sound.



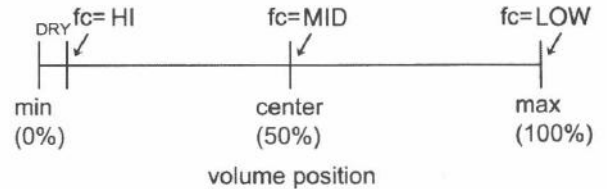
### ⑩ LOW PASS FILTER (MANUAL)

The Q changes with the rate/time volume. The depth/sweep volume adjusts the filter frequency.

rate/time VR



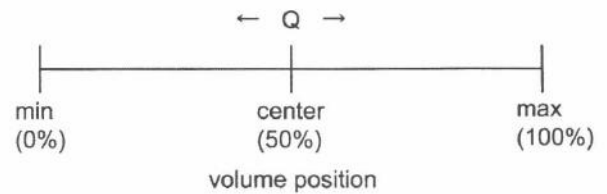
depth/sweep VR



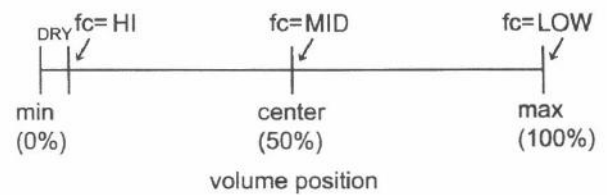
### ⑪ BAND PASS FILTER (MANUAL)

The Q changes with the rate/time volume. The depth/sweep volume adjusts the filter frequency.

rate/time VR



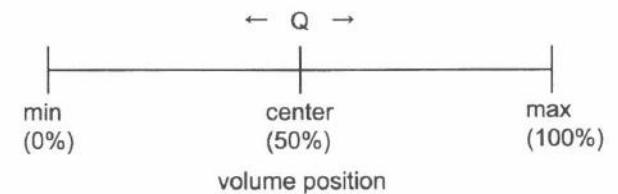
depth/sweep VR



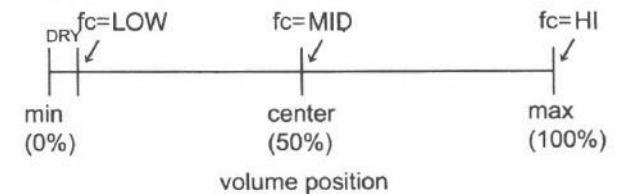
### ⑫ HI PASS FILTER (MANUAL)

The Q changes with the rate/time volume. The depth/sweep volume adjusts the filter frequency.

rate/time VR



depth/sweep VR



#### ⑭ BAND PASS FILTER with LFO

#### ⑮ HI PASS FILTER with LFO

The filters frequency changes in the time cycle set with the rate/time volume and TAP button.

##### ■ TAP button

The average tempo set by pushing the TAP button more than 2 times becomes the LFO cycle tempo.

##### ■ Beat select button

"1/4"  $\text{TEMPO} = (A) \times 1/4$

"1/2"  $\text{TEMPO} = (A) \times 1/2$

"3/4"  $\text{TEMPO} = (A) \times 3/4$

"1"  $\text{TEMPO} = (A) \times 1$

"2"  $\text{TEMPO} = (A) \times 2$

#### ⑯ PHASER

This effect adds different phases to the original sound.

##### ■ TAP button

The average tempo set by pushing the TAP button more than 2 times becomes the LFO cycle tempo.

##### ■ Beat select button

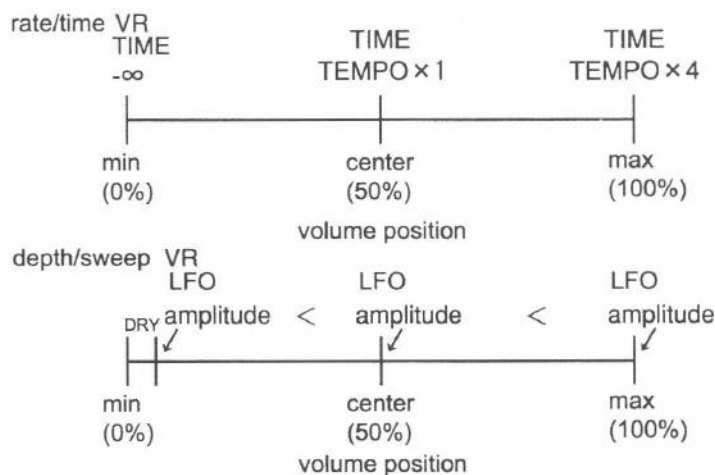
"1/4"  $\text{TEMPO} = (A) \times 1/4$

"1/2"  $\text{TEMPO} = (A) \times 1/2$

"3/4"  $\text{TEMPO} = (A) \times 3/4$

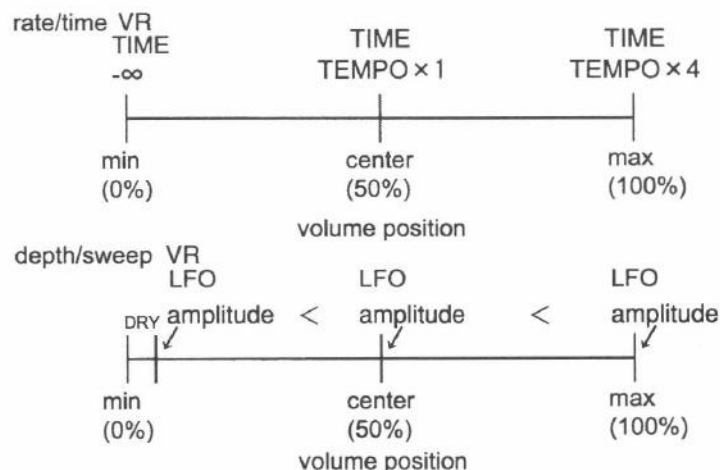
"1"  $\text{TEMPO} = (A) \times 1$

"2"  $\text{TEMPO} = (A) \times 2$



##### ※ Restarting the LFO

This feature restarts the LFO cycle to gain the same LFO effect when adjusting the depth/sweep volume and beat select button.



##### ※ Restarting the LFO

This feature restarts the LFO cycle to gain the same LFO effect when adjusting the depth/sweep volume and beat select button.

## HOW TO CHANGE THE FADER UNIT

### CAUTION

- When you change the fader, make it sure that the main switch is turned off. If not, may cause noise or short circuit.
- When you use the screwdriver, make it sure that you should choose the right side. Otherwise, may break screws.

### ■ HOW TO REMOVE THE TOP PANEL.

- ① Remove all fader knobs and the 6 screws (\*). (see fig.A)
- ② Remove the top panel.

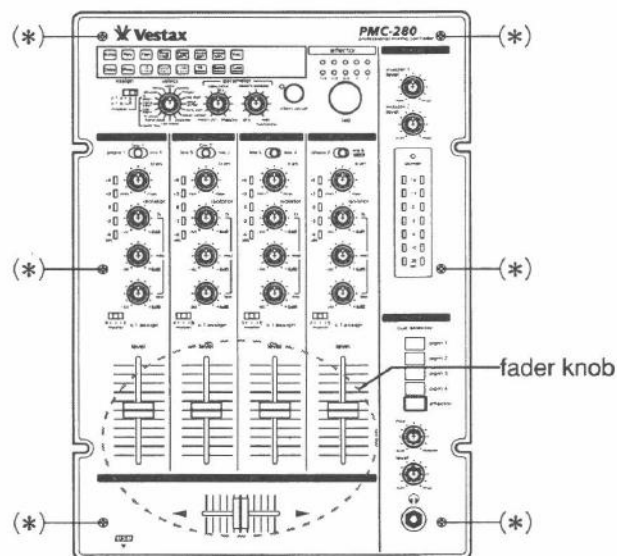


fig.A

### ■ HOW TO CHANGE THE FADER UNIT

- ① Remove the screws on the fader panel. (see fig.B)
- ② Remove the fader unit from the mixer.
- ③ Carefully remove the multi-cable connector from fader unit. (see fig.C)
- ④ Attach multi-cable connector to new fader unit.
- ⑤ Position the fader unit carefully and secure with screws.

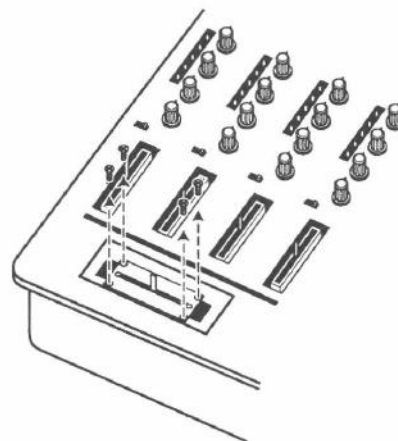


fig.B

### ■ HOW TO REPLACE THE CF UNIT WITH "CF-PCV"

Please see fig.C for replacement of the fader. Place the fader unit in the proper position and fix it with two screws. (fig.D-b)  
There is a switch for CF-PCV unit. When "CF-PCV" unit is installed, set the switch to "PCV" mode.

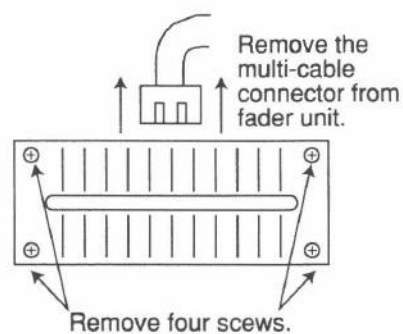


fig.C

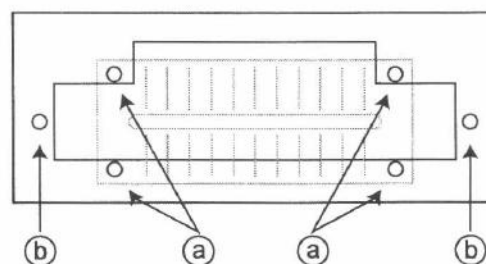
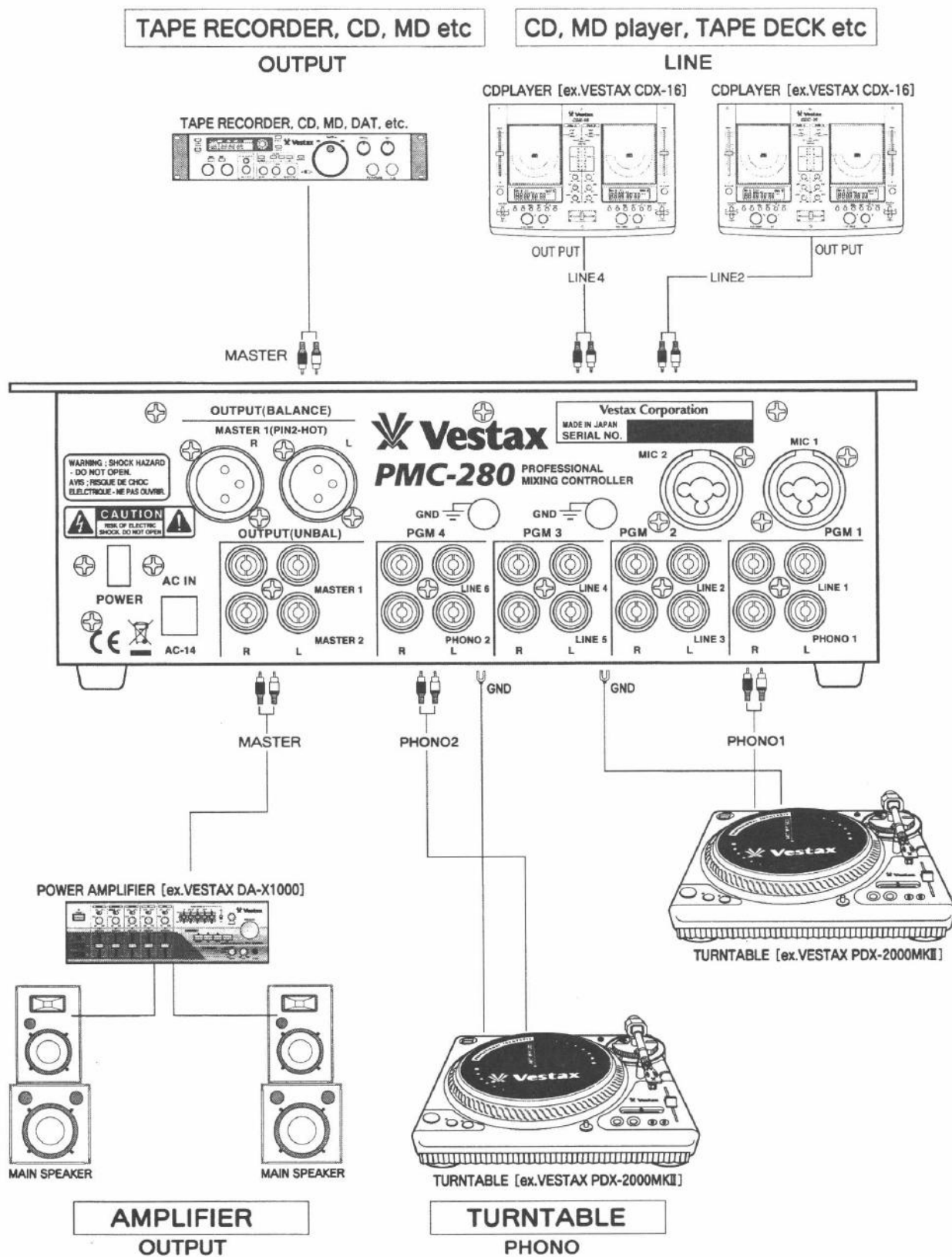


fig.D

- (a): CF-RUS or CF-R  
(b): CF-PCV

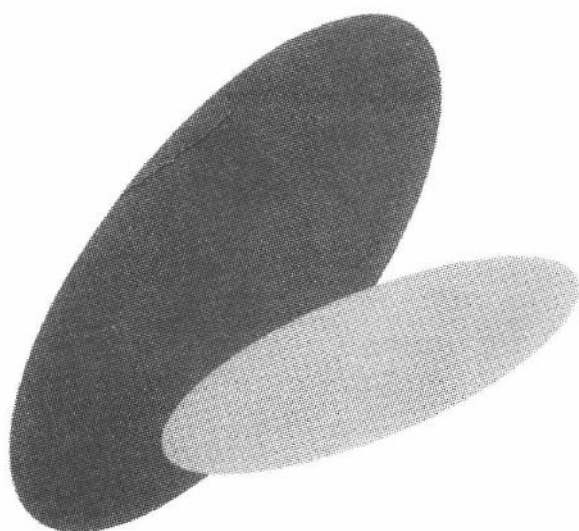
# CONNECTION DIAGRAM [example]





# SPECIFICATIONS

INPUT SECTION		NOMINAL INPUT	MAXIMUM INPUT	IMPEDANCE
MIC IN:PGM-1~2 (φ6.3 PHONE JACK / UNBALANCED)		-52dBv (2.5Vrms)	-30dBv (32mVrms)	3.3kΩ
PHONO IN:PGM-1,4 (RCA PIN JACK / UNBALANCED)		-45dBv (5.6Vrms)	-22dBv (80mVrms)	49kΩ
LINE IN:PGM-1~4 (RCA PIN JACK / UNBALANCED)		0dBv (1.0V)	+11dBv (70Vrms)	7kΩ
OUTPUT SECTION		NOMINAL INPUT	MAXIMUM INPUT	IMPEDANCE
MASTER OUT:1~2 (RCA PIN JACK / UNBALANCED)		0dBv (1.0Vrms)	+17.5dBv (7.5Vrms)	220Ω
PHONES (φ6.3 PHONE JACK)			100mW (47Ω102d)	>8Ω
ISOLATER (PGM-1~4)	:HI	2.5kHz≤ / BOOST:+6dB CUT:-∞		
	:MID	250Hz ~ 2.5kHz / BOOST:+6dB CUT:-∞		
	:LOW	≤250Hz / BOOST:+6dB CUT:-∞		
FREQUENCY RESPONSE	:LINE	20Hz ~ 20KHz ±3dB		
S/N RATIO	:LINE	70dB≤		
CROSS TALK	:C.F.	65dB≤		
	:PGM	65dB≤		
OTHER				
POWER SUPPLY		AC-14 1500mA		
POWER REQUIREMENT		≒20VA		
WEIGHT		≒4.5kg		
DIMENSIONS (W×H×D)		264×80 (100=including knob) ×393 (mm)		



### CONGRATULATIONS!

Thank you for purchasing Vestax's PMC-280.

There has been a change in the "HOW TO CHANGE THE FADER UNIT" section in page 25.

Please read this supplemental instruction sheet to operate the PMC-280 safely and to enjoy its full spec.

### ■ HOW TO CHANGE THE FADER UNIT

- ① Remove the screws on the fader panel.  
(see fig.B)
- ② Remove the fader unit from the mixer.
- ③ Carefully remove the multi-cable connector from fader unit.  
(see fig.C)
- ④ Attach multi-cable connector to new fader unit.
- ⑤ Position the fader unit carefully and secure with screws.

### ※ HOW TO REPLACE THE CF UNIT WITH "CF-PCV"

Please see fig.C for replacement of the fader. Place the fader unit in the proper position and fix it with two screws. (fig.D-b)

There is a switch for CF-PCV unit. When "CF-PCV" unit is installed, set the switch to "PCV" mode.

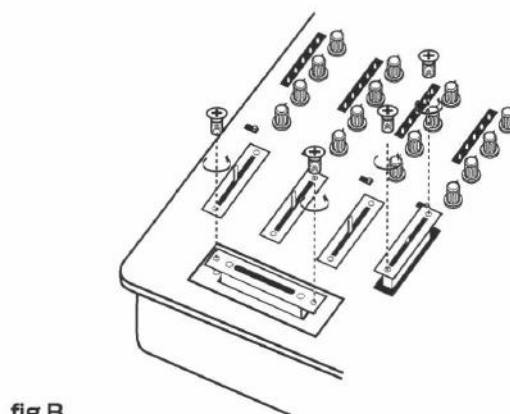
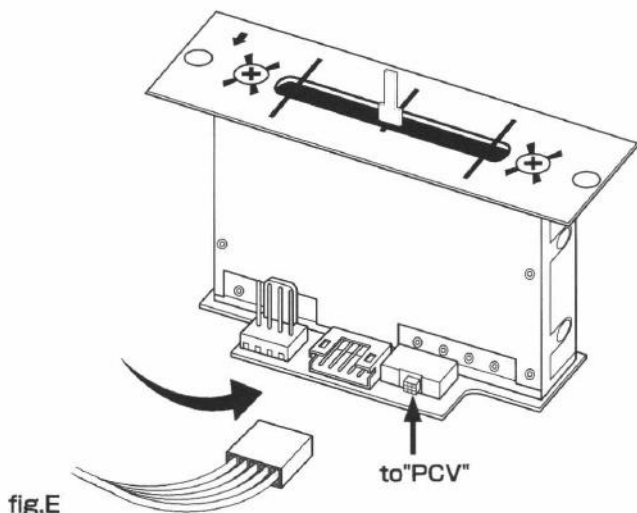


fig.B

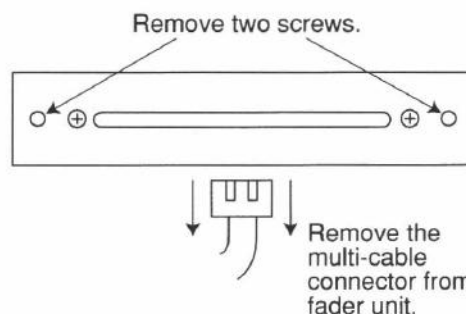


fig.C

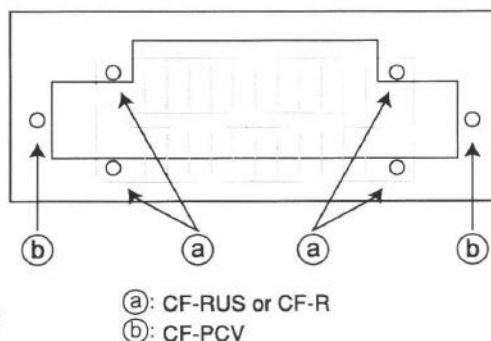


fig.D