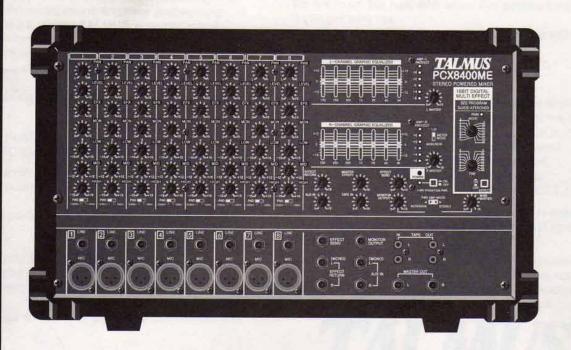
### TALMUS

### **POWERED MIXER**



PCX6400ME
6 CHANNEL POWERED MIXER-AMPLIFIER

PCX8400ME 8 CHANNEL POWERED MIXER-AMPLIFIER

**OWNER'S MANUAL** 

### PCX-Series

### Congratulations!

You have just purchased one of the finest powered mixers on the market today. This unit was developed using expertise of professional sound engineer and working musicians. You will find your TALMUS powered mixer has superior performance and greater flexibility than any other powered mixer in its price range.

Read this manual carefully to get the most out of your unit

Thanks for selecting TALMUS as your choice in powered mixers.

### Features

PCX8400ME, PCX6400ME.STEREO POWERED MIXERS

Choice of 6 channel (PCX6400ME)or 8 channel (PCX8400ME) powered mixer-amplifier

- . Top of the line performance and operating flexibility and convenience
- Built in selectable 16 mode, 128 program digital stereo signal processing (DSP) for the widest possible choice of different reverb and multi-effects delay
- Dual 200 watt(@ 4 Ohms) amplifier can both mains and monitors.
- Each channel includes stereo pan, effects and level controls, 3 band EQ and signal pad switches
- . 7 band stereo master graphic EQ's
- . Selectable 48V phantom power on mic inputs
- , 5 LED stereo level indicator
- . Switchable level meter (L,R/Monitor, Main)
- . Switchable power amplifier (Right/Monitor, Left/Main)
- . Left, right and main master level controls
- Master section also includes:stereo effect send, return and master, aux in, tape in and monitor out level controls; aux stereo input; stereo mix output; stereo tape input and stereo recording output
- . All level controls have center detents
- . Effect send and monitor output
- . 20 dB pad switch on each input
- . Thermal and short circuit protection
- Rugged road carrying case with reinforced corners and handles

### **PRECAUTIONS**

- To prevent or shock hazard, do not expose this appliance to rain or moisture.
- . To prevent the risk of electric shock, do not remove cover(or back). No user serviceable parts inside. Refer servicing to qualified servicing to qualified service personnel.
- . Always power off before making connections.
- . Always use the correct AC power source.
- Do not touch the heat sink when this powered mixer in use.
   It can get very hot.
- Keet this powered mixer away from locations with excessive heat, humidity, dust or vibration.

### PROTECTION CIRCUITS.

This powered mixer is built with a temperature limiting circuit, a short circuit current limiting circuit (to protect the power amplifier against incorrect loading), a power on and off anti-thump circuit, and a DC protection to prevent any damage to the speaker system being used. You will be notified of such a protection via the LED indicator POWER AMP-L AMP-R PROTECT.

The temperature limiting circuit, if trigger, will restore operation when the unit has cooled to a normal operating temperature.

To prevent such as abnormal condition, the powered mixer should ideally be situated on a hard, flat, stable, surface, with correct speaker matching, correct power source, and with adequate air circulation around the unit.

### TALMUS



The operating instructions in this owners manual are for both the PCX6400ME and PCX8400ME powered mixers. For brevity, the copy refers to the PCX8400ME only (as this model has more inputs) but the instructions apply to the PCX6400ME as well.

The primary differences between there 2 models is as follows:

### . PCX6400ME

6 channels of inputs and controls

### PCX8400ME

8 channels of inputs and controls



### 1. PAN

This control allows you to set the position of the signal in the stereo image. When in the central position the channel signal is routed equally to both L & R outputs.

### LEVEL

This adjusts the output level for each channel.

### 3. EFX(EFFECT)

This control allows you to adjust the amount of signal that is sent to the EFFECT bus. The signal that of the EFX bus passes through the EFFECT section and built-in effect, and is sent to the external effect device connected to the EFFECT SEND jack (35).

Note: The signal is sent to the EFX bus from a location after the LEVEL pot (2) of each channel. This mean that the amount of signal that is sent to the EFX bus will be affected not only by the setting of the effect control, but the setting of the level control.

### MON(MONITOR)

This control allows you to adjust the amount of signal sent to the MONITOR bus. The signal of the MONITOR bus is sent to the POWER AMP 2 A/B jacks(only if the PWR AMP MODE selector switch 30 is in the MON/MAIN position) and to the MONITOR OUTPUT jack 37.

Note: The signal is sent to the MONITOR bus from a location before the LEVEL control 2 of each channel. This means that will not affected by the setting of the LEVEL control.

### LOW

This control allows the adjustment of the low frequencies with a cut or boost of ±15dB from the flat position.

### 6. MID(MIDDLE)

This control allows the adjustment of the middle frequencies with a cut or boost of ±12 dB from the flat position.

### 7 HIGH

This control allows the adjustment of high frequencies with a cut or boost of ±15dB from the flat position.

### 8. PAD

This switch attenuates the input signal by 20dB. When connecting a line level device to channels, or if the mic input is distorted, set this switch to the position of -20dB.

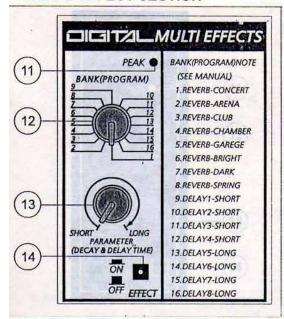
### 9. LINE

This is a high impedance, unbalanced line, 3-pole, 1/4"(stereo) TRS jack input suitable for stereo line level devices such as synthesizers, electric quitars, rhythm boxes

### 10. MIC

This is a balanced XLR input socket suitable for the connection of low impedance microphones, either balanced or unbalanced.

### DIGITAL EFFECT SECTION



### 11. PEAK

This indicator allows you to monitor the level of the digital effect signal which is output from the built-in 16bit digital effect. To avoid distortion, adjust the MASTER EFFECT 25 so that the indicator lights only occasionally on peak levels.

### 12. MODE

Select the effect MODE for the built-in digital effect according to the PROGRAM GUIDE on page 9 of this manual.

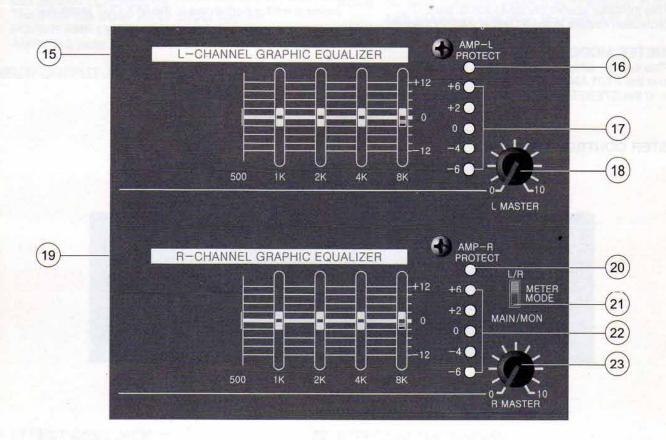
### **13. TIME**

Select the effect TIME for the built-in digital effects according to the PROGRAM GUIDE on page 9 of this manual.

### 14. EFFECT ON/OFF switch

To use the built-in effects, press this switch to ON.

### 7- BAND STEREO GRAPHIC EQUALIZER SECT



### 15. L-CHANNEL GRAPHIC EQUALIZER

The 7-band L-CHANNEL GRAPHIC EQUALIZER allows you to adjust the frequency response of the L-CHANNEL and MAIN bus signal, providing a maximun of ±12dB of cut and boost for each frequency band from the flat position.

This graphic equalizer effects both the MAIN

bus signal that is output to the speakers and

the level signal which is output from the MIX OUT jacks (41).

### 16. AMP-L PROTECT

This indicator shows the operation of the protection circuits in the POWER AMP-L section.

### 17. LED VU METER

This will display the relative output level of the Left Master Channel. It also will display the relative output level of the speakers connected to the POWER AMP CH1 jacks(only if the PWR AMP MODE selector switch 30 is the MON/ MAIN POSITION).

### 18. L-MASTER

This controls the final level of the Left Master Channel bus. This control allows you to:

. Set the amount of the Master Left signal sent to the internal left power amplifier.

Set the amount of the Master Left signal sent to external power amplifier connected to the MIX OUT jacks 41 .

### 19. R-CHANNEL GRAPHIC EQUALIZER

The 7-band R-CHANNEL GRAPHIC EQUALIZER allows you to adjust the frequency response of the R-CHANNEL bus, providing a maximum of ±12dB of cut and boost for each frequency band from the flat position.

### 20. APM-R PROTECT

This indicator shows the operation of the protection circuits in the POWER AMP-R section.

### 21. METER MODE

This switch, when selected in the L/R position, and the PWR AMP MODE selector switch (30) is in the STEREO position, will enable channels of the

UV METER tol display the relative output level of the Left and Right Master channels.

When this switch is in the MAIN/MON position, and the PWR AMP MODE selector switch ③ is in the MON/MAIN position, the L-CHANNEL VU METER will display the relative output level of the MONITOR bus that is sent to the speakers connected to the POWER AMP CH 2 jacks, and the R-CHANNEL VU METER will display the relative output level of the MAIN bus that is sent to the speakers connected to the POWER AMP CH 1 jacks.

### 22. LED VU METER

This will display the relative output level of the Right Master Channel.

It also will display the relative output level of the MAIN bus that is sent to the speakers connected to the POWER AMP 1 A/B jacks(only if the PWR AMP MODE selector switch 30 is in the MON/MAIN position.)

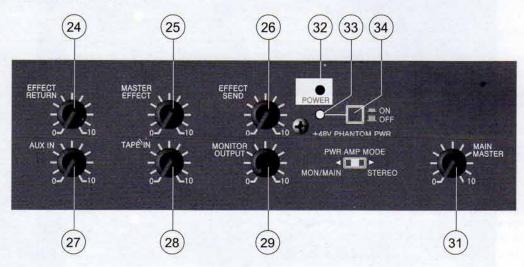
### 23. R-MASTER

This controls the final level of the Right Master Channel bus. This control allows you to;

Set the amount of the Master Right signal sent to the internal right power amplifier.

Set the amount of the Master Right signal sent to the external power amplifier connected to the MIX OUT jacks (41).

### MASTER CONTROL SECTION



### 24. EFFECT RETURN

This adjusts the level of the effect signal that is sent from the external effect device connected to the EFFECT RETURN L,R jacks 36

### 25. MASTER EFFECT

This adjusts the level of the effect signal from the built-in 16bit digital effect.

### 26 .EFFECT SEND

This adjusts the level of the input channel signal to the external effect device connected to the EFFECT SEND jacks 35

### **27. AUX IN**

This adjusts the amount of signal that is sent from the external device connected to AUX IN L,R jacks  $\widehat{38}$ .

### 28. TAPE IN

This adjusts the amount of signal that is sent from the external tape player connected to TAPE IN L,R jacks 39.

### 29. MONITOR OUT

This adjusts the final level of the MONITOR bus. If affects both the MONITOR bus signal which is output to the speakers connected to the POWER AMP CH 2, and the external monitor amplifier connected to the MONITOR OUTPUT jacks (only if the PWR AMP MODE selector switch is in the MON/MAIN position.)

### 30. POWER AMP MODE

This selection allows you to select the signal that will be output from the built-in dual channel amplifier, and to select the STEREO, and MONITOR/MAIN mode.

Select one of the following three settings to specify the signals that will be output from POWER AMP CH 1, CH 2.

### .STEREO

With this setting, the two power amp channels can be used independently.

The MAIN bus signal will be output from the POWER AMP CH 1 jacks and from the POWER AMP CH 2 jacks.

### INPUT/ OUTPUT JACKS

### .MON/MAIN

With this setting, the MONITOR and MAIN section can be used independently.

The MONITOR bus signal will be output from the POWER AMP CH 2 jacks, and the MAIN bus signal will be output from the POWER AMP CH 1 jacks.

### 31. MAIN MASTER

This adjusts the final level of the MAIN bus that is sent to the speakers connected to the POWER AMP CH 1, CH 2.

### 32. POWER LED

This red LED will illuminate when the unit is switched on.

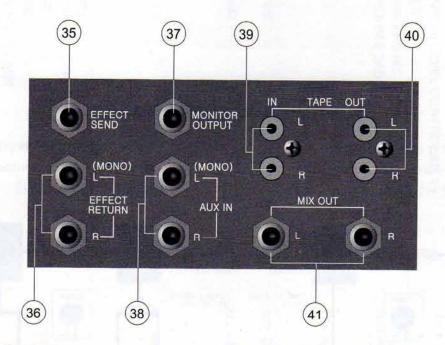
### 33. PHANTOM POWER LED

This LED will illuminate when the PHANTOM POWER switch 34 is depressed to on.

### 34. PHANTOM POWER ON/OFF SWITCH

When this switch is depressed +48V of phantom power will be supplied to all channels.

NOTE: DO NOT TURN ON PHANTOM POWER IF THERE ARE NO MICROPHONES PLUGGED IN AS THIS MAY DAMAGE THE SPEAKERS!



### 35. EFFECT SEND JACK

This jack socket provides a mono mixed effects signal from the input channels to an external effects unit.

The signal adjusted by the EFX 3 control of each channel will be sent to the EFFECT bus, its level adjusted by the EFFECT SEND 26 control, and output from this jack.

### 36. EFFECT RETURN JACKS

These jack sockets will accept the return signal from on external effects unit.

The return signal is adjusted by the EFFECT RETURN 24 control.

### 37. MONITOR OUT jack

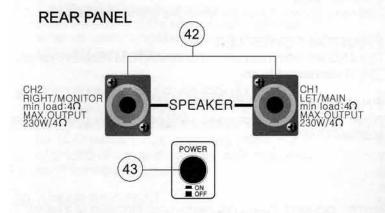
This jack socket provides a normal line level signal for stage monitoring purpose, its level adjusted by the MONITOR OUT 29 control.

### 38. AUX IN jacks

These jack will accept the signal from an external device with monaural output such as a CD player. Its level is adjusted by the AUX IN 27 control.

### 39. TAPE IN L,R jacks

These jack sockets will accept the signal from an external device with a stereo output such as a cassette recorder. Its level is adjusted by the TAPE IN 28 control.



### 40. TAPE OUT L,R jacks

These jack sockets will accept an external cassette tape recorder for recording purpose.

### 41. MIX OUT jacks

Use these jacks to connect to on extermall power amplifier if extra output power for a larger, P.A. system is required.

If you wish to use the two channels independently, but only connect a speaker to the CH 1 or CH 2, use a 4~5 ohms speaker. When using the CH 1 and CH 2 jacks simultaneously, connect 8~16 ohms speakers.

### 42. SPEAKER OUTPUT jacks (POWER AMP CH 1, POWER AMP CH 2.)

Speakers can be connected to these jacks. This powered mixer contains a two-channel power amp, two channels can be used independently(maximum power output 200W+200W).

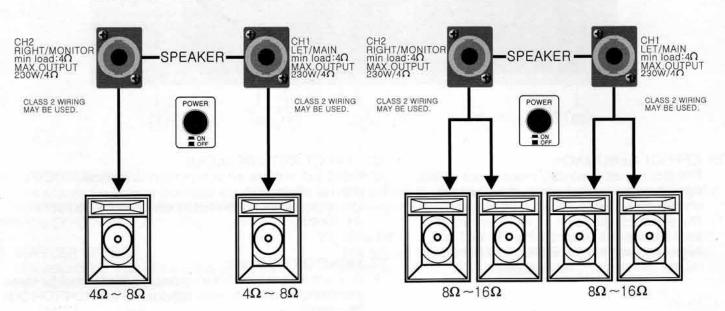
If the two channels are used independently, two speakers can be connected to the POWER AMP CH 1 jacks and two more to the POWER AMP CH 2 jacks, for a total of four speakers.

### 43. POWER ON/OFF SWITCH

This switch turns the mains power to the unit on or off.

### STEREO MODE CONNECTION EXAMPLE

Connectig one speaker to either the speaker output jack of CH1 and CH2 Connectig two speakers to either the speaker output jack of CH1 and CH2



### SPECIFICATIONS

## MIXER & MASTER SECTION

BUANTON BOWER	HUM & NOISE						THD				STREET, STREET	KEUTONUE	FREQUENCY		MASTER EQUALIZATION	TONE CONTROL		CHANNEL	OUT PUT LEVEL					INPUT SENSITIVITY		INPUT SENSITIVITY	TEST ITEM			
N)	REC OUT	EFX SEND	MON OUT	MIX OUT	REC OUT	EFX SEND	MON OUT	MIX OUT	REC OUT	EFX SEND	MON OUT	MIX OUT	REC OUT	EFX SEND	TUO NOM	MIX OUT		LOW	MID	HIGH	REC OUT	EFX SEND	MONITOR	MIX OUT	TAPE IN	AUX IN	EFX RTN	LINE	MIC	TEST SEC
CH1-8 MIC INDI IT	ALL OUT IMPEDANCE IS 1 KOHM LOAD	MASTER ALL EQ VR CENTER	CHANNEL TONE CONTROL VR CENTER	CHANNEL & MASTER LEVEL VR ALL MIN	MASTER ALL EQ VR CENTER	MASTER ALL LEVEL VR MAX	CHANNEL TONE CONTROL VR CENTER	CHANNEL ALL LEVEL VR MAX				20HZ-20KHZ AT 1KOHM LOAD				20HZ-20KHZ AT 1KOHM LOAD	125, 250, 500, 1K, 2K, 4K, 8KHZ EQ SLIDE VR BOOST/CUT	80HZ	2.5KHZ	12KHZ			ALL OUT IMPEDANCE IS 1 KOHM LOAD	OUTPUT AT BEFORE CLIPPING POINT	MASTER EQ VR ALL CENTER	MASTER AUX, EFX RTN, TAPE IN LEVEL CONTROL MAX	MASTER LEVEL CONTROL MAX	CHANNEL PADS SWITCH AT-30 dB POINT	CHANNEL ALL EQ CENTER, MON/EFX LEVEL CONTROL MAX	TEST CONDITION
			- 0.12.000									ALL +4dB				ALL +4dB	MIX OUT			MIX OUT			OUTPUT	ALL MAX		LUAD	AL 1 KUHM	+4dB	MIX OUT:	OUTPUT
DC +48VOLT	-90dB	-90dB	-85dB	-75dB	-55dB	-55dB	-53dB	-45dB	0.06%	0.06%	0.06%	0.06%	0dB	0dB	0dB	0dB	±12dB	±15dB	±12dB	±15dB	+20dBu	+20dBu	+20dBu	+20dBu	-10dB	-10dB	-10dB	-30dB	-55dB	SPEC
± 2V	± 3dB	± 3dB	± 3dB	± 3dB	± 3dB	± 3dB	± 3dB	± 3dB	0.02%	0.02%	0.01%	0.01%	± 2dB	± 2dB	± 2dB	± 2dB	± 2dB	± 2dB	T ZdB	± 2dB	± 2dB	± 2dB	± 2dB	± 2dB	± 2dB	± 2dB	± 2dB	± 2dB	±2dB	LIMI

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### POWER AMP SECTION

			HUM & NOISE		SLEW RATE		DAMPING FACROR	DANDWIDIH	POWER		T.H.D		RESPONSE					OUT PUT LEVEL		INFO SENSITIVITY	TEST ITEM
AMP - 2	AMP - 1	AMP - 2	AMP - 1	AMP - 2	AMP - 1	AMP - 2	AMP - 1	AMP - 2	AMP - 1	AMP - 2	AMP - 1	AMP - 2	AMP - 1	BRIDGE	AMP - 2	AMP - 1	AMP - 2	AMP - 1	AMP - 2	AMP - 1	TEST SEC
ALL LEVEL VR MAX, ALL EQ FLAT	CHANNEL & MASTER ASS'Y	INPUT LINE SHORTED	POWER AMP ONLY	STATE OF THE STATE	I KHZ INPUT	FREQUENCY: 100HZ	OUTPUT: 200 WATTS 4 OHM LOAD	FREQUENCY: 20HZ - 20KHZ	OUTPUT: 200 WATTS 4 OHM LOAD		AMP OUTPUT :200 WATTS 4 OHM LOAD	20HZ - 20KHZ	OUTPUT: 1 WATTS AT 4 OHM LOAD	IMP: 8 OHM LOAD BEFORE CLIPPING	THD: 0.5%	IMP: 8 OHM LOAD BEFORE CLIPPING	THD: 0.5%	IMP: 4 OHM LOAD BEFORE CLIPPING		AMP OUTPUT : 200WATTS AT 4 OHM LOAD	TEST CONDITION
JACK	SPEAKER	JACK	SPEAKER	JACK	SPEAKER	JACK	SPEAKER	JACK	SPEAKER	JACK	SPEAKER	JACK	SPEAKER	BRD SPK	JACK	SPEAKER	JACK	SPEAKER	JACK	SPEAKER	OUT PUT
-45dB	-45dB	-85dB	-85dB	25V/USEC	25V/USEC	110	110	0dB/-3dB	0dB/-3dB	0.50%	0.50%	0dB/-2dB	0dB/-2dB	400 WATTS	132 WATTS	132 WATTS	200 WATTS	200 WATTS	+4dBM	+4dBM	SPEC
			-	í				±1dB	±1dB	0.10%	0.10%	±1dB	±1dB					j	±2dB	±2dB	LIMIT

NOTE: For improvement purpose, specifications and deigns are subject to change without notice.

8

# MULTI EFFECTS PROGRAM CHART

	5.0.50	13 7058	(DECAY & DELAY TIME)	SHORT LONG					3086		2 7 7 16	3	4 ( ) 13	12		3	BANK(PROGRAM)	
16	15	74	13	12		10	3	0	0	1 0	מ	O	4	٥	, ,	3	_	BANK NO.
DELAY 8-LONG	DELAY 7-LONG	DELAY 6-LONG	DELAY 5-LONG	DELAY 4-SHORT	DELAY 3-SHORT	DELAY 2-SHORT	DELAY 1-SHORT	ZEVEZE-STRING	ZEVEXB-DAXK	אריים אינים	BEVERB BIOLIT	REVERB-GAREGE	REVERB-CHAMBER	ZUALZB-CLOB	ZEVEZO-AZENA	DEVEDB ADDIA	REVERB-CONCERT	EFFECT(CHARACTER)
1/8@60 BPM, 1/4@120 BPM	1/8@75 BPM	1/8@100 BPM	1/16@75 BPM, 1/8@150 BPM	SHORT CUT	SHORT CUT	SHORT CUT	SHORT CUT	DARK, SLOW ATTACK	LOW PASS AND HIGH DAMPING	LARGE, BRIGHT, AMBIENT PLATE	-IGHT ROOM	TOUT DOOL	DARK, SMALL STUDIO ROOM	LARGE CLUB WITH HIGH DAMPING	BIG ARENA, DOMED STADIUM WITH HIGH DAMPING	SHOE BUX LYPE CONCERT HALL	SUOT DOV HOST OF THE STATE OF T	DESCRIPTION

For service, please contact the TALMUS distributor in your country through the dealer.

DO NOT ATTEMPT TO SERVICE THIS UNIT YOURSELF AS IT CAN BE DANGEROUS AND ALSO WILL VOID THE WARRANTY.



