

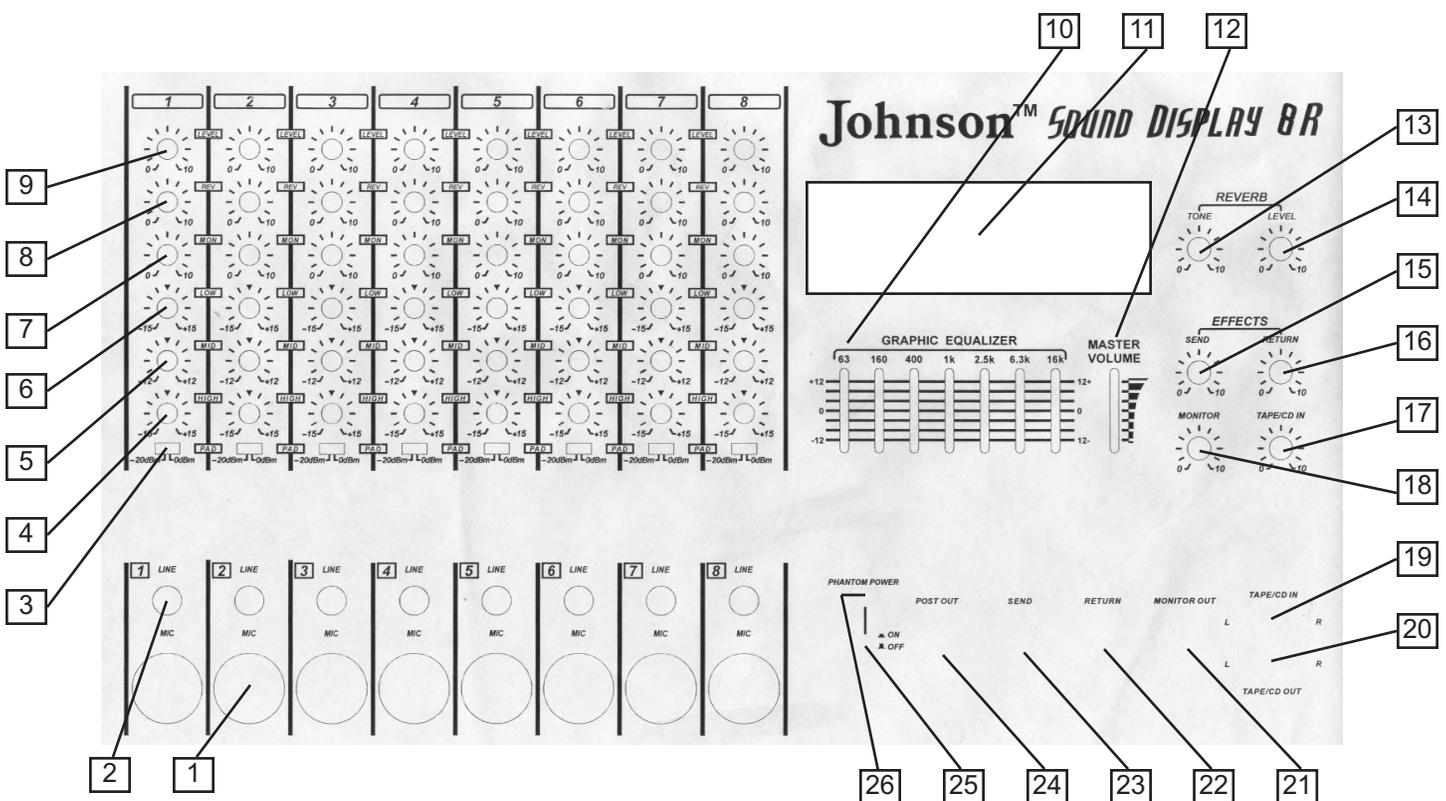
# Johnson™ JPM-8R/8D POWERED MIXER DESCRIPTION OF FUNCTIONS

*Thank you for your purchase of the new Johnson JPM-8R/8D powered mixer. We hope that this unit brings you years of good service and entertainment value.*

## **Before Starting:**

Please check the following before powering up your new unit.

- 1) Do you have the correct power cable for your country? This must be (120VAC or 240VAC).
- 2) Connect two 8 ohm speaker cabinets with unshielded speaker cable only.
- 3) Connect instruments/hi-z microphones to the 1/4" inputs and microphones/instruments requiring 3-pin connection to the balanced line in.  
Start with the PAD at 0dB and adjust for the sensitivity gain of each microphone and instrument used.
- 4) Channel level and Master level controls should be off before turning on your unit.
- 5) Put all channel EQ controls and Graphic EQ sliders to their mid-point (normal or "0" position).
- 6) Find the power switch located in the rear of the unit and turn it on.
- 7) Bring Master level up a little to start followed by each individual Channel volume. Adjust as necessary to achieve a clean and undistorted sound.
- 8) Adjust Channel EQ and Graphic EQ as necessary for desired tonal quality.
- 9) Add in internal and external effects when ready.
- 10) Follow the rest of this manual for all functions and specifications.
- 11) Have fun!



- 1) **MIC** - Microphone Line In. Balanced XLR (3-Pin) plug.
- 2) **LINE** - Hi-Z Line and instrument level in. Unbalanced 1/4" input plug. Use for high impedance microphone or with electric guitar, bass, keyboard, tape deck, CD, etc. These inputs can be used in combination with the XLR inputs.
- 3) **PAD** - Decreases the input sensitivity of the channel by 20dB, when activated. Prevents amplifier overload from instruments and effect units with added gain.
- 4) **HIGH** - Effects the treble tonal range. From the mid-point of the control, turn right to increase treble frequencies by 15dB. Reverse this procedure to decrease treble by 15dB.
- 5) **MID** - Effects the middle tonal range. From the mid-point (normal) of the control, turn right to increase middle frequencies by 12dB. Reverse this procedure to decrease middle by 12dB.
- 6) **LOW** - Effects the bass tonal range. From the mid-point (normal) of the control, turn right to increase bass frequencies by 15dB. Reverse this procedure to decrease bass by 15dB.
- 7) **MON** - Monitor. Use for adjusting the level of the channel going to the monitor mix. The monitor mix will not be effected by channel EQ or level adjustments.
- 8) **REV** - Use for adjusting the amount of reverberant or ambient effect from the JPM-8R's reverb source. Note: On the JPM-8D, this control will adjust the amount of digital delay effect from the JPM-8D's delay source.
- 9) **LEVEL** - Use to adjust channel volume.

- 10) **GRAPHIC EQUALIZER** - Use to adjust 7 individual bands of EQ or tone. Sliders increase or decrease specific frequencies by  $\pm 12$ dB. Frequency range is 63Hz - 16kHz. From their center or (0) position, raise the slider to boost the EQ and lower the slider to cut the EQ for each frequency. Try a V-shaped curve for more bass and highs. Be careful not to boost the frequencies too much as it adds to overall volume, and can cause distortion in the sound. Cutting a specific frequency can also reduce feedback in the system.
- 11) **NEON LIGHT INDICATOR** - The amount of boost or cut for each band of EQ from the Graphic Equalizer is shown by LED readouts on this panel.
- 12) **MASTER VOLUME CONTROL** - Use to control overall volume of mixer.  
Note: Controls the volume of the TAPE/CD OUT RCA jack.  
Tip: For a quieter system, keep this level low and raise the individual channel volumes to the desired volume.
- 13) **TONE** - Shapes tonal range of the reverb signal. From mid-point (center position) turning right will increase mid to treble response. Turning left from the mid-point will roll off mid to treble response.  
Note: On the JPM-8D, this section utilizes separate Depth and Length adjustments for the Digital Delay function.
- 14) **LEVEL** - Controls overall amount of reverb saturation.  
Note: On JPM-8D, this control will adjust the overall amount of digital delay.
- 15) **EFFECT SEND** - Control for adjusting the level of the mixer signal to an outboard effects unit.
- 16) **EFFECT RETURN** - Control for adjusting the effect level coming back into the mixer from an outboard effects unit.
- 17) **TAPE/CD IN** - Control for adjusting the volume level of external tape deck, CD, minidisk, computer, keyboard, or other audio unit.
- 18) **MONITOR** - Control for adjusting the overall level of the monitor mix sent to an external monitor amp. This control knob receives the input from the channel monitor level controls.
- 19) **TAPE/CD IN** - RCA input for connection to a tape deck, CD, Minidisk, computer, keyboard, or other audio unit.
- 20) **TAPE/CD OUT** - RCA output for connection to a tape deck, CD, Minidisk, computer, keyboard, or other audio unit. Main mix can be recorded with these jacks.
- 21) **MONITOR OUT** - 1/4" line level output jack for connection to external power/monitor amp operating external speakers (monitors).
- 22) **EFFECT RETURN** - 1/4" input jack for connection to the output of an outboard effects unit.
- 23) **EFFECT SEND** - 1/4" output jack for connection to the input of an outboard effects unit.
- 24) **POST OUT** - 1/4" output jack for connection to an external power amp. This is a line level post graphic EQ output of the main mix.
- 25) **PHANTOM POWER** - +48v DC current available to every channel (XLR input Jack only), when activated. Use in conjunction with Condenser microphones that need low current voltage for operation.  
Note: If no microphones are plugged in, do not turn on Phantom Power as this may damage the speakers. Avoid pops in the system by lowering the Master Volume control, before activating this function. Wait approximately 6 seconds for phantom power to disengage before making changes on an XLR input. LED will stay on briefly until phantom power current is discontinued.
- 26) **POWER LED** - Light indicates if phantom power is on or off.

## SPECIFICATIONS:

<b>Power:</b>	300Watts @ 4 ohms 180Watts @ 8 ohms
<b>Frequency Response:</b>	$\pm 2$ dB @ 20-20kHz
<b>Dynamic Range:</b>	90dB
<b>Total Harmonic Distortion:</b>	-0.2% THD
<b>7 Band Graphic Equalizer:</b>	(63, 160, 400, 1k, 6.3k, 16k) Hz $\pm 12$ dB
<b>Channel EQ:</b>	Low ( $\pm 15$ dB @ 80Hz), Mid ( $\pm 12$ dB @ 2.5kHz), High ( $\pm 15$ dB @ 12kHz)
<b>Channel Effects:</b>	Reverb (JPM-8R), Digital Delay (JPM-8D)
<b>Input Jack:</b>	1/4" Digital Delay Footswitch (On/Off) JPM-8D (Master Section)
<b>Balanced XLR Inputs:</b>	8
<b>Unbalanced 1/4" TRS Inputs:</b>	8
<b>RCA Inputs/Outputs:</b>	2 (Master Section)
<b>Speaker Outputs:</b>	(2) 1/4" output jacks (Back Panel). A total of two 8 ohm speakers can be connected, one on each jack. Note: More than two speakers, or using 4 ohm speakers will put an overload into the mixer shutting it down and possibly damaging the unit.
<b>Chassis:</b>	Heavy Gauge Metal
<b>Dimensions:</b>	18 1/2" x 10 3/4" x 11 3/4" (47cm x 27.3cm x 29.8cm) W x H x D
<b>Weight:</b>	35.2lbs (16kgs)