VocoPro®
PROFESSIONAL VOCAL SYSTEMS ™
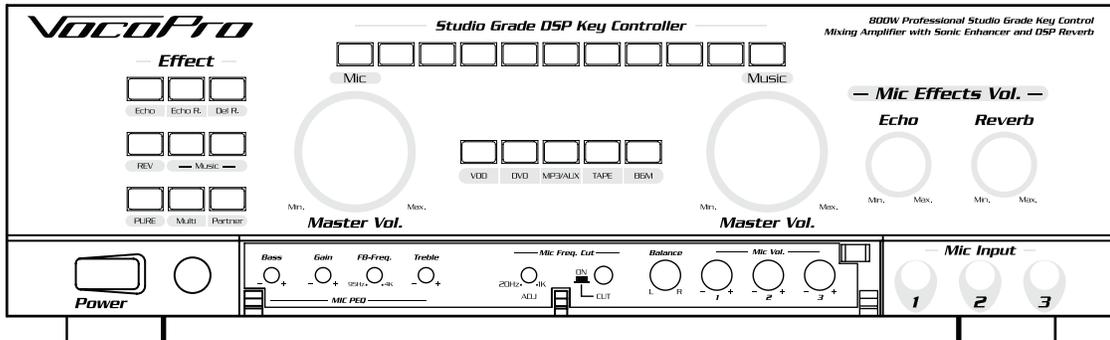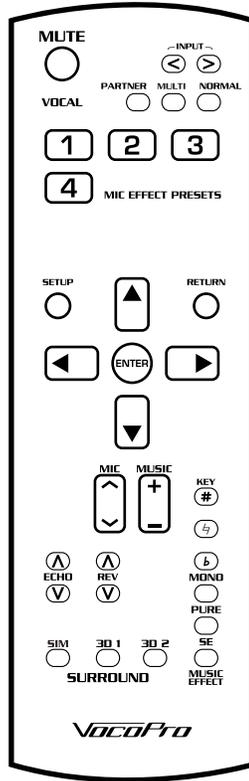
DAX-9900RV

o w n e r ' s   m a n u a l

Table of Contents

Welcome

And thank you for purchasing the **DAX-9900RV** from VocoPro, your ultimate choice in Karaoke entertainment! With years of experience in the music entertainment business, VocoPro is a leading manufacturer of Karaoke equipment, and has been providing patrons of bars, churches, schools, clubs and individual consumers the opportunity to sound like a star with full-scale club models, in-home systems and mobile units. All our products offer solid performance and sound reliability, and to reinforce our commitment to customer satisfaction, we have customer service and technical support professionals ready to assist you with your needs. We have provided some contact information for you below.

VocoPro
1728 Curtiss Court
La Verne, CA 91750
Toll Free: 800-678-5348
TEL: 909-593-8893
FAX: 909-593-8890

VocoPro Company Email Directory

Customer Service & General Information
info@vocopro.com

Tech Support
techsupport@vocopro.com

Remember Our Website
Be sure to visit the VocoPro website **www.vocopro.com** for the latest information on new products, packages and promos. And while you're there don't forget to check out our Club VocoPro for Karaoke news and events, chat rooms, club directories and even a KJ Service directory!

We look forward to hearing you sound like a PRO, with VocoPro, the singer's ultimate choice.

FOR YOUR RECORDS

Please record the model number and serial number below, for easy reference, in case of loss or theft. These numbers are located on the rear panel of the unit. Space is also provided for other relevant information

Model Number

Serial Number

Date of Purchase

Place of Purchase

Listening for a Lifetime

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. VocoPro and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to a higher volume of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:
• Start your volume control at a low setting.
• Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:
• Set the dial and leave it there.
• Pay attention to the different levels in various recordings.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Some common decibel ranges:

Level	Example
30	Quiet library, Soft whispers
40	Living room, Refrigerator, Bedroom away from traffic
50	Light traffic, Normal Conversation
60	Air Conditioner at 20 ft., Sewing machine
70	Vacuum cleaner, Hair dryer, Noisy Restaurant
80	Average city traffic, Garbage disposals, Alarm clock at 2 ft.

The following noises can be dangerous under constant exposure:

Level	Example
90	Subway, Motorcycle, Truck traffic, Lawn Mower
100	Garbage truck, Chainsaw, Pneumatics drill
120	Rock band concert in front of speakers
140	Gunshot blast, Jet plane
180	Rocket launching pad

-Information courtesy of the Deafness Research Foundation

Safety Information

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. **Attachments** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.

6. **Water and Moisture** - Do not use this unit near water. For example, near a bathtub or in a wet basement and the like.

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

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

8. **Ventilation** - The appliance should be situated so its location does 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 slots.

9. **Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

10. **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** - Precautions 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** - Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

14. **Power lines** - An outdoor antenna should be located away from power lines.

15. **Nonuse Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

16. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

17. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:

A. The power supply cord or plug has been damaged; or
B. Objects have fallen 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.

18. **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.

Note:
To CATV system installer's (U.S.A.): This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected as close to the point of cable entry as practical.

FCC Information

1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!: This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Vocopro may void your authority, granted by the FCC, to use this product.

2. IMPORTANT: When connecting this product to accessories and/or another product use only high quality shielded cables. Cable(s) supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the U.S.A.

3. NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurances that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the owner's manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "Off" and "On", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Use power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter(s).

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300-ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact your local retailer authorized to distribute Vocopro products. If you can not locate the appropriate retailer, please contact Vocopro, 1728 Curtiss Court, La Verne, CA 91750.

CAUTION
The apparatus is not disconnected from the AC power source so long as it is connected to the wall outlet, even if the apparatus itself is turned off. To fully ensure that the apparatus is indeed fully void of residual power, leave unit disconnected from the AC outlet for at least fifteen seconds.

CALIFORNIA PROP 65 WARNING
WARNING: This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. (California law requires this warning to be given to customers in the State of California.)
For more information: www.vocopro.com/prop65

CAUTION:
READ THIS BEFORE OPERATING YOUR UNIT

1. To ensure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.

2. Install your unit in a cool, dry, clean place - away from windows, heat sources, and too much vibration, dust, moisture or cold. Avoid sources of hum (transformers, v motors). To prevent fire or electrical shock, do not expose to rain and water.

3. Do not operate the unit upside-down.

4. Never open the cabinet. If a foreign object drops into the set, contact your dealer.

5. Place the unit in a location with adequate air circulation. Do not interfere with its proper ventilation; this will cause the internal temperature to rise and may result in a failure.

6. Do not use force on switches, knobs or cords. When moving the unit, first turn the unit off. Then gently disconnect the power plug and the cords connecting to other equipment. Never pull the cord itself.

7. Do not attempt to clean the unit with chemical solvents: this might damage the finish. Use a clean, dry cloth.

8. Be sure to read the "Troubleshooting" section on common operating errors before concluding that your unit is faulty.

9. This unit consumes a fair amount of power even when the power switch is turned off. We recommend that you unplug the power cord from the wall outlet if the unit is not going to be used for a long time. This will save electricity and help prevent fire hazards. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.

10. To prevent lightning damage, pull out the power cord and remove the antenna cable during an electrical storm.

11. The general digital signals may interfere with other equipment such as tuners or receivers. Move the system farther away from such equipment if interference is observed.

NOTE:
Please check the copyright laws in your country before recording from records, compact discs, radio, etc. Recording of copyrighted material may infringe copyright laws.

Voltage Selector (General Model Only)
Be sure to position the voltage selector to match the voltage of your local power lines before installing the unit.

110V
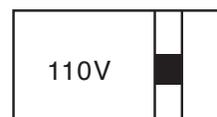
Getting Connected

The DAX-9900RV is capable of supporting connections to many types of devices to accomplish any sort of audio set up. Below are a few common connections:

CONNECTING:

A/V Source - The DAX-9900RV can support up to 4 AV sources when using these jacks: VOD, DVD, AUX, BGM. Most devices that use RCA output jacks would be compatible.

Music Source - There are two music only inputs: TAPE and MP3/AUX.

Rear Panel

CD Player

Karaoke Player

DVD Disc Player
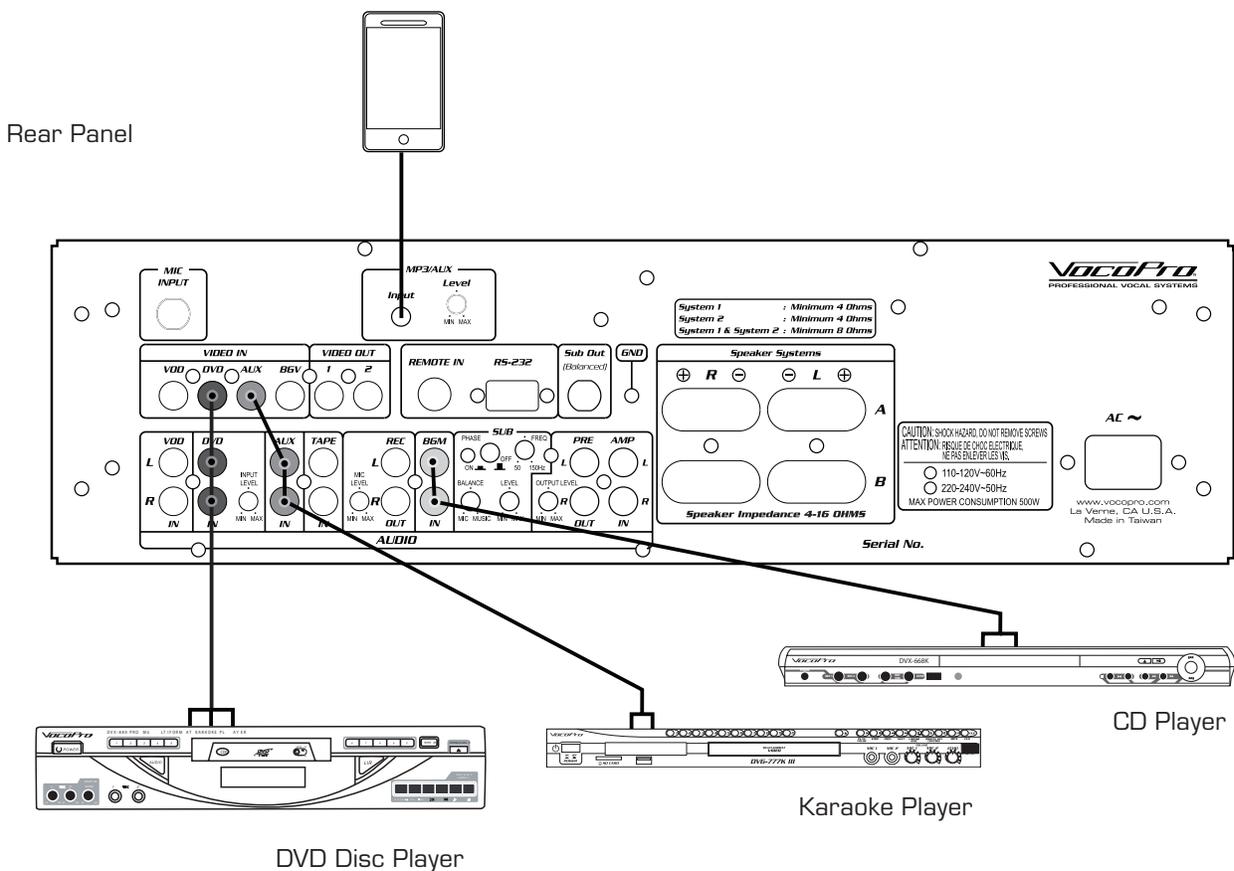
Note:
• *Simultaneous use of the 1/8" MP3/AUX jack and the RCA AUX will result in overlapping audio.*
• *All connections not required, but up to 3 possible sources can be used.*
• *Products shown as illustration only.*

CONNECTING:

Subwoofer - A Self-powered subwoofer can be used when it is connected to the Sub Out jack. Use the controls labeled SUB on the back panel to alter the audible characteristics of the Bass:

- The crossover frequency knob will dictate how "low" the bass will sound. The closer it is to 50Hz, the bass will be "rumbly' and will be felt more than it will be heard. When set closer to 150Hz, the bass has more of a"punchy" sound to it.

- The Phase switch will correct the audio of the sub to better match the speakers. If the speakers and sub were out of Phase, the audio will sound muted compared to when the are in Phase.

-The Balance knob will change the ratio of Music of Mic signals being routed to the Sub.

- The Level will determine the volume of the connected subwoofer.

Rear Panel
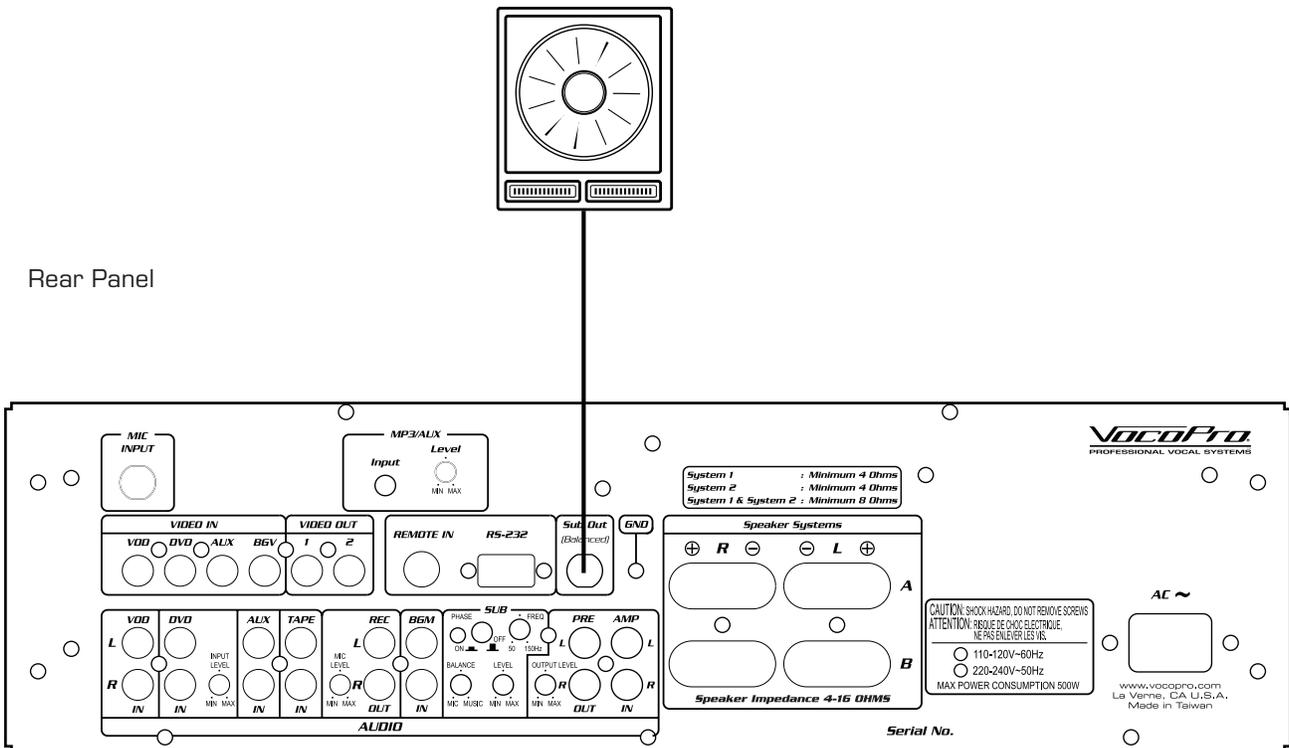
Getting Connected

CONNECTING:

Recording Devices - Most recording devices that use RCA input jacks can be connected to either the REC Out or Pre Out.

- The REC Out has a constant music output volume; it is not affected by the Music Master Volume. The microphone audio can be selectively applied to the REC Out signal with the Mic Level located near the REC Out jacks.

- The Pre Out is directly affected by the Music Master Volume. The higher the Music Master Volume, the louder the signal from the Pre Out jacks. The Output Level control located near the Pre Out is used to adjust the output level without adjusting the Music Master Volume, especially if the main speakers need to be at full volume but the recording does not.

Rear Panel

Either or

External Recorder #1

External Recorder #2
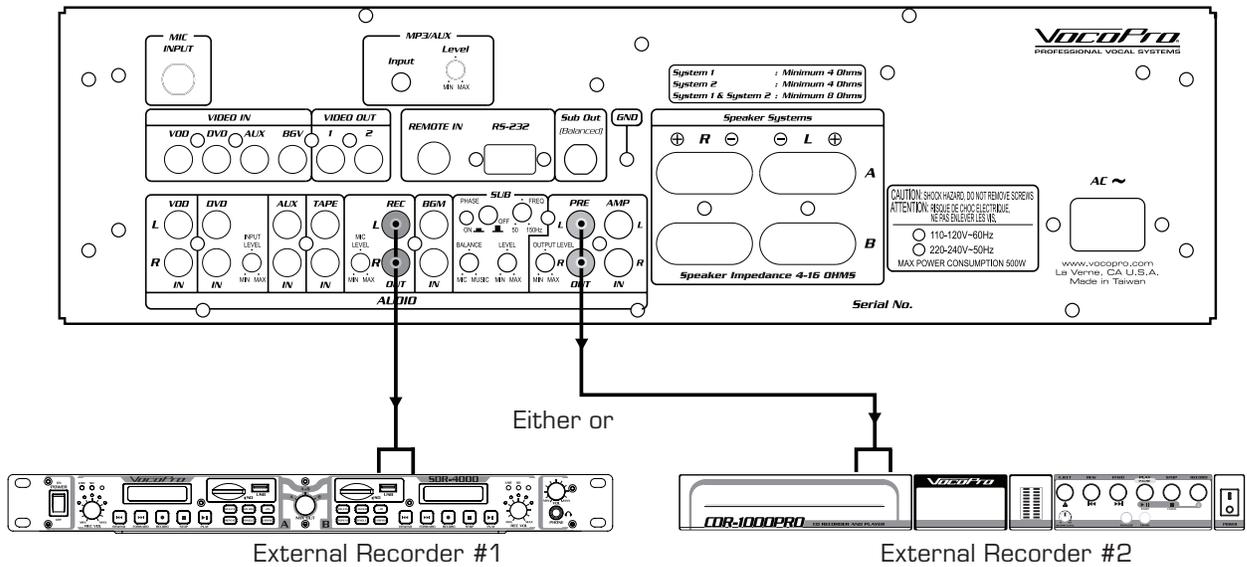
Note:
• The Power Amp In setting, in the System Set Up Menu, must be set to Internal.
• External Recorders not included
• Products shown as illustration only.

Getting Connected

CONNECTING AN EFFECTS PROCESSOR:

An effects processor can be used with the Pre Out and Amp In jacks.
In order to use an External Effects Processor, the Power Amp In setting in the System Set Up Menu must be set to External. Refer to System Set Up menu for details.

Rear Panel
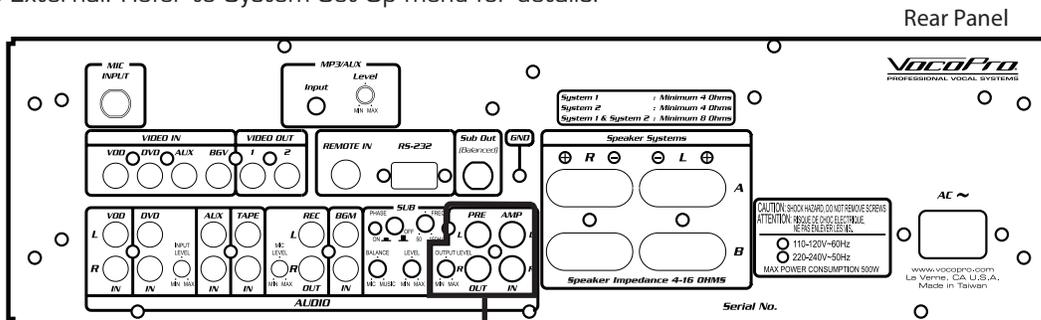
When Set EXT:

The on-board microphone effects are disabled. Microphone audio is routed out through the Pre-Out into the external effects processor to be altered. Once altered, it is sent back into the DAX-9900RV through the Amp In jacks.

    1. Amp In jack will function like an Effect Loop In.
    2. Pre-Out jack will funtion like an Effect Loop Out.
    3. All microphone audio will be looped through an external effects processor and back in through the Amp In jacks.
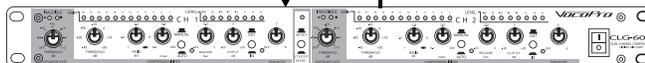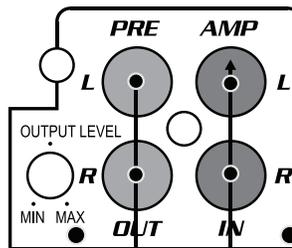
External Effects Processor (not included)

When Set INT:

The Amp In jacks are disabled. The Pre-Out jacks send an unamplified line level signal to be used with an additional amplifier or recorder.

    1. Amp In jack will be disabled.
    2. Pre-Out jack will function like a standard RCA audi output jack.
    3. All microphone audio will be routed through the internal effects processor.

Disabled
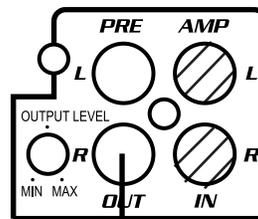
Powered Speaker

not included

Getting Connected

The Speaker Terminals are located on the rear panel. There are two sets of speaker outputs, A & B. If using a single speaker output, either A or B, the lowest rated speakers permitted is 4Ω. If using both speaker outputs, A and B, the lowest rated speakers permitted is 8Ω. Be sure to connect the polarities (+,-) to the appropriate terminal.

Caution
• Before connecting the speakers, make sure that the DAX-9900RV is disconnected from the power source.
• Do not let the bare speaker wires touch each other or another metal part of this unit. This could damage the DAX-9900RV and/or the speakers.

Rear Panel
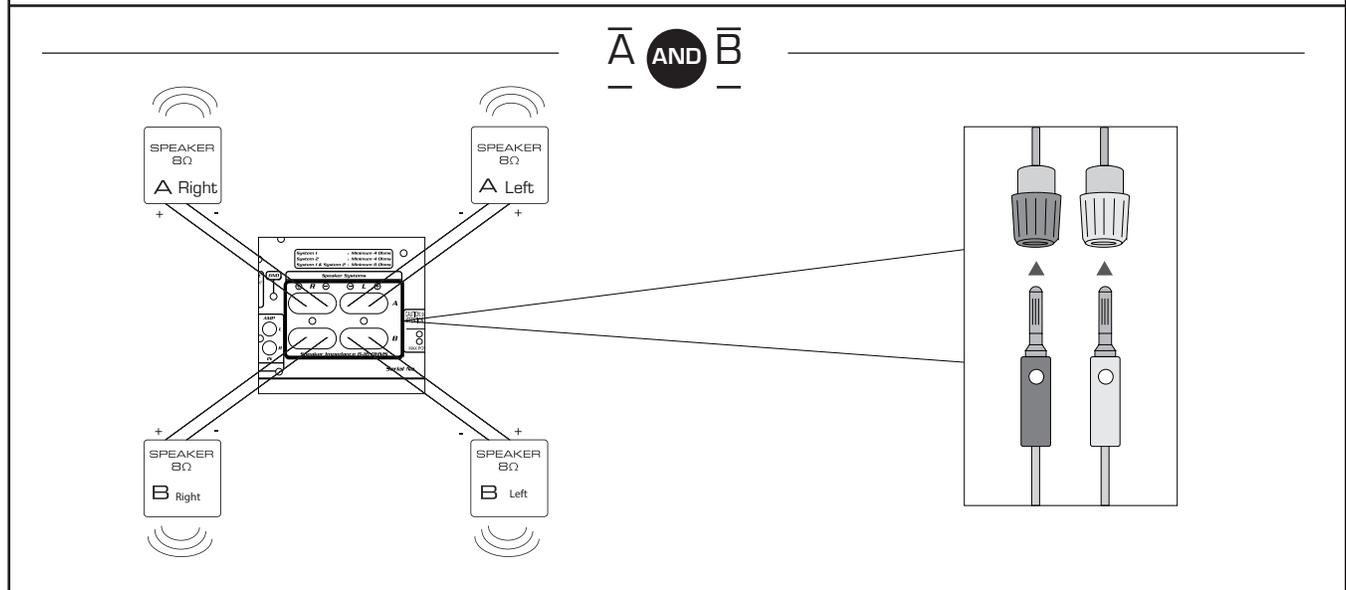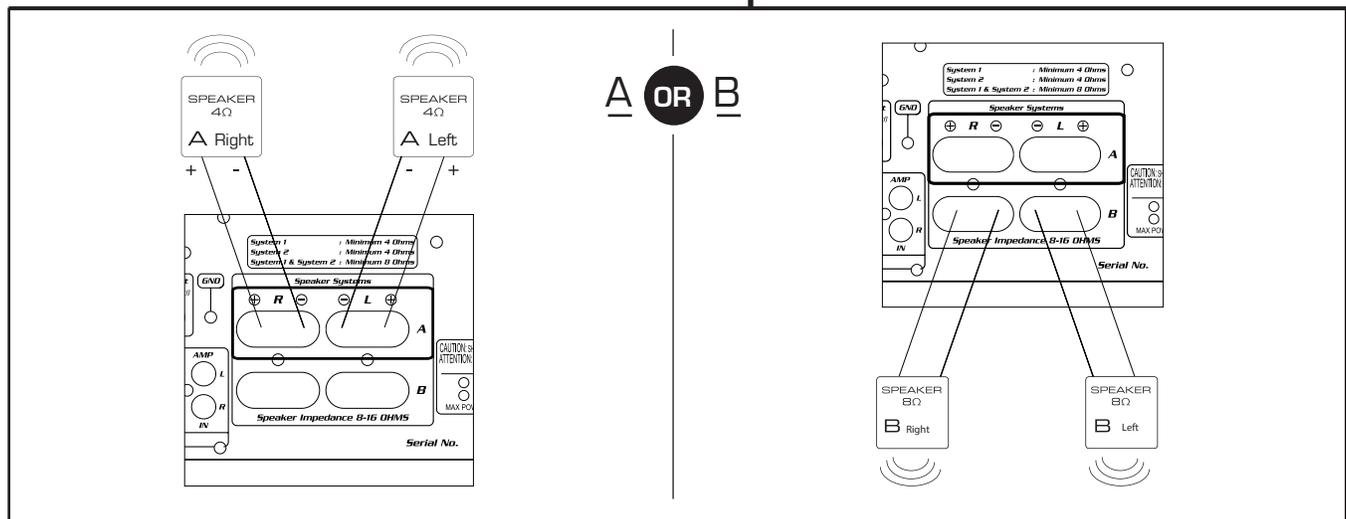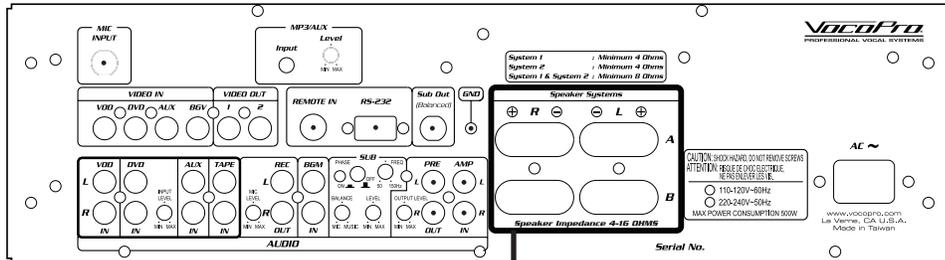
Getting Connected

PREPARING THE SPEAKER CABLE

You can either used an exposed speaker wire or Banana Plug speaker cable.

EXPOSED SPEAKER WIRE

1. Remove approximately 3/8" (10mm) of insulation

10mm
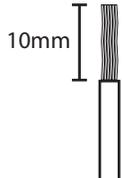
2. Twist the exposed strands together to prevent short circuits
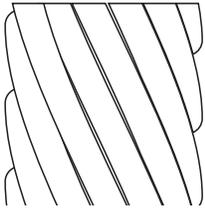
3. Loosen the knob on the speaker terminal
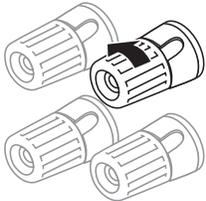
4. Insert the bare wire
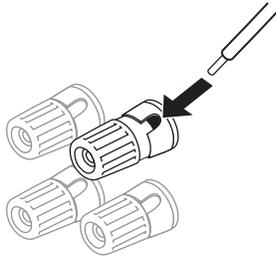
5. Tighten the knob until the wire is secure.
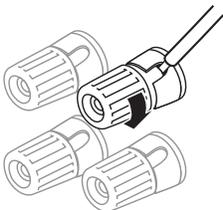
BANANA CONNECTOR

Insert banana plug into speaker terminal.

+   -

GRND
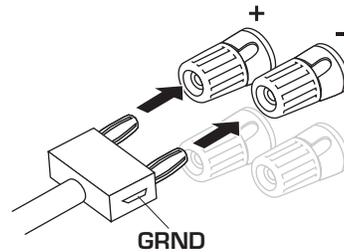
Getting Connected

POWERED SPEAKERS: A set of powered speakers can be connected to either the Pre-Out or the REC out jacks. The volume control will change depending on which output being used.

- The REC Out has a constant music output volume; it is not affected by the Music Master Volume. The microphone audio can be selectively applied to the REC Out signal with the Mic Level located near the REC Out jacks. This can be useful when using the powered speakers as music monitors or for additional speaker coverage for a large room.

- The Pre Out is directly affected by the Music Master Volume. The higher the Music Master Volume, the louder the signal from the Pre Out jacks. Use these for situations where Music Master must have absolute control over the audio playback. The Output Level control located near the Pre Out is used to adjust the output level without adjusting the Music Master Volume, especially if the main speakers need to be at full volume but powered speakers do not.
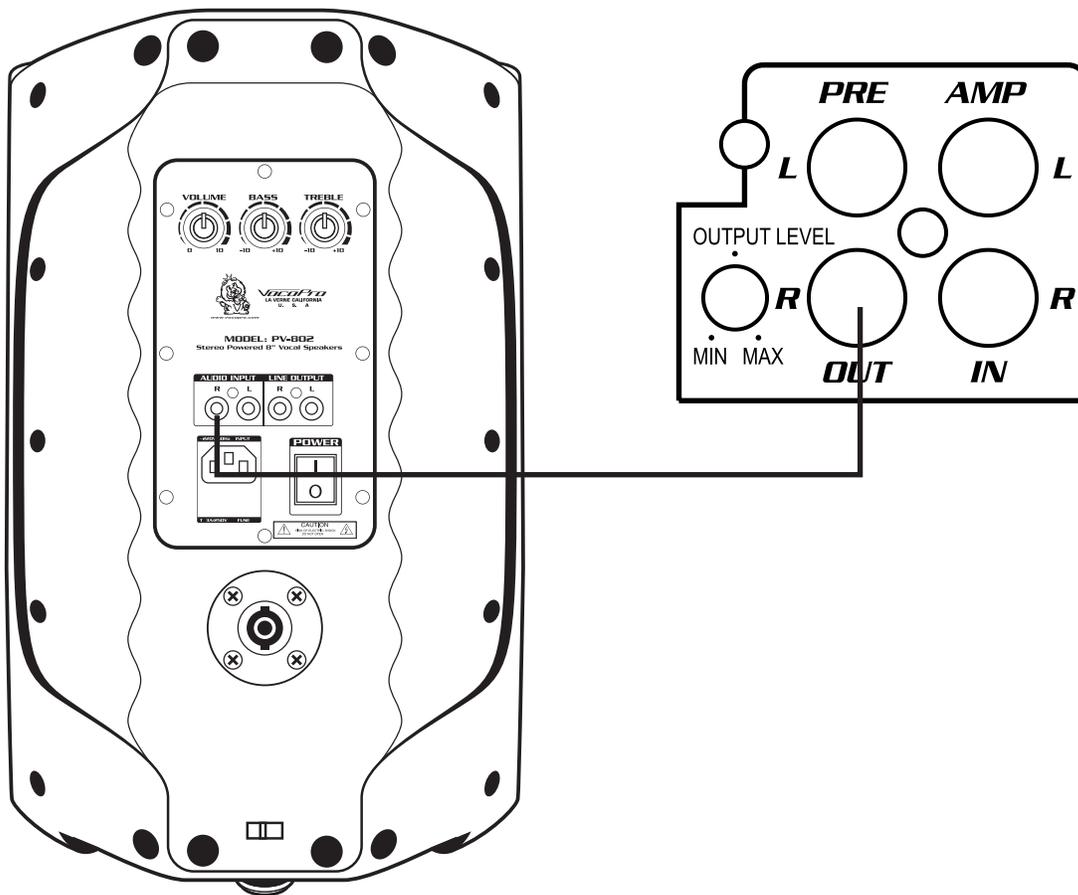
Operations

USING THE MICROPHONE EFFECT PRESETS:

The microphone effect presets are available to add an extra layer to your performance and are accessed from the front of the DAX-9900RV. The four microphone presets levels can be adjusted in the Microphone Effect Set Up menu.

On the remote control and in the Microphone Effect Set Up menu, the four presets are numbered:

- 1 – Echo
- 2 – Reverb
- 3 – Echo + Reverb
- 4 – Delay + Reverb
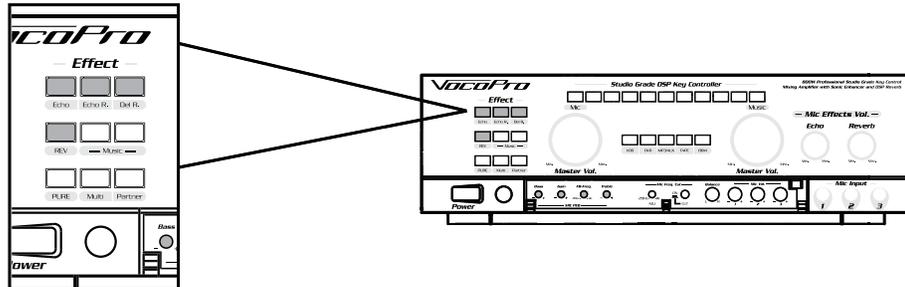

USING THE MUSIC EFFECT PRESETS:

The DAX-9900RV has music effect presets to better perform the songs you choose. The Music Effect Presets can altered in the Music Set Up Menu. The presets are:
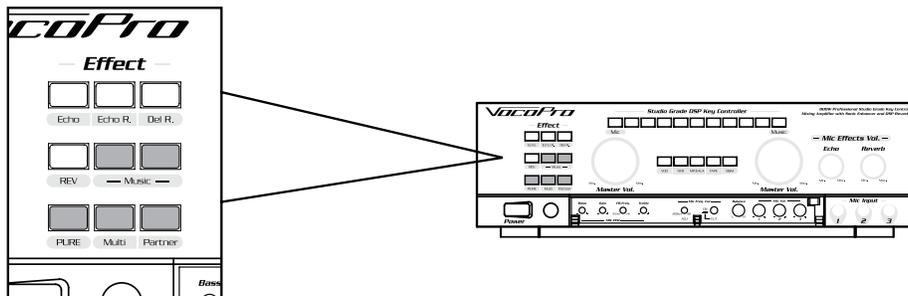
- Pure Direct – This mode is for high fidelity music audio with no sound enhancements. When selected, the music audio will bypass any settings that may be on. Access to the Set Up Menu will be disabled as well. Use this mode for listening to music or to perform a track as it was originally released.
- Multi – The main vocal track will be removed. This mode will only work on Multiplex (MPX) format karaoke discs.
- Partner - This mode will dip the volume of the main vocal track when the mic is in use. The main vocal track will automatically rise back to audible levels once the mic is no longer being used.
- Sonic Enhancer – This mode applies a music EQ designed to produce clear highs and tight, punchy lows. Simulates a live music sensation.
- Surround 3D 1, Surround 3D 2, Surround Sim – These modes simulate surround sound using stereo speakers. Each mode is using a different method to approximate surround sound using only 2 speakers, which may work better for some room configurations.

Operations

USING THE KEY CONTROLLER:
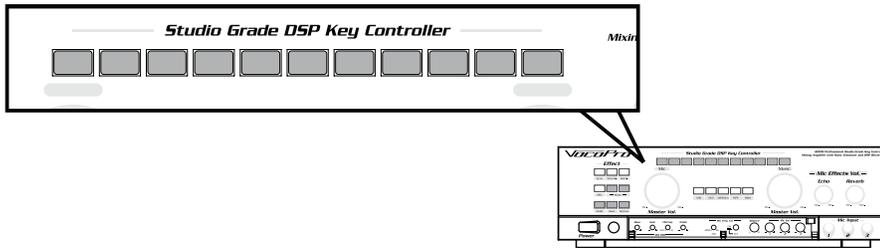
The key control will help adjust the music to better match the current singers' vocal range. If a song is too low or too high, use the key control buttons on the face of the DAX-9900RV, or the buttons on the remote control, to alter the key to better match the singer.

The key control can key the music audio down 5 half steps or up 5 half steps. The current key level will be displayed on the front of the DAX-9900RV and on the On Screen.

USING THE INPUT SELECTOR:

The DAX-9900RV can support up to 5 separate audio source inputs. The input selector will dictate which audio source is heard at a time.
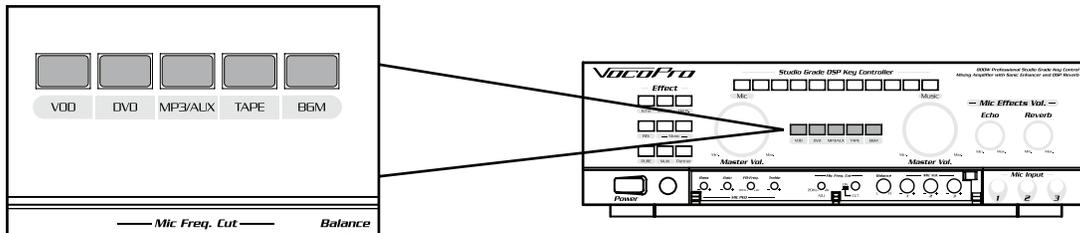
Use the Input Select buttons located on the front of the unit or on the remote control to shift the selected Input.

If the Auto Input Select is activated in the System Set Up menu, the DAX-9900RV will automatically select the input it detects a signal. If no input signal is detected, it will revert to BGM (Background Music) by default.

USING THE MICROPHONE PARAMETRIC E.Q. (P.E.Q):
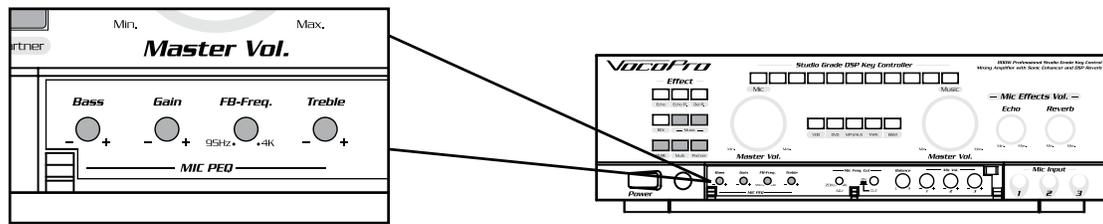
The P.E.Q. adjusts the tone of the microphone audio. Each of the options can be only be altered from the front of the machine.
• Bass – This alters the low-end frequency response of the microphone audio.
• Gain – This alters the level of the microphone input level. Increasing too far to the right may cause distorted audio.
• Feedback (FB) Freq – This changes the frequency at which feedback occurs.
• Treble – This alters the high-end frequency response of the microphone audio.

Operations

USING THE MIC FREQUENCY CUT:
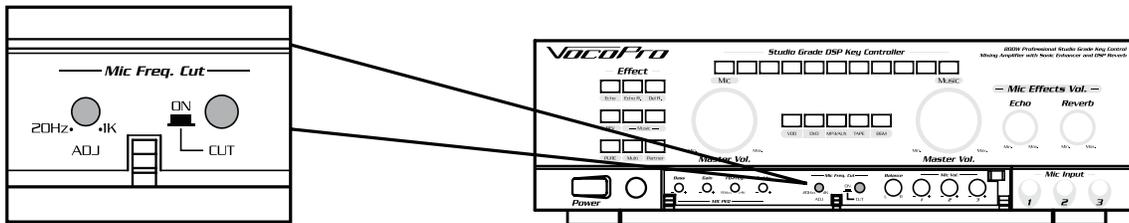
The Mic frequency cut is intended to change the Bass cutoff frequency for the microphone audio. Any audio below the set frequency value will not be heard. This feature is useful for microphones with poor Bass response.

Description

FRONT PANEL
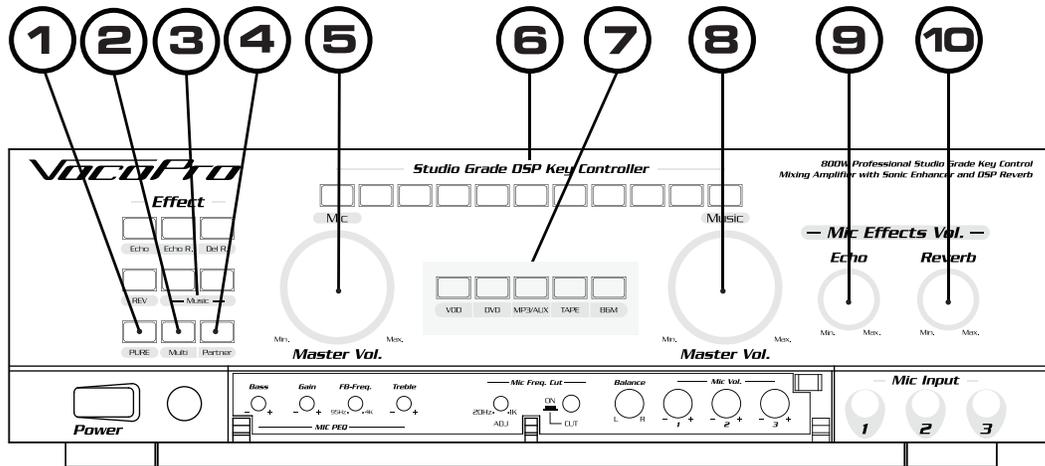
1. Pure Direct – This mode is for high fidelity music audio, with no sound enhancements. When selected, the music audio will bypass any settings that may be on. Access to the Set Up Meny will disabled as well. Use this mode for listening to music or to perform a track as it was originally released.
2. Multi (Multiplex) – When this mode is activated, the main vocal track will be removed. This mode will only work on Multiplex (MPX) format karaoke discs. Press the Multi button to toggle this mode off/on.
3. Music Effect – There are four types of mic effects available. The intensity of the effects can be altered in the Microphone Effect Setup.
    a. Sonic Enhancer
    b. Surround 3D1
    c. Surround 3D2
    d. Surround Sim
4. Vocal Partner – This mode will dip the volume of the main vocal track when the mic is in use. The main vocal track will automatically rise back to audible levels once the mic is no longer being used. This mode will only work on Multiplex (MPX) format karaoke discs. Press the Vocal Partner button to toggle this mode off/on.
5. Master Microphone Control – This controls the overall Microphone volume. When altered, all microphoneaudio will be altered simultaneously. The upper and initial volume limits can be set in the System Set Up menu.
6. Key Control Selector – These buttons will transpose the Music audio by a ½ step per level. Use to match the key of the music to the vocal range of the singer.
7. Input Selector – These allow the DA-9900RV to change audio/video input. The input selections correspond to the input jacks available on the back of the system.
    a. VOD
    b. DVD
    c. MP3/AUX
    d. TAPE
    e. BGM
8. Master Music Control – This controls the overall Music volume. The upper and initial volume limits can be set in the System Setup menu.
9. Echo – This knob adjusts the amount of Echo Effect that is applied to the microphone channels. The maximum Echo level can can be adjusted in the Microphone Effect Setup.
10. Reverb - This adjusts the amount of Reverb Effect that is applied to the microphone channels. The maximum Reverb level can be adjusted in the Microphone Effect Setup.

Descriptions

FRONT PANEL
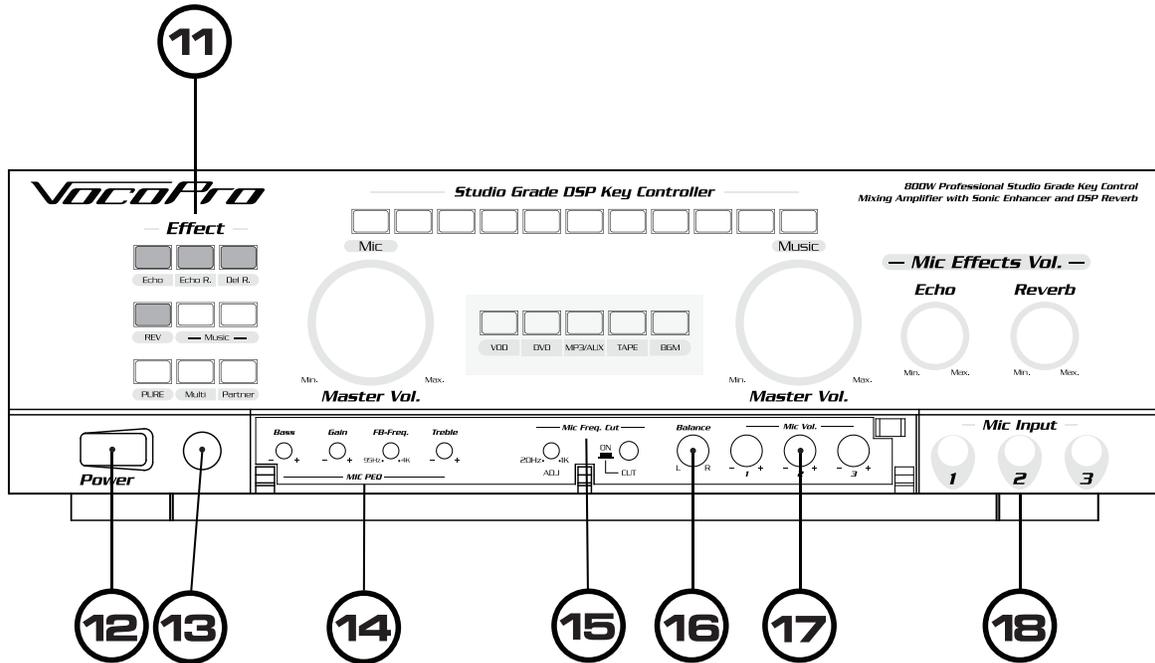
11. Microphone Effects – There are four types of mic effects available. The intensity of the effects can be altered in the Microphone Effect Setup.
    a. Echo
    b. Echo + Reverb
    c. Delay + Reverb
    d. Reverb
12. Power – This controls power to the DA-9900RV.
13. IR Sensor – This sensor detects commands from the remote control. Do not block.
14. MIC Parametric EQ – These adjustments control the Microphone audio. Use them to achieve the desired microphone sound.
    a. Bass – This alters the low-end frequency response of the microphones. Increase to get a booming-like sound, decrease to a tiny-like sound. Preset value is the center position.
    b. Gain – This raises or lowers the strength of the music signal. Use to correct quiet-sounding mics. Beware: increasing the gain aalso increases the potential for distortion. Preset value is the center position.
    c. Feedback Freq (F.B. Freq) – Use this adjustment to alter the frequency at which feedback will occur. Preset value is 1 KHz.
    d. Treble – This alters the mid-level frequency response of the microphones. Increase to get a "bright" sound, decrease to get a "hollow" sound. Preset value is the center position.
15. MIC Frequency Cut – This alters the Bass cutoff frequency for the microphones. Audio lower than the set frequency will not be heard which is useful for microphones with poor bass response.
    a. On/Off – This toggles the MIC Frequency Cut feature.
16. Balance Control – Use this to set the audio proportions between the Left and Right channel. Preset value is the center position.
17. Microphone Volume Control – These knobs adjust the volume for their respective microphone channel.
18. Microphone Input Jacks – Connect a microphone here.

Descriptions

REAR PANEL
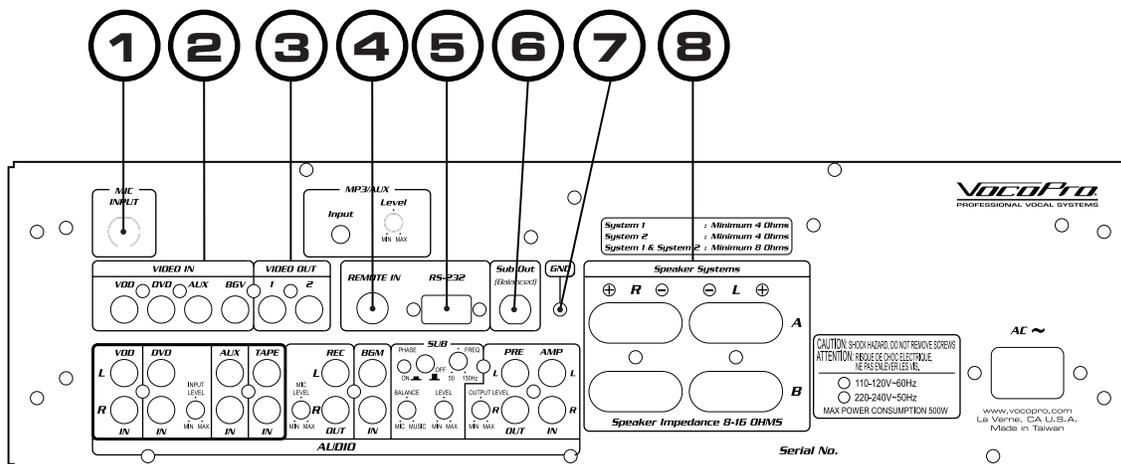
1. Microphone Input – This jack accepts microphone audio via ¼" mono cable.
2. Video Inputs:
   - VOD – This jack accepts video signal from a source such a DVD or CD+G player.
   - DVD – This jack accepts video signal from a source such as a DVD or CD+G player.
   - AUX – This jack accepts video signal from a source such as a DVD or CD+G player.
   - BGV – This jacks accept video from a source that supplies Back Ground Video.
3. Video Outputs – These jacks send the video signal out to a TV/Display.
4. Remote In – This jack is used for KTV control schemes. When used with an appropriate controller, the systems features and functions can be accessed remotely.
5. RS-232 Jack – This jack is intended for service & repair.
6. Sub Out – This jack outputs the Subwoofer signal via a balanced ¼" cable. The output from this jack is unamplified.
7. Ground – This is where the grounding wire is attached to prevent damage to the unit due to static or electric shock.
8. Speaker Jack Connectors – These jacks can support up to 4 speakers. Please be sure to use speakers rated from 4-16 Ohms. (Please reference pg 11 for connection diagram and impedance specifications)

Descriptions

REAR PANEL
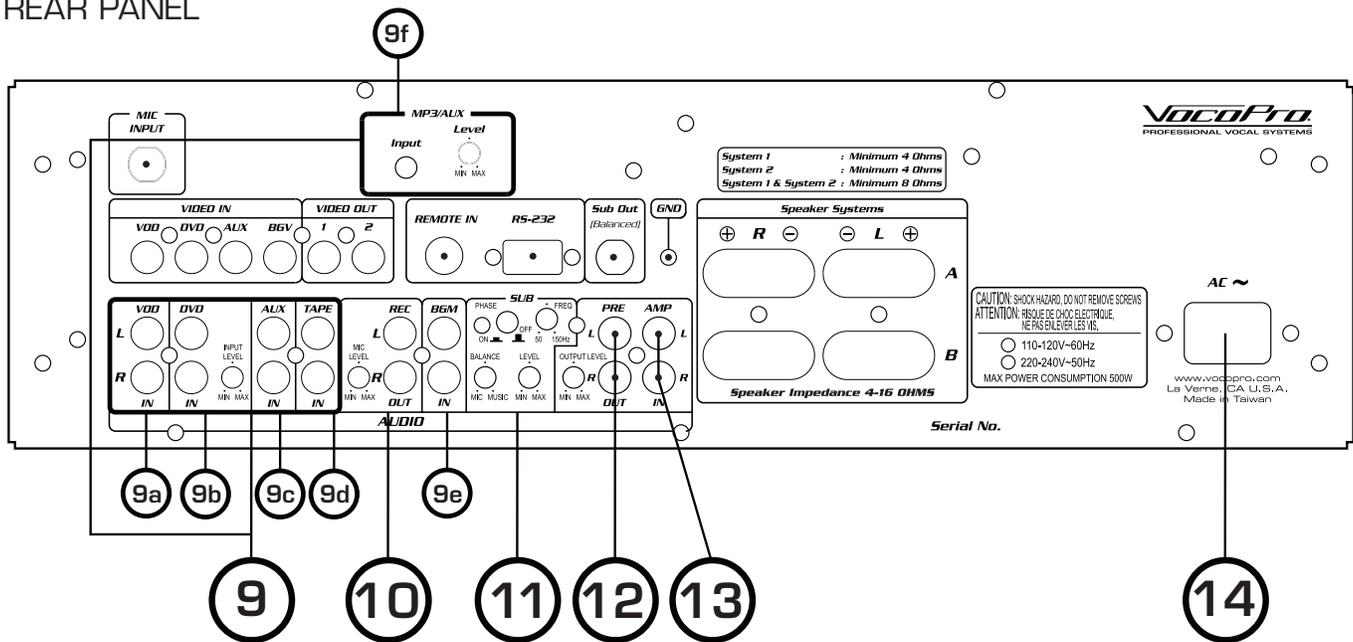
9. Audio Inputs:
   9a. VOD – These jacks accept the audio signal from a source such a DVD or CD+G player.
   9b. DVD – These jacks accept the audio signal from a source such a DVD or CD+G player.
       • DVD Input Level – This knob adjusts the DVD input volume.
   9c. AUX – These jacks accept the audio signal from a source such a DVD or CD+G player.
   9d. TAPE – These jacks accept the audio signal from a source such a Tape or Record player.
   9e. BGM – These jacks accept audio from a source that supplies Back Ground Music.
   9f. MP3/AUX – This jack accepts audio from a source with a 1/8th inch stereo output.
       • MP3/AUX Level – This adjust the input volume of the MP3/AUX jack.
10. REC Out – These jacks send the microphone and music audio signal out to an external recording device.
    • Mic Level – This knob adjusts the microphone volume level present in the REC Out signal.
11. Sub Control – These dictate the audio balance and overall sound of the Sub Out jack.
    • Phase – This changes the Phase of the audio supplied to the subwoofer by 180 degrees. The Subwoofer
      and Speakers must be in the correct Phase for the best audio quality.
    • Crossover Freq – This changes the frequency at which the subwoofer activates. Audio under this
      frequency gets routed to the Subwoofer, audio over this frequency gets routed through the stereo
      speakers.
    • Balance – This changes the balance of Mic and Music audio being supplied to the Subwoofer.
    • Level – This changes the overall output volume from the Subwoofer.
12. Pre-Out – These jacks output the microphone and music audio to be used with an external amplifier or
      powered speakers. These jacks also act as Effect Loop Out jacks, refer to the System Set Up Menu for
      details.
    • Output Level – This adjust the output volume to the external amplifier/device.
13. Amp In – These jacks function as Effect Loops In jacks, refer to the System Set Up Menu for details.
14. Power Connector – This is where the power cable is connected.

Descriptions

REMOTE CONTROL
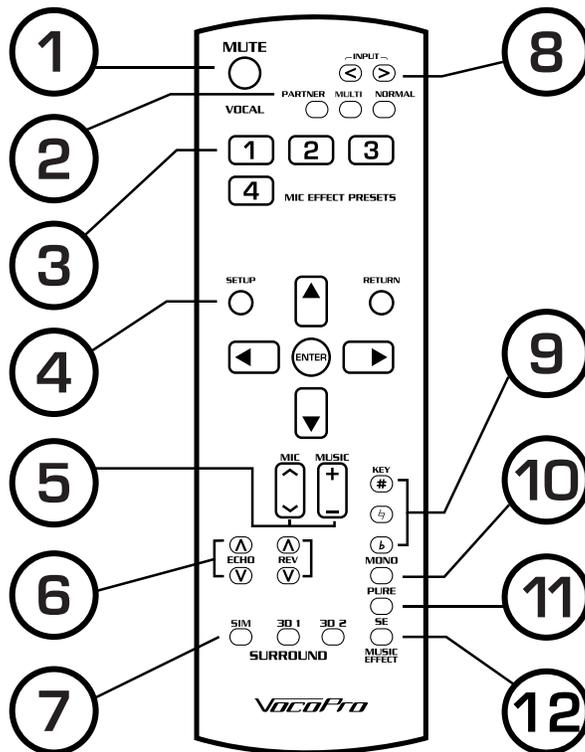
1. Mute – This button silences all audio output from the DAX-9900RV
2. Vocal Effects
   a. Partner - This mode will lower the volume of the main vocal track when the mic is in use. The main vocal track will automatically rise back to audible levels once the mic is no longer being used.
   b. Multi - When this mode is activated, the main vocal track will be removed. This mode will only work on Multiplex (MPX) format karaoke discs. Press the Vocal Partner button to toggle this mode on/off.
   c. Normal – This exits any Vocal Cancel/Partner modes.
3. Mic Effect Presets – These are preset effect and effect levels that can be customized in the Set Up Menu. Refer to the Set Up Menu for details.
   a. 1 - Echo
   b. 2 - Reverb
   c. 3 - Echo + Reverb
   d. 4 - Delay + Reverb
4. Set Up – This accesses the Set Up Menu for System, Music, and Effects Setup. See the Set Up Menu page for more details.
5. Mic Vol Control - Adjusts microphone master volume.
   Music Vol Control - Adjusts music master volume.
6. Echo and Reverb - Adjusts the overall echo and reverb level applied to all mic channels.
7. Music Effect - These alter the music audio to emulate surround sound.
8. Input Selector - These cycle through the available inputs.
9. Key Control - Use to adjust key of music up or down in half step increments.
10. Mono - This turns the signal to the Subwoofer on/off.
11. Pure - This mode is for high fidelity music audio with no sound adjustments. When selected, any audio settings currently set will be disabled, as will access to the Setup Menu.
12. Sonic Enhancer - This mode applies a music EQ designed to produce clear highs and rich lows.

Setup Menu

The Set Up Menu has options to alter the operation of the unit such as the System, Music, and Effect settings. The function settings being edited are rendered inoperable while the Set Up Menu is open.

Use △ ▽ buttons to select an item, press ENTER buttont o enter a selection, and press RETURN button to exit.

DEMO

InputL evel adj.	▶ SET
AGC level : 600mV	SET
Bass	0
Treble	◀ ± 1 ▶

Operate with ▷ button when this sign shows up.

Operate with ◁ and ▷ buttons when this sign shows up.

SETUP
ENTER
RETURN

DECREASE
UP
ENTER
BACK TO PREVIOUS PAGE
DOWN
ENTER SETUP FUNCTION
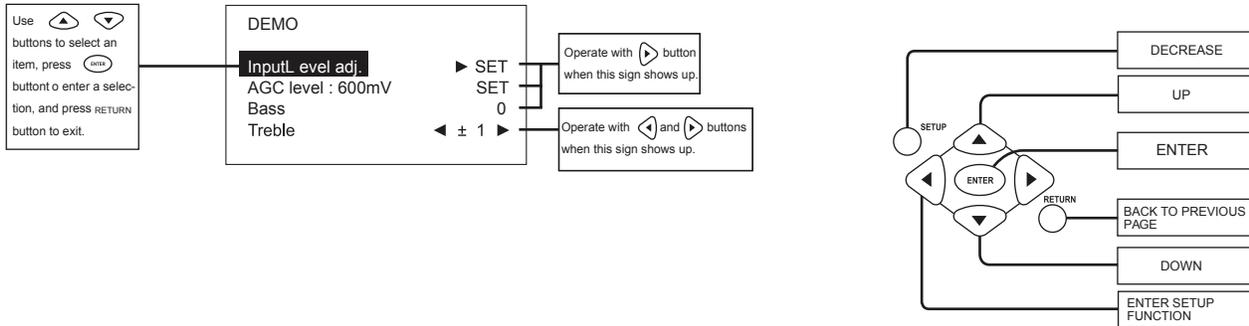
1. **System Setup** – These options change the way the DAX-9900RV looks and operates.
   a. Auto Input Select – This option dictates which input will be automatically selected when signal is detected. If a constant stream of music is desired, turn this feature on.
      i. OFF – Disables the automatic detection of audio signals present in the inputs. Input Selection is entirely user controlled.
      ii. ON – Detects which input has an audio signal present and automatically selects that input. If no audio signal is detected on any input, BGM is selected by default.
   b. IR Key Control – This enables or disables the key control buttons on the DAX-9900RV remote control. This is used to keep the key from being changed on accident.
      i. OFF – Disables the key control buttons on remote.
      ii. ON – Enables key control buttons on remote.
   c. Background color – This selects the background color of the menus and the default video color when there is no video connection made.
         i. Blue   v. Red
         ii. Skyblue   vi. Olive
         iii. Green   vii. Teal
         iv. Brown   viii. Purple
   d. Power Amp In – This selects the function of the Amp In and Pre-Out jacks located on the back panel
      i. When set to EXT:
         1. Amp In jack will function like an Effect Loop In
         2. Pre-Out jack will function like an Effect Loop Out
         3. All microphone audio will be routed out through the Pre-Out jack and would need to be looped through an external effects processor and back in through the Amp In jacks.
      ii. When set to INT:
         1. Amp In jack will be disabled.
         2. Pre-Out jack will function like a standard RCA audio output jack
         3. All microphone audio will be routed through the internal effects processor.
   e. Volume Limit Set – This sets the volume the DAX-9900RV will be set to when the machine is powered on and the maximum volume limit for both Microphone and Music.
      i. Off/On
         1. When set to Off, the music and mic volumes would be user set every time the machine is powered on.
         2. When set to On, the settings for the initial and maximum volume can be set.
            a. Music:
               i. Initial – This sets the music volume level when the machine is powered on.
                     1. Default setting is 0/60
               ii. Max – This sets the highest level the music volume can be set to.
                     1. Default setting is 60/60
            b. Mic:
               i. Initial – This sets the mic volume level when the machine is powered on.

          1. Default setting is 0/60

       ii. Max – This sets the highest level the mic volume can be set to.

          1. Default setting is 60/60

2. **Music Setup** – These options change the way the DAX-9900RV handles audio signals.
   a. Input Level Adj – This alters the volume of the inputs respectively. Each input can have an adjustment of -6 to +6 dB independently. Preset value is 0 dB
   - i. VOD
   - ii. DVD
   - iii. AUX
   - iv. TAPE
   - v. BGM

   b. AGC Level (mVrms) – These options alter the gain of the input signals connected to each input respectively. Each input channel can have a custom value of: 150, 300, 400, 540 mV. Preset value is 0mV.
   - i. VOD
   - ii. DVD
   - iii. AUX
   - iv. TAPE
   - v. BGM

   c. Mic Effect Memory – This designates the default Microphone Effect when the unit is powered on. See
   - i. Last
   - ii. Effect 1
   - iii. Effect 2
   - iv. Effect 3
   - v. Effect 4

   d. Bass – This adjusts the Bass response of the music audio. The Bass can be altered from -12dB to +12dB. The preset value is 0dB.
   e. Treble – This adjusts the Treble response of the music audio. The Treble can be altered from -12dB to +12dB. The preset value is 0dB.
   f. Balance L/R – This adjusts the proportion of music between the Left and Right audio channels. Left and Right audio Channels. Left and Right channel can have their audio altered from -30 to 0dB. Stereo will is 0dB/0dB.
   g. Sonic Enhancer - This dictates if the S.E is on/off and if on. If on, adjustments to the high and low frequency bands can be made.
   - i. High-Freq: 0 - 12dB
   - ii. Low-Freq: 0 - 12db

3. **Microphone Effect Setup** – These options alter the way the Microphone effects sound and operate.
   a. Echo
   - i. Delay Time – This alters the length of time between Echo repeats.
     - 1. 1.0 – 30ms
   - ii. Repeat – This alters the number of time the Echo is heard.
     - 1. 1.0 – 70
   - iii. Depth – This alters the initial strength of the Echo effect.
     - 1. -50% -- +50%

   b. Reverb
   - i. Time – This alters the duration of the Reverb effect.
     - 1. 0.3 – 10 sec.
   - ii. Pre-Delay – This alters the delay length before the Reverb effect is heard.
     - 1. 1.0 – 250ms
   - iii. Low Pass Filter (L.P.F) – This alters the tone of the Reverb effect.
     - 1. 1.4Hz – 13KHz
   - iv. Type – This changes the which Reverb is used.
     - 1. Stage, Plate, Hall, Room

   c. Initial Data – This reverts all of the options back to factory settings.

Specifications

AMPLIFIER

- Audio Output Power: 150W+150W(8Ω)

- Total Harmonic Distortion: (1KHz, -3dB,8Ω) 0.05%

- Audio Input (Sensitivity / Impedance):
  MIC 3.5 mV/3.3KΩ
  MUSIC 350 mV/33KΩ

- Audio Ouput (Level / Impedance):
  PRE - OUT: 2.8V/1KΩ
      Overload Output Voltage: 9.6/1KΩ
  SUB OUT (Balance): 5.2V/1KΩ
  Recording Output: 340 mV/1KQ

  PRE OUT
      L/R: 2.8V / 1KΩ

- Frequency response
  MIC: 20Hz~15KHz, -0.2 ~ -1dB
  MIC LOW CUT: 20Hz ~ 1KHz
  MUSIC: 20Hz ~ 20KHz, -1 ~ -0.5dB
  SUB: 20Hz ~ 200 Hz

- Tone control response
  MIC   BASS: +9 ~ -11dB(100Hz)
              GAIN: +11.5 ~ -13.5dB(1KHz)
              FREQ: 95 ~ 4KHz
              TREBLE: +6.5 ~-8.5dB(10KHz)
              LOW CUT: 20~1KHz(-18dB)
  MUSIC   BASS: ±8.5dB(100Hz)
              TREBLE: ±9.5dB(10KHz)
              SE: - LOW +8(100Hz)
              SE: - HIGH +9(10KHz)

POWER SUPPLY

- Power supply: 110/120 VAC 50~60Hz
- Power Consumption: 500W

OTHER

- Dimensions (W x H x D): 16.9 x 5.35 x 16.3 in.
- Weight: 13Kg

- Speaker Impedance (A/B): 8Ω ~16Ω

- Music Key Control Range: 14Step ±7 Pitch

- Video Input (Sensitivity / Input Impedance): 1Vp-p/75Ω

- Video Output (Output Level / Output Impedance) 1Vp-p/75Ω

- Echo Delay Time (MAX): 300ms

- Echo Repeat time (MAX): 5Sec

- Reverb delay time (MAX): 10Sec

Commonly Asked Questions

Q: Why is there no music audio?

A: Check that the:
- *Cables from the music source and the DAX-9900RV are properly secured.*
- *Cables from the speaker terminals and speakers are properly connected.*
- *Input select is set to an input with audio playback.*
- *Master music volume is turned up.*
- *Mute function is not activated.*
- *Power Amp In setting is set to INT.*

Q: Why are the Key Control buttons on the remote control not working?

A: In the Set Up menu, the IR Key Control setting must be turned ON in order for the remote Key control buttons to work.

Q: Are banana jacks required in order to connect the speakers?

A: No, you are able to use bare speaker wire with the speaker terminals. Refer to Getting Connected: Preparing the Speaker Cable.

A: Be sure to match polarities from the speaker terminals to the speaker

Q: Do the banana jacks snap into place?

A: No, the banana jacks will simply slide into place and are held in place by the tension of contact between the metal terminals.

Q: I'm sending the microphone audio to an external effects processor, why do I have no audio?

A: The audio has to be looped back in from the output of the external effects processor through the Amp In jacks on the back of the DAX-9900RV.

A: The Power Amp In option in the Set Up menu must be set to EXT in order for the Pre-Out and Amp In jacks to function as an Effects Loops.

Q: What cables do I need to use an external effects processor?

A: It would depend on the processor being used; it would likely require an RCA to ¼ cables. Whether it is a TS (tip-sleeve) or TRS (tip-ring-sleeve) ¼ cable would be dictated by the available inputs located on the effects processor.

Q: Why can't I change the Parametric E.Q settings on the front of the system?

A: It would require a small flathead screwdriver to adjust the knobs. There is a small horizontal indent on each knob.

Q: Why can't I read the set up menu on the display?

A: The Set Up Menu options are overlaid the video from whichever input source being used at the time. Either stop playback on the video source or switch the input selector to an input that does not have a video signal.

Q: Why are none of the effects working?

A: The Pure function is turned on. When activated, all mic effects and set up menus are disabled.

Notes

DAX-9900RV Owner's Manual
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