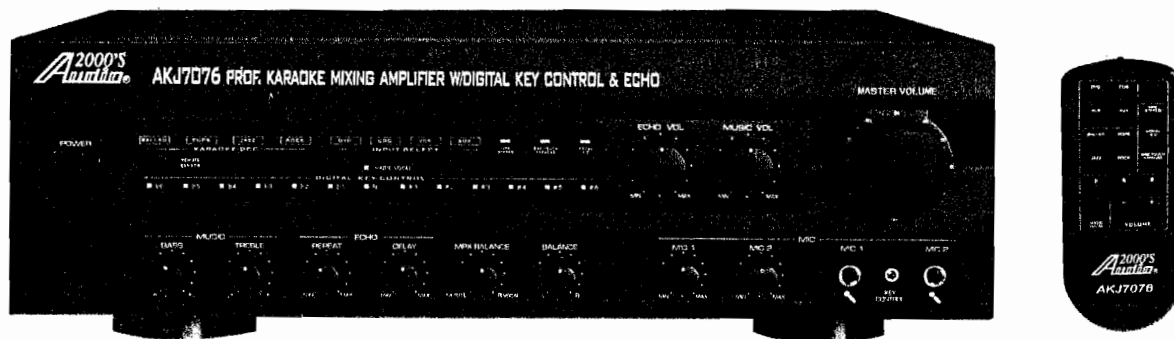


# A2000'S<sup>®</sup> Audio

**PROF. KARAOKE MIXING AMPLIFIER WITH  
DIGITAL KEY CONTROL AND ECHO**

**AKJ7076**

**OWNER'S MANUAL**



Thank you for purchasing the **Audio2000'S<sup>®</sup>** professional karaoke mixing amplifier with digital key control and echo! To achieve maximum performance from your new unit, please read this manual thoroughly, and retain it for future reference. For more information, please visit our website ([www.audio2000s.com](http://www.audio2000s.com)).

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## WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

Dangerously high voltages are present inside the unit. Do not open the casing of the unit. Refer servicing to qualified personnel only.

## PRECAUTIONS

### On Safety

\* Operate only on designated AC power supply (120V AC in North America).

\* Should any liquid or solid object fall into the unit, unplug the unit and have it checked by qualified personnel before attempting any further operation.

\* Unplug the unit from the wall outlet or set the power switch to OFF if it is not to be used for several days.

\* Pull the cord out by the plug when unplugging the unit. Never pull the cord itself.

### On Installation

\* Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.

\* Do not install the unit in a location near heat sources, such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

### On Repackaging

Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it as it was originally packed at the factory.

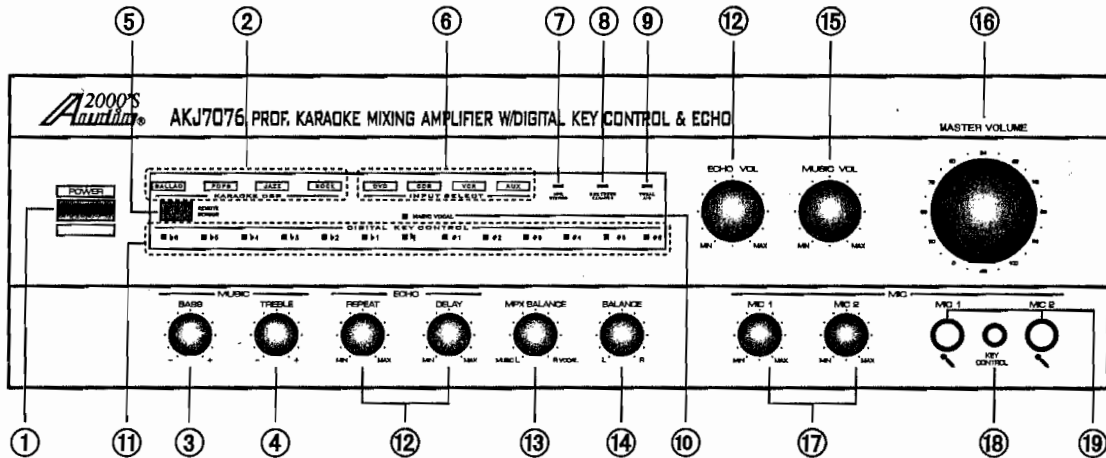
# SYSTEM

## FEATURES

1. Turn-On Output Muting
2. Built-in Stereo Power Amplifier (100W + 100W, rms)
3. Two Microphone Inputs
4. Four Audio Inputs (DVD, CDG, VCR, and AUX)
5. Two Audio Outputs (Both Adjustable)
6. Four Video Inputs and Two Video Outputs
7. Music Bass/Treble Tone Controls
8. Individual Microphone Volume Controls (*Mic 1 and Mic 2*)
9. Digital Echo Volume/Repeat/Delay
10. +/- 6 Steps Digital Key Control
11. Music Volume Control
12. Master Volume Control
13. MPX/Balance Controls
14. Balance Control

## LOCATION AND FUNCTION OF PARTS AND CONTROLS

### FRONT PANEL



1. **POWER & STAND-BY**---Press the **POWER** switch to turn on the mixing amplifier. When the **POWER** switch is turned on, the red power indicator LED will be on. On the remote control commander, there is a "STAND BY" button. Press the "STAND BY" button on the remote control commander will place the AKJ7076 at the stand-by mode and the power indicator LED will turn green while all the other LED's and all the audio functions will be turned off. Press this switch again to turn off the mixing amplifier. After the mixing amplifier is turned off, the "STAND BY" button on the remote control commander will be disabled.

**2. KARAOKE DSS (Digital Super Surround)** --- The Karaoke DSS special sound effects include: BALLAD, POPS, JAZZ, and ROCK.

(1) BALLAD: This special sound effect is mostly applied to mellow songs with slow tempos to enhance the vocal expressions.

(2) POPS: This special sound effect is mostly applied to the pop music to provide the feeling of brightness.

(3) JAZZ: This special sound effect is intended to be applied to the Jazz music to simulate a small hall environment and to create jazz club atmosphere.

(4) ROCK: This special sound effect is applied to the rhythmical rock sound to enhance the vocal dynamics.

Press one of the above four buttons to select that specific special sound effect. Press the same button again to cancel that specific special effect.

When any of the karaoke DSS function is being used, it will be disabled if either the music bass control knob ( refer to numeral 2) or the music treble knob (refer to numeral 3) is turned.

**3. BASS** --- This is the bass control for the music inputs.

**4. TREBLE** --- This is the treble control for the music inputs.

**5. REMOTE CONTROL RECEPTION WINDOW** --- The infrared control signal from the remote control commander is to be received through this window.

**6. SOURCE SELECTION** --- There are four audio input source selection buttons: DVD, CDG, VCR and AUX. Press one of the above four buttons to select the input source. An LED background light behind the corresponding DVD, CDG, VCR or AUX window will light up to indicate the selection.

**7. MPX STEREO** --- Press this button to enable the MPX BALANCE function as described in numeral 13.

**8. ONE TOUCH KARAOKE** --- If this button and the MPX STEREO button are pressed at the same time any audio signal originally recorded on the right sound track (normally the lead singer's vocal sound on a karaoke CDG or DVD) will be removed such that the user can follow the background music to perform or to sing, without the pre-recorded lead singer's vocal sound.

**9. VOCAL AID** --- When this button and the MPX STEREO button are pressed at the same time, any audio signal originally recorded on the right sound track (normally the lead singer's vocal sound on a karaoke CDG or DVD) will be removed only when one or more of the microphone inputs receive voice signal such that the user can follow the background music to perform or to sing, without the pre-recorded lead singer's vocal sound.

**10. MAGIC VOCAL** --- When the MAGIC VOCAL button is pressed, the magic vocal red LED light will be turned on while the music key control will automatically return to the normal position and the key control buttons (b, **H**, #) will be used to control the vocal (microphone) key levels to get vocal sound special effects. If the MAGIC VOCAL button is pressed again, the magic vocal red LED light will be turned off and the above vocal special effect function will be disabled (the music key will stay at its normal position).

**11. DIGITAL KEY CONTROL** --- There are 13 digital key control buttons: b6, b5, b4, b3, b2, b1, **H**, #1, #2, #3, #4, #5, #6. Press one of these digital key control buttons to move the audio signal to the key as indicated by the pressed button. An LED light next to the pressed button will light up to indicate the audio key selection.

**12. DIGITAL ECHO CONTROLS** --- The digital echo controls include three control knobs: REPEAT, DELAY, and ECHO VOL. The REPEAT control knob is used to adjust how many times the echo sound is to be repeated. The DELAY control knob is used to adjust the time duration between each echo sound. The ECHO VOL control is used to adjust the echo volume.

**13. MPX BALANCE** --- When the MPX STEREO button is pressed, turn the MPX BALANCE knob counter-clockwise to gradually allocate more audio signal from the left audio track and less audio signal from the right audio track to the audio output (with the combined right output and combined left output having approximately same audio level). Turn the MPX BALANCE knob clockwise to gradually allocate more audio signal from the right audio track and less audio signal from the left audio track to the audio output (with the combined right output and combined left output having approximately same audio level).

If the MPX STEREO button is released, the MPX BALANCE knob will be disabled.

**14. BALANCE** --- Turn the BALANCE knob counter-clockwise to gradually allocate more audio signal from the left audio track and less audio signal from the right audio track to the audio output (with the right output audio level being gradually less than the left output audio level). Turn the MPX BALANCE knob clockwise to gradually allocate more audio signal from the right audio track and less audio signal from the left audio track to the audio output (with the right output audio level being gradually more than the left output audio level).

**15. MUSIC VOL** --- The music volume control is used to control the output level of the audio signal from the selected audio source input.

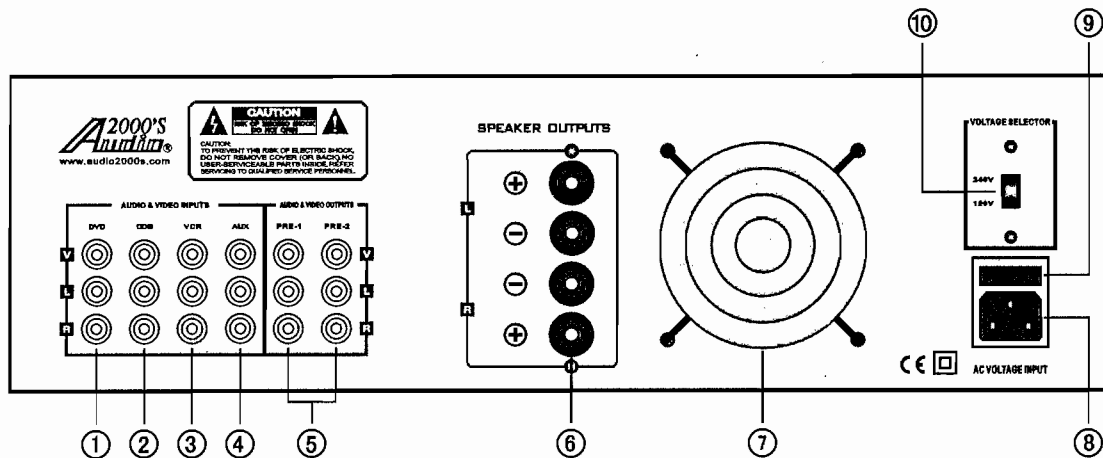
**16. MASTER VOLUME** --- This master volume control knob is used to adjust the output audio.

**17. MIC VOLUME CONTROL** --- There are two microphone volume control knobs (MIC 1 and MIC 2) where the MIC 1 knob is used to adjust the level of the MIC 1 input and the MIC 2 knob is used to adjust the level of the MIC 2 input.

**18. KEY CONTROL** --- Microphone key control input jack.

**19. MICROPHONE INPUT JACKS (MIC 1 and MIC 2)**

## REAR PANEL



**1. DVD** --- DVD audio and video input RCA jacks.

**2. CDG** --- CDG audio and video input RCA jacks.

**3. VCR** --- VCR audio and video input RCA jacks.

**4. AUX** --- AUX audio and video input RCA jacks.

**5. AUDIO and VIDEO OUTPUTS** --- There are two audio and video outputs: PRE-1 and PRE-2. Both PRE-1 and PRE-2 audio outputs can be adjusted by the master volume control.

**6. SPEAKER OUTPUT TERMINALS** --- Banana jacks are used as the speaker output terminals. The overall effective impedance of the speaker sets to each side (left or right side) of the speaker terminals needs to be within the range of 6Ω to 16Ω. (**Caution:** If two sets of 8Ω speakers are connected to one set of speaker terminal, the effective impedance of these two speakers will be 4Ω, just half of its original impedance.)

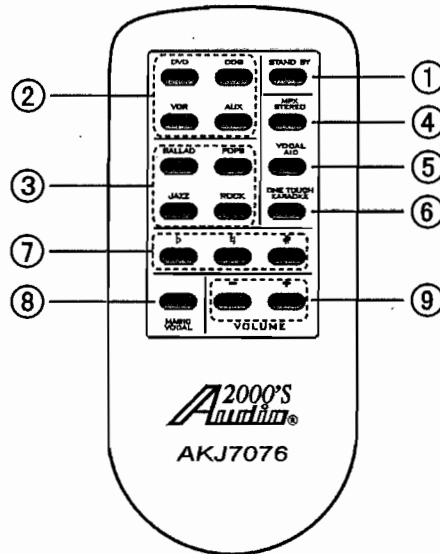
**7. COOLING FAN**

**8. AC VOLTAGE SOURCE**

**9. FUSE** --- For a 120V AC power source, use a 5.0A fuse. For a 240V AC power source, use an 2.5A fuse.

**10. VOLTAGE SELECTOR** --- Check to make sure the AC Voltage Selector switch is set to the proper voltage for your area (120V/60Hz for the North America Area) before plugging in the AC cord to the AC power outlet. (**CAUTION:** UNPLUG THE AC CORD FROM THE AC POWER OUTLET BEFORE RESETTING THE AC VOLTAGE SELECTOR SWITCH.)

## REMOTE CONTROL COMMANDER



1. **STAND BY** --- Press the STAND BY button to turn on the mixer. Press this button again to place the mixer to the standby mode. If this button is pressed again, the mixer will be turned on again with all the previous function settings.
2. **SOURCE SELECTION** --- The source selection buttons include a DVD button, a CDG button, a VCR button, and an AUX button. Press one of the above source selection buttons to select the corresponding input source as indicated by the button.
3. **KARAOKE DSS (BALLAD, POPS, JAZZ, and ROCK)** --- Press one of the above four buttons to select the selected special sound effect. Press the same button again to cancel the selected special sound effect.
4. **MPX STEREO** --- Refer to the descriptions in numeral 7 in the front panel section.
5. **VOCAL AID** --- Refer to the descriptions in numeral 9 in the front panel section.
6. **ONE TOUCH KARAOKE** --- Refer to the descriptions in numeral 8 in the front panel section.
7. **KEY CONTROL BUTTONS (b, H, #)** --- There are three key control buttons. The left button is the "b" button. The middle one is the "H" button. The right one is the "#" button. Press the "b" button to shift the key down. Press the "#" button to shift the key up. Press the "H" button to reset the key. The key can be changed from b6 to #6, totally 13 steps.
8. **MAGIC VOCAL** --- When the MAGIC VOCAL button is pressed, the magic vocal red LED light will be turned on while the music key control will automatically return to the normal position and the key control buttons (b, H, #) will be used to control the vocal (microphone) key levels to get vocal sound special effects. If the MAGIC VOCAL button is pressed again, the magic vocal red LED light will be turned off and the above vocal special effect function will be disabled (the music key will stay at its normal position).  
When this button on the remote control commander is pressed, the other buttons need to be pressed for more than about 3 seconds to be activated.
9. **VOLUME** --- The VOLUME button is used to control the audio output level from the selected audio source input. There are two VOLUME buttons: "+" and "-". Press the "+" button to raise the audio output level. Press the "-" button to lower the audio output level.

## SPECIFICATIONS

|                                    |  |
|------------------------------------|--|
| INPUT SENSITIVITY                  | MICROPHONE – 6mV/600Ω<br>DVD – 300mV/22KΩ<br>CDG – 300mV/22KΩ<br>VCR – 300mV/22KΩ<br>AUX – 300mV/22KΩ<br>VIDEO – 1Vp-p/75Ω |
| OUTPUT LEVEL                       | PREOUT – 2.5V/1KΩ<br>VIDEO – 1Vp-p/75Ω   |
| TOTAL HARMONIC DISTORTION (T.H.D.) | 0.03% @ 1KHz, -3dB, 6Ω   |
| FREQUENCY RESPONSE                 | MIC – 10 – 25,000Hz (±3dB)<br>MUSIC – 10 – 40,000Hz (±3dB)   |
| MIC TONE CONTROL CHARACTERISTICS   | BASS – ±10dB (100Hz)<br>TREBLE – ±10dB (10KHz)   |
| MUSIC TONE CONTROL CHARACTERISTICS | BASS – ±10dB (100Hz)<br>TREBLE – ±10dB (10KHz)   |
| KEY CONTROL RANGE                  | 13 STEPS (± 6 STEPS)   |
| POWER OUTPUT                       | 200W, rms (TOTAL)(100W,rms/CHANNEL, 2 CHANNELS)  |
| WEIGHT                             | 19.1 lbs (8.7 Kg)  |
| DIMENSIONS (W X D X H)             | 16.5" X 12.9" X 5.4"(420 X 328 X 138 mm)   |

## QUICK SETUP AND OPERATION

1. Unpack the AKJ7076 prof. karaoke mixing amplifier from the shipping carton.
2. Check to make sure the AC Voltage Selection switch is set to the proper voltage for your area (120V/60Hz for the North America Area) before plugging in the AC cord to the AC power outlet. (CAUTION: UNPLUG THE AC CORD FROM THE AC POWER OUTLET BEFORE RESETTING THE AC VOLTAGE SELECTION SWITCH.)
3. There are four audio input RCA jacks on the rear panel of the AKJ7076. Connect the desired music sources to the appropriate input jacks.
4. Connect appropriate numbers of microphones to the microphone inputs.
5. Connect the speaker output jacks to the speakers. The effective speaker impedance for each channel needs to be 6Ω or higher.
6. Turn on the power of the AKJ7076.
7. Adjust the volume control, tone control, key control and/or echo control knobs as necessary to have the optimal volume and sound quality.
8. Start to enjoy the AKJ7076 karaoke mixing amplifier.

## TROUBLESHOOTING

| PROBLEM         | POSSIBLE CAUSES   | SOLUTIONS  |
|-----------------|---|--|
| No power        | Power is off.   | Turn on mixer.   |
|                 | AC power cord is unplugged.   | Plug the AC power cord to an AC power outlet (120V).   |
|                 | The fuse inside the transformer is open.  | Send the mixing amplifier to an authorized service center.   |
| Distorted sound | The electrical signal from the output of the player to the mixing amplifier is over the limit of the input of the mixing amplifier. | Turn down the master volume control of the player and turn up the volume control of the mixing amplifier to maintain the same sound level. |

|               |  |  |
|---------------|--|--|
|               | Incorrect AC Voltage (The AC power cord is plugged to a 240V outlet or to a unstable 120V outlet). | Make sure the AC power cord is plugged to an AC power outlet with a correct and stable AC voltage. |
| No sound      | Incorrect input selection.   | Make sure the input source selection button is set correctly.                                      |
|               | Master volume control knob is turned all the way down (zero sound output).                         | Turn the master volume knob to a position that the sound level is desired.                         |
|               | Bad cable or poor contact  | Make sure that all cables are not damaged and all contact points are proper.                       |
| Humming noise | Grounding problems between two adjacent equipments.  | Try to use an isolator to remove the grounding problems.   |

## SERVICE INFORMATION

### SHIPPING DAMAGE

If the shipping carton is found to be damaged, notify the delivery company immediately. Save the damaged carton as evidence for the delivery company to inspect. It is the responsibility of the consignee to file a claim with the delivery company for any damaged that occurs during shipping. In the case that the shipping carton is in good condition but the unit is damaged or defective, call **Audio2000'S®** at 805-523-2759.

### FACTORY SERVICE

If the equipment needs factory service, call **Audio2000'S®** at 805-523-2759 for a Return Authorization number (RA number) and the address of the authorized service representatives. Insure and ship the product, prepaid, in its original carton along with proof of purchase in the form of a bill of sale or receipted invoice to the above address. Please clearly write the RA number on the shipping carton. Also enclose a note describing the problem along with any other helpful information such as where and how the unit was used.

### LIMITED WARRANTY

H&F Technologies, Incorporated (H&F) hereby warrants that **Audio2000'S®** products will be free from defects in material and workmanship for a period of 1 (one) year from date of purchase. At its option, H&F will repair or replace the defective product and promptly return it to you.

The Limited Warranty will not cover any item that has been, in H&F's estimation, subject to alteration, misuse, neglect, accident or improper installation. In addition, any service not performed by H&F or an authorized service center will terminate terms of this warranty. Normal wear and tear of this product will not be covered by this or any implied warranty.

No liability will be accepted for damages/loss directly caused from the use of this product. H&F's liability shall be limited to the repair/replacement of this product if found to be defective.