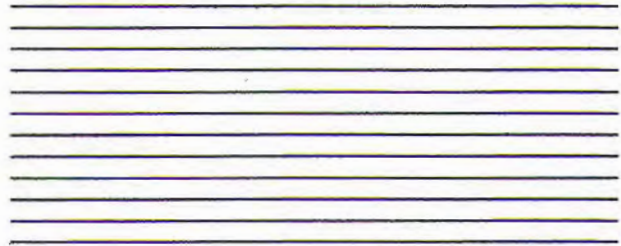


KARAOKE

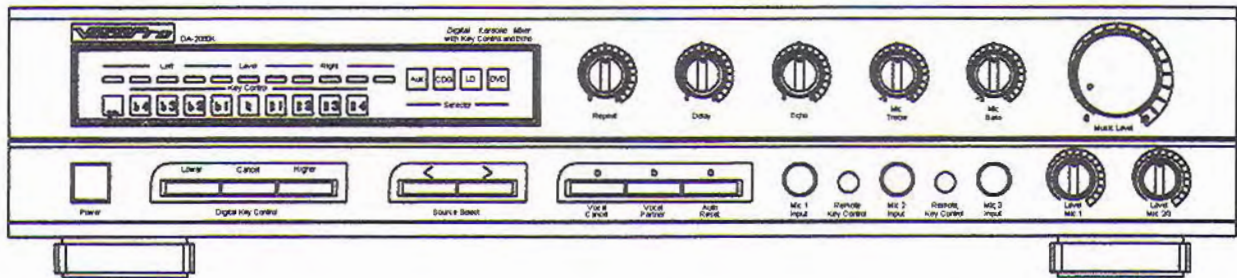
DIGITAL KEY CONTROL/ECHO MIXING SYSTEM

VocoPro

ULTIMATE CHOICE OF KARAOKE ENTERTAINMENT



INSTRUCTION MANUAL

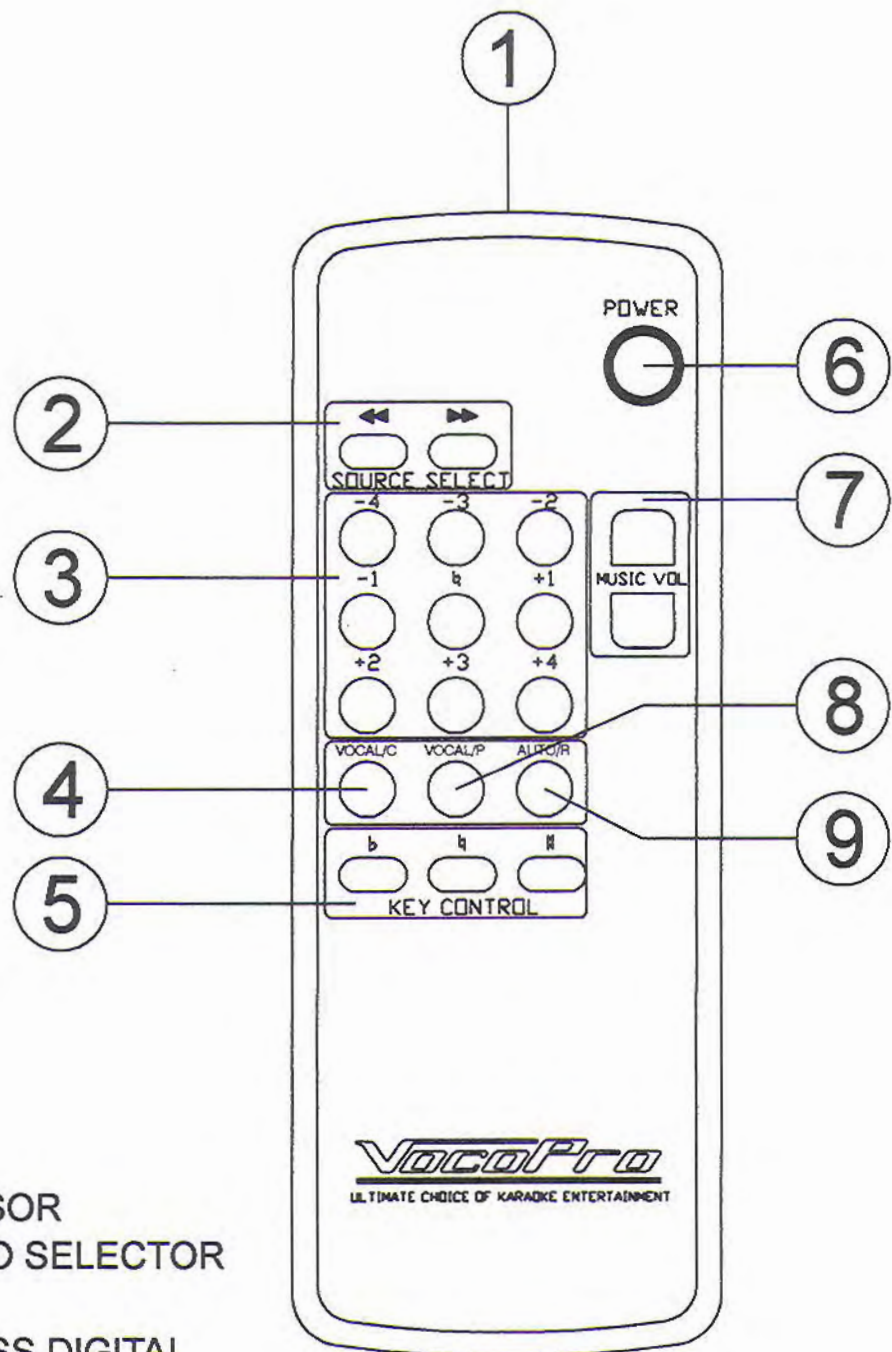


DA-2080K

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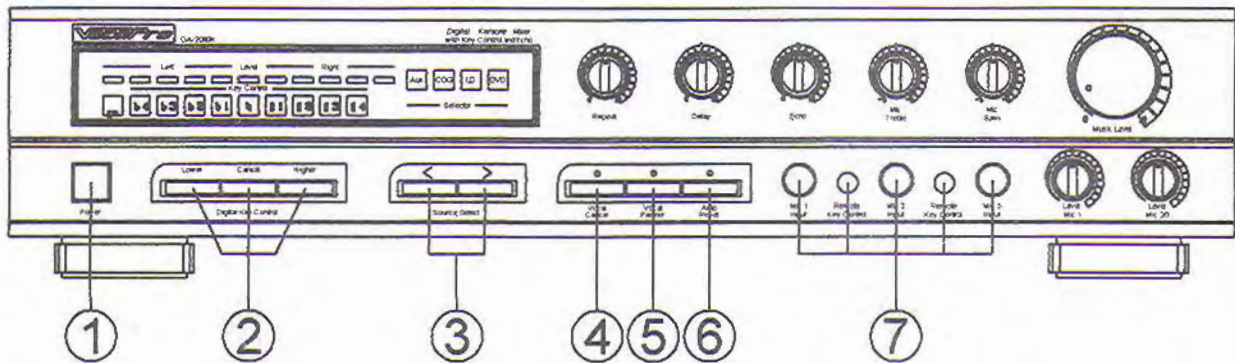
- REMOTE CONTROL UNIT.....1
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- TROUBLE SHOOTING.....5
- SPECIFICATIONS.....6
- CONNECTIONS.....7
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REMOTE CONTROL



1. REMOTE SENSOR
2. AUDIO & VIDEO SELECTOR BUTTON
3. DIRECT ACCESS DIGITAL KEY CONTROL
4. VOCAL CANCEL BUTTON
5. KEY CONTROL BUTTON
6. POWER SWITCH
7. MUSIC VOLUME CONTROL BUTTON
8. VOCAL PARTNER BUTTON
9. AUTO RESET BUTTON

FRONT PANEL



1. POWER SWITCH

PRESSING THIS SWITCH TURNS ON THE POWER.
PRESSING THIS SWITCH AGAIN TURNS OFF THE POWER.

2. KEY CONTROL BUTTONS

PRESS TO CHANGE THE PITCH OF THE MUSIC SOURCE DIGITALLY.
CANCEL: RESET TO THE STANDARD PITCH.
HIGHER: A MAXIMUM RAISE OF THREE TONES BELOW THE SETTING OF THE STANDARD KEY IS POSSIBLE IN SEMITONE-STEPS.
LOWER: A MAXIMUM DECREASE OF THE STANDARD KEY IS POSSIBLE IN SEMITONE-STEPS.

3. INPUT SELECTOR / INDICATORS

SELECT THE INPUT SOURCE SIGNALS YOU WISH TO PLAY.

4. VOCAL CANCEL MODE / INDICATORS

USE THIS MODE TO CANCEL THE VOCAL ON SPECIAL PRERECORDED MULTI AUDIO TAPE OR DISC.

5. VOCAL PARTNER MODE / INDICATORS

USE THIS MODE FOR SINGING RELAY WITH THE VOCALIST ON SPECIAL MULTI AUDIO TAPE OR DISC.

IT OPERATES WHEN YOUR VOICE IS SOUNDING INTO THE MICROPHONE, THE VOCAL ON THE TAPE WILL BE REDUCED OR CANCELLED, AND WHEN YOUR VOICE IS WEAK OR STOPPED, THE VOCAL ON THE TAPE WILL REAPPEAR AGAIN.

6. AUTO RESET MODE

USE THIS MODE TO RESET KEY CONTROL BACK TO STANDARD PITCH AFTER EACH SONG.

7. MIC AND KEY CONTROLLER JACKS

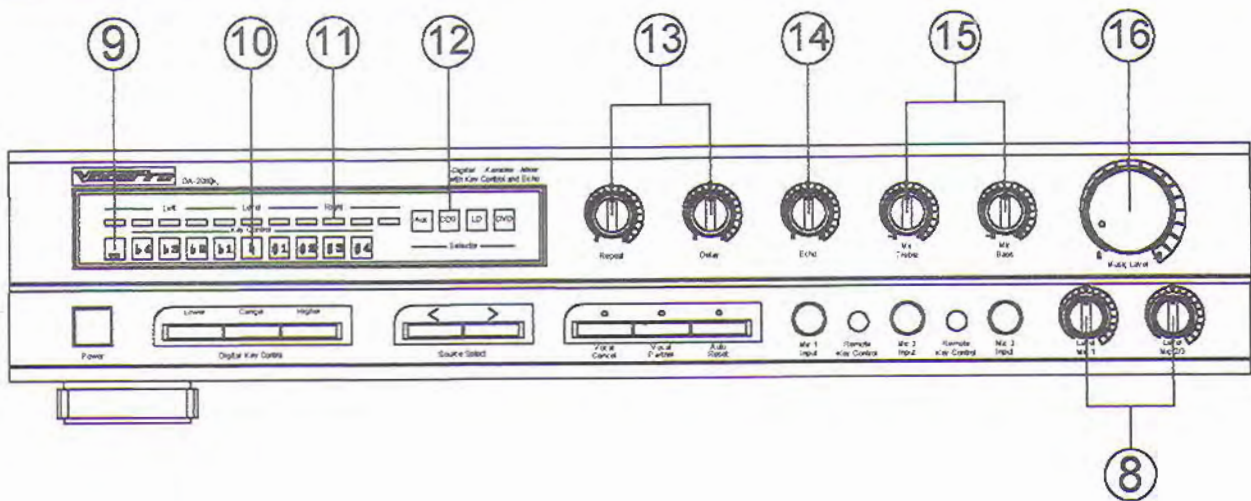
THREE MICROPHONES CAN BE CONNECTED SIMULTANEOUSLY.

WHEN USING A MICROPHONE WITH KEY CONTROL SWITCH, CONNECT IT TO MIC 1, 2 OR MIC 3 JACK, AND BE SURE TO CONNECT THE CONTROL CABLE TO KEY CONTROL JACK.

NOTES:

1. TO PROTECT THE SPEAKERS AND AMPLIFIER: ALWAYS A GOOD IDEA TO TURN DOWN THE MIC VOLUME DURING MICROPHONE CONNECTION.
2. THE SET POSITION OF THE KEY CONTROL MIGHT CHANGE WHEN THE CONTROL PLUG IS CONNECTED TO OR REMOVED FROM THE KEY CONTROLLER JACK. IN SUCH A CASE, RESET TO THE DESIRED POSITION.

FRONT PANEL



8.MIC.1 ~ MIC.3 VOLUME CONTROL

TO ADJUST THE PERSPECTIVE MICROPHONES VOLUME LEVEL INDEPENDENTLY.

15.MIC. BASS AND TREBLE CONTROL

ADJUST THE TONE (BASS / TREBLE) OF THE MICROPHONE.

9.REMOTE SENSOR

10.KEY CONTROL INDICATORS

11.LEFT / RIGHT CHANNEL LEVEL INDICATOR

DISPLAY THE INPUT LEVEL OF THE MUSIC BEEN PLAYED.

16.MUSIC VOLUME CONTROL

CONTROL THE MUSIC VOLUME OF EQUIPMENTS CONNECTED TO THE VCR, LASERDISC PLAYER, CDG PLAYER, AND TAPE / AUX JACKS ON THE REAR PANEL.

12.INPUT SELECTOR INDICATOR

13.ECHO REPEAT AND DELAY CONTROL

CONTROL THE ECHO CHARACTERISTICS OF MIC 1,2 AND 3.

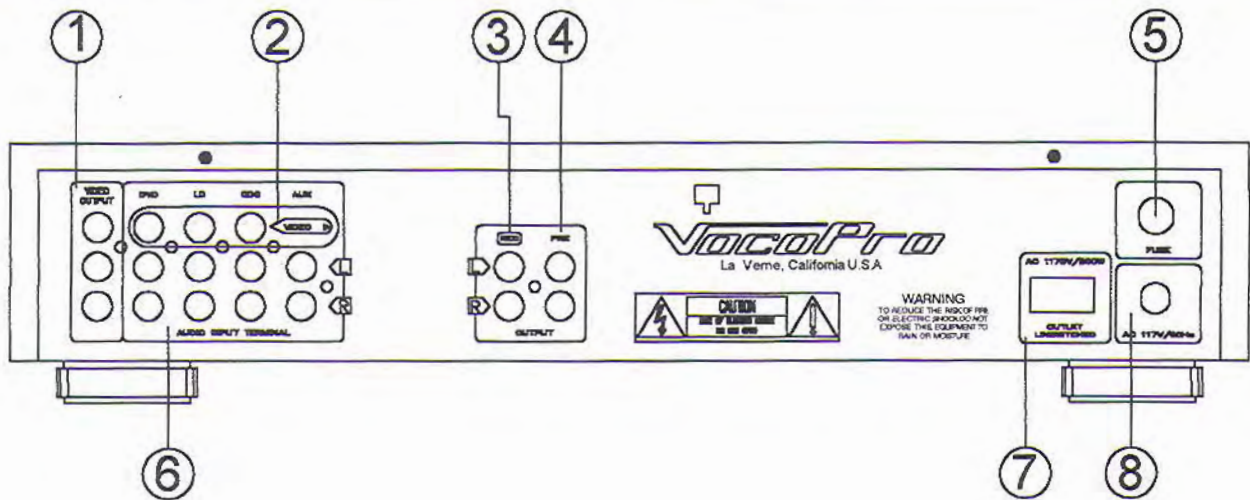
REPEAT: ADJUST THE TIMING OF THE ECHO.

DELAY: ADJUST THE REPETITION INTERVAL OF THE ECHO.

14.MIC. ECHO CONTROL

CONTROL THE DIGITAL ECHO LEVELS FOR MICROPHONES 1,2 AND 3 SIMULTANEOUSLY

REAR PANEL



1.VIDEO OUTPUT JACKS

CONNECT TO THE VIDEO INPUT JACKS OF A TV MONITOR 1,2 OR 3.

2.VIDEO INPUT JACKS

CDG: CONNECT TO THE VIDEO OUTPUT JACKS OF A CDG PLAYER.

LD : CONNECT TO THE VIDEO OUTPUT JACKS OF A LASER DISC PLAYER.

DVD: CONNECT TO THE VIDEO OUTPUT JACKS OF A DVD PLAYER.

3.TAPE / REC. OUTPUT JACKS

CONNECT TO THE REC. (INPUT) JACKS OF A CASSETT DECK. MIC MIXING RECORDING WILL BE POSSIBLE.

4.AUDIO PRE OUT JACKS

CONNECT TO THE AUX / INPUT JACKS OF A POWER AMPLIFIER OR A PRE-AMPLIFIER.

5.FUSE

6.AUDIO INPUT JACKS

CONNECT TO THE AUDIO OUTPUT JACKS OF THE MUSIC SOURCE. (TAPE / AUX, CDG PLAYER, LASER DISC PLAYER, DVD PLAYER....)

7.AC OUTLETS (UNSWITCHED)

TROUBLESHOOTING

INCORRECT OPERATIONS ARE OFTEN MISTAKEN FOR TROUBLE AND MALFUNCTIONS.

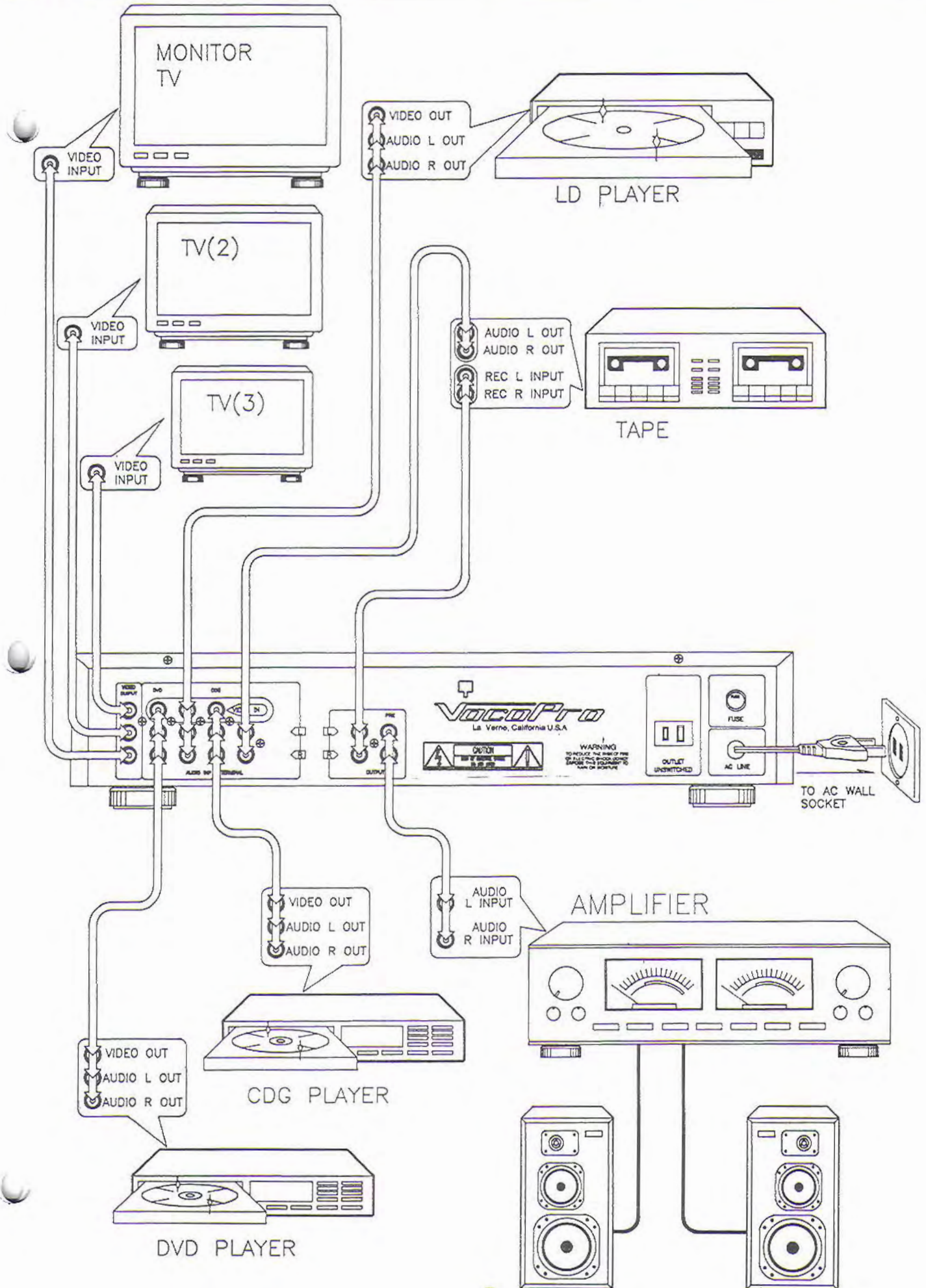
IF YOU THINK THAT THERE IS SOMETHING WRONG WITH THIS COMPONENT, CHECK THE POINTS BELOW. SOMETIMES THE TROUBLE MAY LIE IN ANOTHER COMPONENT. INVESTIGATE THE OTHER COMPONENTS AND ELECTRICAL APPLIANCES BEING USED. IF THE TROUBLE CANNOT BE RECTIFIED EVEN AFTER EXERCISING THE CHECKS LISTED BELOW, ASK YOUR AUTHORIZED SERVICE CENTER OR YOUR DEALER TO CARRY OUT REPAIR WORK.

SYMPTOM	CAUSE	REMEDY
NO SOUND FROM BOTH OR EITHER SPEAKER.	*POWER CORD IS UNPLUGGED. *NO INPUT IS COMING FROM INPUT SELECTOR.	*CONNECT THE POWER CORD. *SET TO THE CORRECT INPUT AND MAKE SURE THE DESIRE INPUT EQUIPMENT IS BEEN PLAY.
MICROPHONE MIXING NOT OPERATE.	*MICROPHONE IS INCOMPLETELY PLUGGED. *MIC VOLUME CONTROL IS SET TO MINIMUM.	*PLUG THE MICROPHONE COMPLETELY. INTO THE TERMINAL. *ADJUST WITH THE MIC VOLUME CONTROL.
REMOTE CONTROL UNIT DOES NOT WORK.	*NO BATTERY IS LOADED IN THE REMOTE CONTROL UNIT OR REMAINING SERVICE LIFE IS LOW. *A FLUORESCENT LAMP IS NEAR THE REMOTE CONTROL SENSOR. *THE DISTANCE TO THE AMPLIFIER IS TOO FAR, OR THE REMOTE CONTROL UNIT IS POINTED AT AN IMPROPER ANGLE. *AN OBSTACLE EXISTS BETWEEN THE REMOTE CONTROL UNIT AND THE AMPLIFIER.	*INSERT NEW BATTERIES. *PLACE THE FLUORESCENT LAMP AWAY FROM THE AMPLIFIER. *USE THE REMOTE CONTROL UNIT WITHIN A RANGE OF APPROXIMATELY 23 FEET (7 M) AND AT AN ANGLE OF APPROXIMATELY 30 DEGREES OR LESS *USE THE REMOTE CONTROL UNIT FROM A DIFFERENT ANGLE. OR REMOVE THE OBSTACLE.

SPECIFICATIONS

AUDIO INPUT (AT 1KHZ)	
MICROPHONE.....	2.5MV / 10K Ω
AUX / CDG / LD / DVD.....	150MV / 50K Ω
AUDIO OUTPUT..... >250MV	
VIDEO	
CDG / LD / DVD.....	1V P-P / 75 Ω
FREQUENCY RESPONSE	
CDG / LD / DVD.....	20HZ - 20KHZ \pm 3db
TONE CONTROL (MIC.)	
BASS.....	\pm 4db (100HZ) \pm 2db
TREBLE.....	\pm 6db (10KHZ) \pm 2db
ECHO DELAY TIME.....	100 MSEC - 200 MSEC
KEY CONTROL RANGE.....	+4 / -4 MUSIC INTERVALS (9 POSITIONS)
SIGNAL TO NOISE RATIO.....	MORE THAN 75db
POWER SUPPLY , OTHERS	
POWER REQUIREMENTS.....	AC 117V , 60HZ
POWER CONSUMPTIONS.....	7 WATT
AC OUTLETS	
UNSWITCHED.....	1 (TOTAL 250W)
DIMENSIONS : (W x D x H).....	430 x 325 x 90 mm
ACCESSORIES	
AUDIO CORDS.....	2
OPERATING INSTRUCTIONS.....	1
REMOTE CONTROL UNIT.....	1
BATTERIES.....	2
WARRANTY CARD.....	1

CONNECTIONS



IMPORTANT SAFEGUARDS

Please read all of the safety and operating instructions before operating this unit. For best result, follow all warnings placed on the unit and adhere to the operating and use instructions. THESE safety and operating instructions should be retained for future reference.

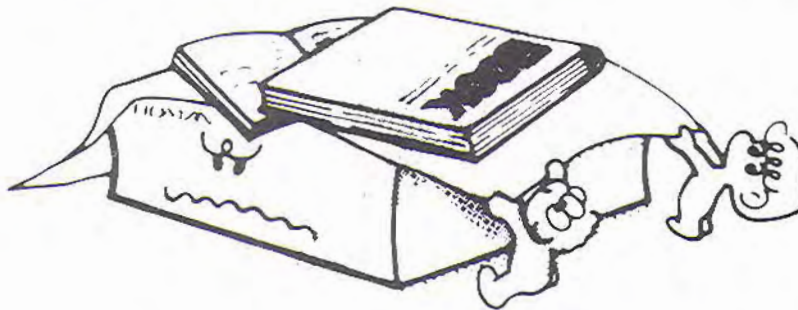
1. **Power source** — The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
2. **Power-cord protection** — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.

Never pull or stretch the cord

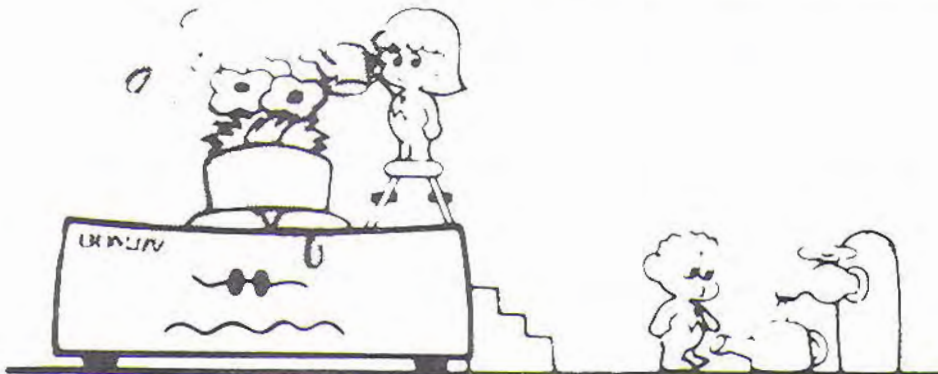


3. **Ventilation** — The unit should be situated so that its location or position does not interfere with its proper ventilation.

To maintain good ventilation, do not put records or a table-cloth on the unit. Place the unit at least 10 cm away from the walls.

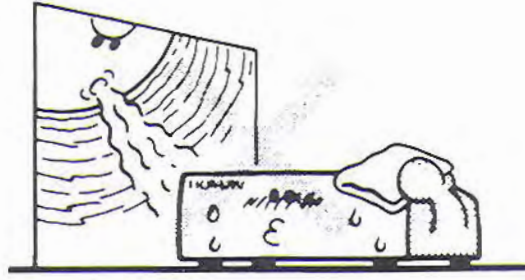


4. **Water and moisture** — The unit should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

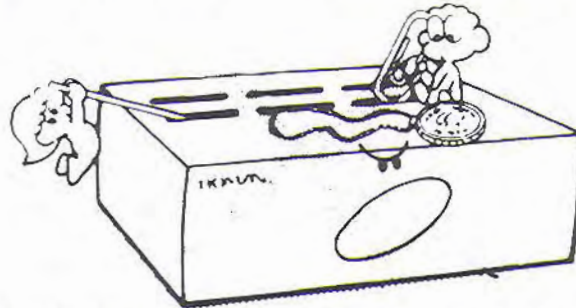


5. **Temperature** — The unit may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).

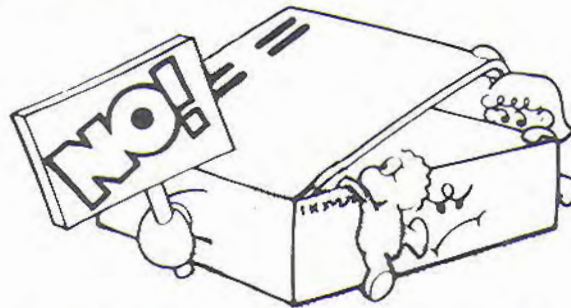
6.Heat — The unit should be situated away from heat sources such as radiators, heat registers, stoves, or other units(including amplifiers) that produce heat.



7.Electric shock — If a metal object, such as a hair pin or a needle, comes into contact with the inside of this unit, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this unit.



8.Enclosure removal — Never remove the enclosure. If the internal parts are touched accidentally, a serious electric shock might occur.



9.Cleaning — Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzine, etc. to clean the cabinet. Use a clean dry cloth.



10.Abnormal smell — If an abnormal smell or smoke is detected, immediately turn the power OFF and pull out the power cord. Contact your dealer or nearest service station.

POWER OFF!

