

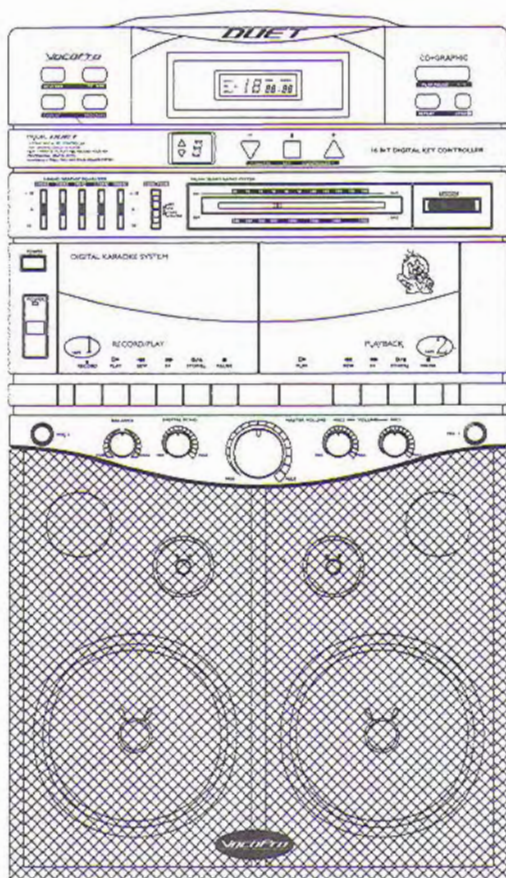
VOCOPRO

CD+GRAPHICS, DUAL CASSETTE, AM/FM KARAOKE SYSTEM W/KEY CONTROLLER

DUET (VP-890)

OWNER'S MANUAL

Please read before using this unit



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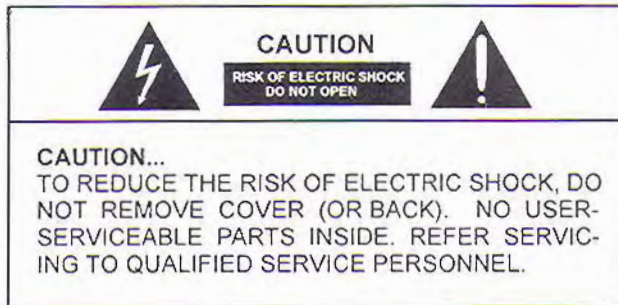
EXPLANATION OF SYMBOLS



This symbol is intended to alert the user of the presence of "uninsulated dangerous voltage" within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



WARNING
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE RE. IF THIS HAPPENS, BE SURE POWER TO THE ELECTRICAL OUTLET IS TURNED OFF BEFORE YOU TOUCH OR UNPLUG THE APPLIANCE.

IMPORTANT SAFEGUARDS

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.



Safety Instructions



Installation

- * Operate the unit only from a power source as indicated on the unit or in the operating instructions.
- * Overloaded AC outlets and extension cords are dangerous and so are frayed cords and broken plugs. Call your service technician for replacement of such cords and plugs.
- * Do not allow anything to rest on, roll over, or pinch the power cord, and do not place the power cord where it is subject to traffic or abuse. This may result in a shock or fire hazard.
- * Audio products are provided with ventilation openings to allow heat generated during operation to be released. If these openings are blocked, heat build-up within the set can cause failure which may result in a fire hazard.

Therefore:

1. Never block the ventilation openings of a unit by placing it on a bed, soft rug, etc.
2. Never place a set in a built-in enclosure unless proper ventilation is provided.
3. Never cover the opening with cloth or other material
4. The unit should not be installed near or over radiators, heat registers, or other sources of heat.

To avoid personal injury:

1. The manufacturer recommends that this unit not be mounted on a wall or ceiling.
2. Carefully follow the operating instructions when making connections.
3. Do not insert tools, hands, or fingers in openings (such as a tape slot), especially if the unit is connected to a power source.

WARNING

Do not turn on your stereo system with the volume at maximum.
This will damage your speakers and void your warranty.

Important Safety Instructions

Getting Your System Ready For Use

Choose an area away from heat. Allow about three(3) inches between the cabinet back and the wall for proper ventilation. place your Karaoke system near an AC outlet supplying common household current (105-120V AC 60Hz).

Do not plug in at this time.

Grounding or Polarization

Your Karaoke system is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.



Water and Moisture

The appliance 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 and the like.

Cleaning

The appliance should be cleaned only as recommended by the manufacturer.

Non-use Periods

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

Object and Liquid Entry

Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings .

Damage Requiring Service

The appliance should be serviced by qualified service personnel when:

- A. The power supply cord or the plug has been damaged.
- B. Objects have fallen, or liquid has been spilled into the appliance.
- C. The appliance has been exposed to rain.
- D. The appliance does not appear to operate normally or exhibits a marked change in performance
- E. The appliance has been dropped; or the enclosure damaged.

Servicing

Do not attempt to service the appliance beyond that which is described in the operating instructions. All other servicing should be referred to qualified service personnel.

Outdoor Antenna Grounding

If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code , ANSI/NFPA NO. 70-1984, provides information with regard to proper grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure1.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE

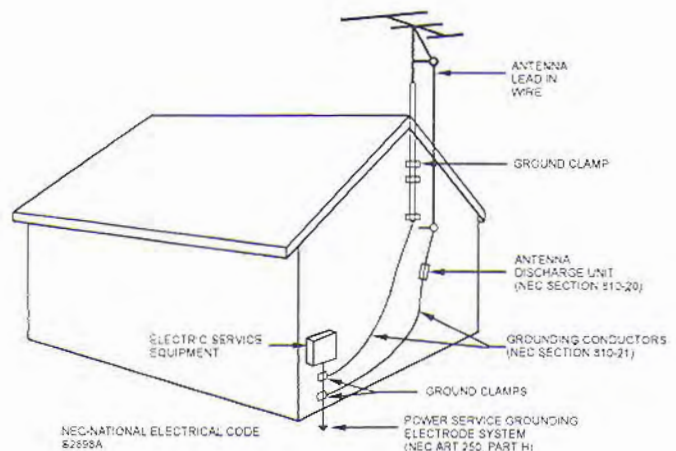


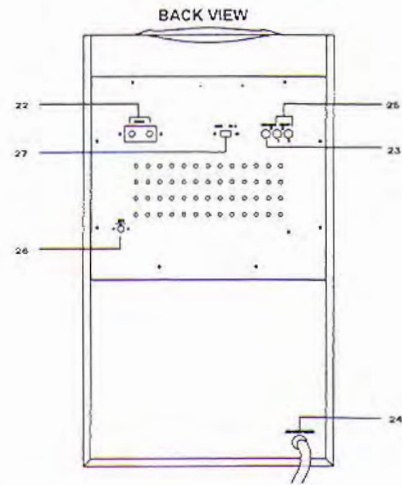
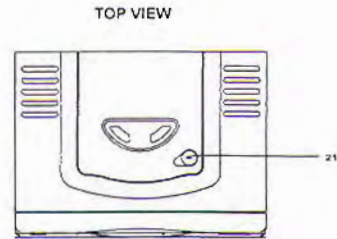
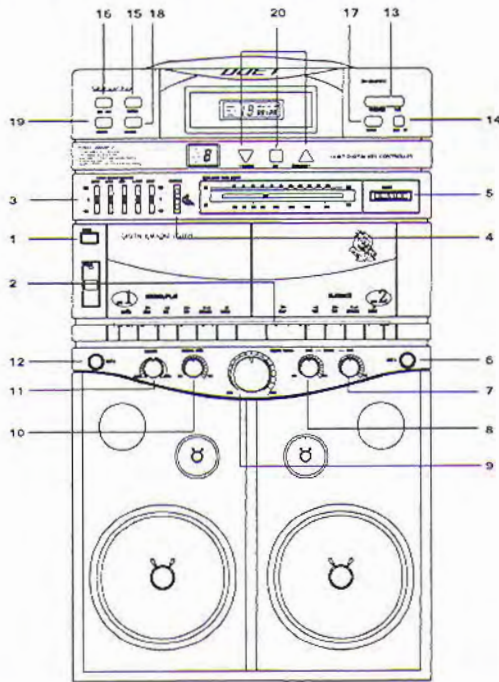
Figure 1

CAUTION: To prevent electric shock do not use this (polarized) plug with an extension cord, Receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

NOTE: DO not connect FM antenna to outside antenna. Please disregard all outdoor antenna references in the important safety instructions.

For FM cable installation, this reminder is provided to call the CATV system installer's attention to Article 820.22 of the NEC. This provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Controls and Functions



1. **POWER** - Press to turn the system on, press again and release to turn the system off.
2. Cassette controls "1" or "2" deck.
RECORD - Press to record. Refer to "Recording Cassettes" (1 deck).
PLAY - Press to play tape. Refer to "Playing cassettes" "1" or "2" deck.
REW/REV - Press to rewind tape.
FF/CUE - Press to rapidly advance tape.
STOP/ EJECT - Press to stop cassette. (Cancels any depressed cassette button except PAUSE.) Press again to open cassette door.
PAUSE - Press to temporarily stop the tape movement in PLAY or RECORD MODE. Press and release to start the tape moving again.
3. **GRAPHIC EQUALIZER** - Adjust these controls to provide the sound quality that you prefer. Refer to "Audio Controls".
4. **FUNCTION SELECTORS** - Select the program sources by sliding knob to choose the desired function.
AM - for AM reception.
FM - for FM reception.
TAPE - for cassette operation.
CD/CDG - for CD operation.
5. **TUNING** - Turn the knob to choose the AM or FM station you want.
6. **MIC 1** - Connect microphone for singing.
7. **MIC 1 VOL** - Adjust the control for microphone 1 desired sound level.
8. **MIC 2 VOL** - Adjust the control for microphone 2 desired sound level.
9. **VOLUME** - Adjust the control for desired volume level.
10. **ECHO** - Adjust the control for desired echo volume level
11. **BALANCE** - Adjust the control for desired music and song balance level.
12. **MIC 2** - Connect the microphone for singing.
13. **PLAY/PAUSE** - Press and release the PLAY/PAUSE button to start a CD playing from track number 1. The LCD track indicator will display "1" and the elapsed time indicating that track number 1 is playing. Press PLAY/PAUSE button to stop for a moment during play, the LCD displays "PAUSE". To resume playing the CD, press the PLAY/PAUSE button again.
14. **STOP** - To stop playing the CD, press the STOP button once. The LCD will display total number of tracks and playing time of the CD.
15. **F.F** - To advance the CD to the beginning of the next track, press and release this button. Continue to hold down this button to fast forward at a fast rate.
F.F - To fast forward the CD while playing, press and hold this button. Sound can be heard at a reduced level in this mode.
16. **REW** - To reverse the CD to the beginning of the last track, press and release the button, the player will skip back to the beginning of the track.

17. **REPEAT** - Press the REPEAT button once and the word "REPEAT ONE" will appear on the CD display. The CD player will repeat the track currently playing until the "STOP" button is pressed. Press the REPEAT button twice and the word "REPEAT ALL" will light on the display. The CD player will repeat playing the disc continuously until the STOP button is pressed.

18. **PROGRAM** - Use this button to program the CD player to play back songs in a pre-selected order. Programming should be done in the STOP mode. (the LCD will display "P 01"), then press SKIP→ or SKIP← button to select desired track and push PROGRAM button again to confirm programming Repeat same steps for as many tracks up to a total of 20.

19. **DISPLAY** - Press DISPLAY button to display the track number that is playing, elapsed time, number of remaining tracks, and duration of disc that is being played.

20. **DIGITAL KEY CONTROLLER** - Raises or lowers the key of the music in half - step increments without changing the tempo. Operate by pushing the desired up or down indicator button while disk is playing, until the desired key is achieved. NOTE : Key Controller is inoperable when AM/FM tuner is on .

21. **OPEN/CLOSE** - Press the OPEN/CLOSE Point for CD door to open the CD compartment . Close CD compartment by pressing this button again.

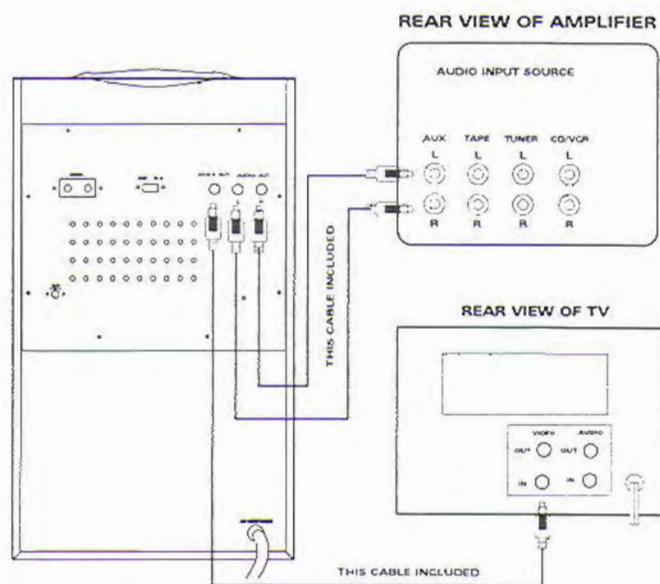
NOTE : Some TV may not have a VIDEO input jack In this case, Use a RF, modulator (sold separately) to connect to your TV.

24. **AC CORD** - Plug AC power cord into 120vAC wall outlet.

25. **AUDIO OUTPUT (PRE-OUTPUT0)** - Connect this jack to the auxiliary input or CD input of your home audio system. The VP-890G can be listened to through your own stereo system.

26. **DC 12V INPUT JACK** - Use this jack only when the 120VAC is not available, Be sure to use a UL, CE approved car adapter or an UL, or CE approved AC/DC adapter.

27. **NTSC/PAL** - NTSC/PAL system select Switch. Switch to NTSC for U,S, TV system. Switch to PAL for european TV system.



CD PREPARATIONS

- * This unit is designed to play CD'S bearing the identification logo. If CDS do not conform to the CD standards, they may not properly play.
- * Fingerprints and dust should be carefully wiped off with a soft cloth. Wipe in a straight motion from the center to the outside of the disc.
- * Never use chemicals such as record cleaning sprays, antistatic sprays or fluids, benzene or thinner to clean compact discs. These chemicals will permanently damage the plastic surface of the disc.
- * Always place the compact disc on the disc tray with the label facing upward. Compact discs can be played on only one side.
- * To remove a disc from its storage case, press down the center of the case and lift the disc out holding it carefully by the edges.
- * Discs should be returned to their cases after use to protect them from dust and scratches.
- * To prevent warping the disc, do not expose it to direct sunlight, high humidity, or high temperatures for extended periods of time.
- * Do not apply paper or write anything on either side of the disc. Sharp writing instruments, or the inks used in some felt-pens, may damage the surfaces of the disc.

CD OR CD+G PLAYER

NOTES:

- * DO not touch the disc tray while player is operating.
- * Never place anything except a compact disc on the disc tray. Foreign objects can damage the unit.
- * Do not apply excessive force to disc tray.
- * Discs must be placed on the disc tray one at a time.

1. Press the POWER switch to ON.
2. Switch the FUNCTION button to CD.
3. Press OPEN/CLOSE point (for Cd door) to open the CD compartment.
4. Place a disc in the compartment with the printed side facing down.
5. Press OPEN/CLOSE point (for CD door), again to close the CD compartment tray. The LCD will display total number of tracks and playing time of the CD.
6. Press PLAY/PAUSE button to start the CD playing from track number 1. The LCD will display "1 " and elapsed time of the track.
7. Adjust the VOLUME, BALANCE, TONE and ECHO control for the best sound.
8. Press STOP at any time to end play.
9. Press the OPEN/CLOSE point (for CD door) to open the compartment , press again to close it.

Temporarily stopping play

Press PLAY/PAUSE in the course of play, press again to resume.

FF▶▶/REW◀◀

Press the SKIP button to select your desired track to played.

Press the PLAY/PAUSE button to start playing. While pressing and holding the FF▶▶/REW◀◀ Button the, system will search at high speed in the forward or reverse direction. When the button is released, normal play will continue.

Press FF▶▶/REW◀◀ Once to skip to the next track, or back to previous tack.

Repeat play

To repeat the track currently playing, press the REPEAT button and word "REPEAT ONE" will appear on the LCD. To repeat all of the tracks, press the REPEAT button twice and the word "REPEAT ALL" will appear on the LCD.

NOTES OF CD OPERATION

1. Using CDG disc and connecting VIDEO jack to the TV, the graphic will appear on the TV.
2. When you push the PLAY button after loading a CD onto the CD compartment tray, the CD compartment tray will be automatically closed and start playing the first track.

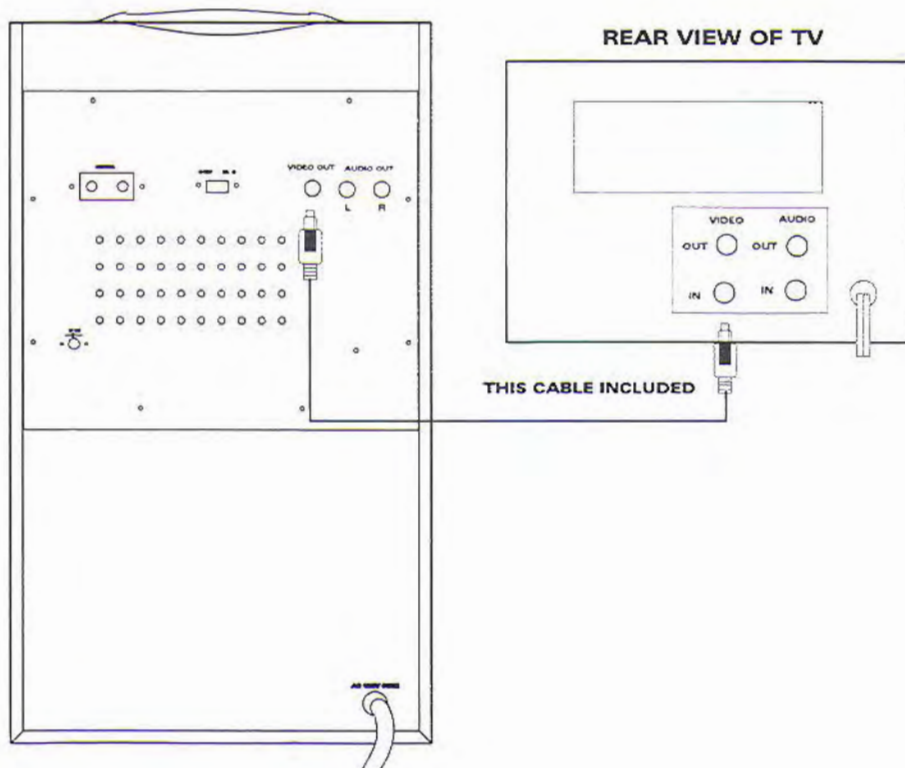
NOTES ON COMPACT DISC:

1. Treat the disc carefully. Handle the disc only by its edges. Never allow your finger to come in contact with the shiny, unprinted side of the disc.
2. Clean the disc periodically with a soft, lint free, dry cloth. Never use detergents or abrasive cleaners to clean the disc. If necessary, a CD cleaning kit may be purchased.
3. When cleaning the disc, do so in straight lines from the center of the disc to the outer edge. Never wipe in circular motions.
4. If during play, the CD skips or gets stuck on a particular section, the disc is probably damaged (scratched, etc.) or dirty.

CONNECTING CD+G SYSTEM TO A TELEVISION

Connecting the video: (see figure below)

1. Connect the included video cable to the video output jack on the back of your VP-890G karaoke system.
 2. Connect the other end of the video cable to the video input jack on the jack of your television.
 3. On your television's remote control (or on the front panel of your TV), press the TV/Video button.
 4. Select CD on the "Function" switch. (Feature#4 on page 4 of this manual).
 5. Turn on the power of the system.
 6. Insert a CD+Graphics karaoke disc into the player and press play. The song lyrics will appear on your television screen.
- NOTE : Some TV may not have a VIDEO input jack. In this case, Use a RF, modulator (sold separately) to connect to your TV.



Audio Controls

Control Settings

Set the GRAPHIC EQUALIZER Controls to 0 midrange), then adjust VOLUME control to a low level.

After choosing the program source you want, adjust the VOLUME and GRAPHIC EQUALIZER controls as follows.

1. Adjust the VOLUME control for the desired listening level.

2. Set the GRAPHIC EQUALIZER controls to match the sound characteristics of your listening room. With each of the five controls of the GRAPHIC EQUALIZER, it is possible to control a narrow, distinct section of the audio band by up to + -10dB. The frequency bands controlled by the side controls have been chosen to give you the best possible control action within the audio spectrum.

100 Hz... Is very useful in enhancing low bass notes (as in organ music, kick drum, etc.) or making corrections when a deficiency in bass exists. Or you can use this to reduce rumble, acoustic feed back, and other low frequency aberrations.

300 Hz... Will allow you to vary the upper bass frequencies. An over-accentrated, upper bass will give a muddy, boom quality to music while the system shy of upper bass will sound hollow and thin.

1 KHz.... Lies in range of frequencies where the ear is most sensitive to tonal balance. This is often called "presence", since adjusting this control brings the vocalist out to the front or back into ensemble.

3.3K Hz... Speaker designers often boost output in this range to effect a quality of presence to the music. Too much energy on the other hand, sounds overbearingly harsh and strident.

10K Hz.... Adjustment affects the brilliance of music with too much boost in energy yielding an unpleasant and piercing quality. You may use this to add little more dimension to the sound or as a very high frequency noise filter.

Using Your Radio

AM or FM -- Press the POWER button on. Slide the function knob to AM or FM. Rotate the tuning knob to the desired program.

Using Your Cassette Player/Recorder

Operating Tips

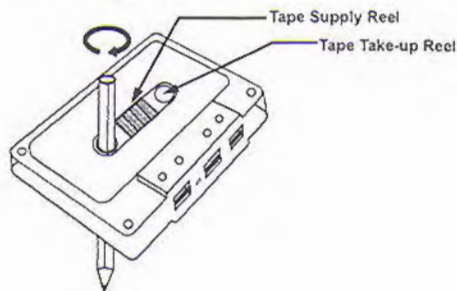
1. High quality tapes will give you better recordings and more listening pleasure. Tapes of the following types are suggested: Low noise, high density, high output or extended range with a play or record time up to 90 minutes.



NOTE: Cassettes with a time of 120 minutes (C120) are not recommended because they contain thinner and longer tapes which are more likely to jam or tangle in the player/recorder.

2. For best results in playing or recording, it is necessary for the head to be clean. Refer to cleaning instructions. Keep cassettes away from excessive heat or cold.

3. If the tape is loose in the cassette, tighten it before putting it in. To do so, put a pencil into the hub and turn it to the right as shown.



4. A leader tape begins each side of a cassette. You cannot play or record on this part of the tape. You have to let the tape run for about five seconds so this leader tape is past the heads.



NOTE: When you start the tape, be sure the TAPE TAKE--UP REEL is running. If the reel is not moving stop the machine at once; if you don't the tape could become tangled in the player/recorder. If this does happen, carefully remove the cassette and correct it as shown above.

NOTE: Power off the unit will remain on until the power button is off (out position).

Playing Cassettes (1 or 2 deck)

1. Press the POWER switch ON.
2. Slide the FUNCTION knob to TAPE.
3. Press the STOP/EJECT button, the cassette door will open.
4. Put the cassette into the holder with the full supply reel to your left, open end down, and gently close the cassette door.
5. Press the PLAY button. The system will play the cassette and shut itself off. To play the other side, press the STOP/EJECT button and remove the cassette. Turn it around so that the supply reel is again on the left and put it back in, close the door and press the PLAY button.

Extended play

Extended listening is possible by using the two cassette decks as follows.

1. Press the POWER switch ON.
2. Slide the FUNCTION knob to TAPE.
3. Load a pre-recorded cassette into both the RECORD/PLAYBACK and the PLAYBACK decks. The full supply reel should be on the left.
4. First, press the PLAY button on the PLAYBACK(2) deck, then press PAUSE and then PLAY on the RECORD/PLAYBACK (1) deck in that order. The PLAYBACK deck will play its cassette first and shut off. Then the RECORD/PLAYBACK deck will play its cassette and shut off.

Recording Cassettes (1 deck)

1. Press the POWER button ON.
2. Choose your recording material by turning the FUNCTION control to AM, FM, or TAPE. You will (through internal connections), record the source you are listening to. The recording level is not affected by the volume or tone controls.
3. Press the STOP/EJECT button on the Record/Play (1) deck; the cassette door will open.

4. Put the cassette into the holder with the full supply reel to your left, open end down, and gently close the cassette door.
5. With a partially recorded tape, use the FAST FORWARD and REWIND features to find your starting point.
6. Remember to advance past the leader when using a new tape.
7. Press the PAUSE button.
8. Press the RECORD button firmly.
9. When you are ready to start your recording, press and release the PAUSE button.
10. The system will record the entire cassette and shut off unless you desire to stop it by pressing the STOP/EJECT or PAUSE button.
11. Press the PAUSE button to stop the tape for a time while you change your recording selection, cue a record or retune a radio station. Press and then release PAUSE when you are ready to continue recording.
12. While you are recording, you may monitor the program by listening to the speakers. Adjust the VOLUME control for your best listening level. It will not affect the record level.

Sync Dubbing

1. Press the Power button ON.
2. Press the STOP/EJECT button; the cassette door will open.
3. Load a blank tape into the RECORD/PLAY(1)deck full supply reel to the left. Gently close the cassette door. FIRST press PAUSE, THEN press RECORD.
4. Load the tape to be copied into the PLAYBACK (2) deck with the full supply reel to the left. Gently close the cassette door.
5. Press the PLAY button on the PLAYBACK (2) deck. The PAUSE button on the RECORD/PLAY(1) deck will release and recording will begin.

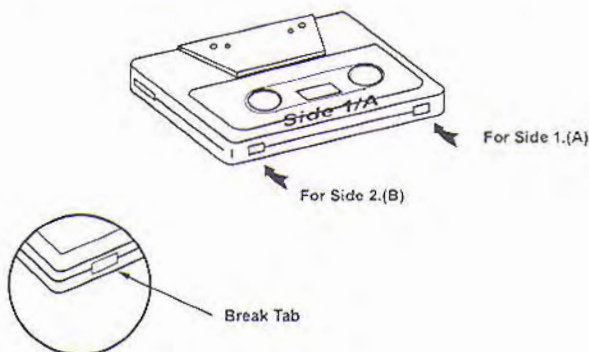
TO perform microphone mixing (karaoke singing along) with tape.

The microphone mixing feature of this unit can be used for singing along with an accompaniment music tape.

1. Slide the FUNCTION knob to TAPE.
2. Play the accompaniment music tape on deck 1 or 2.
3. Adjust the MIC VOL knob for the desired microphone sound volume.
4. Adjust the ECHO knob for the desired echo sound level.
5. Adjust the BALANCE knob to balance sound volumes of the accompaniment music and song.
6. Adjust the VOLUME and GRAPHIC EQUALIZER controls for the desired listening level.

Erase Protection

Every cassette can be protected against accidental erasing of pre-recorded material. On the back of a cassette are two breakout tabs. These must be in place before the RECORD button will depress. If these tabs have been removed, such as on pre-recorded cassette you buy, the RECORD button will not depress. To record using a cassette which has the breakout tabs removed, place a piece of tape over the exposed holes, this will allow the interlocking device to engage



Once you have made a recording, you can prevent an accidental erasing by breaking out and removing the tabs. With side 1 (A) facing you, erasing is prevented by breaking out the tab on the right, and side 2 (B) by the tab on the left (see drawing).

Cleaning



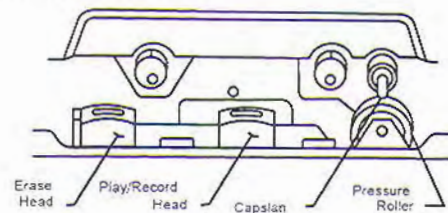
To prevent fire or shock hazard, disconnect your stereo system from the AC power plug when cleaning.

- * The finish on your stereo may be cleaned with a dust cloth and cared for as other furniture. Be careful when cleaning and wiping the plastic parts. Mild cleaners, such as dishwashing detergent, with dampened (not wet) cloth may be used on the front panel.

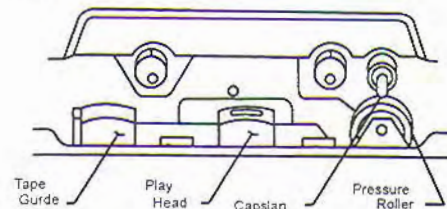
Tape Deck Cleaning

- * To get the best sound from your tapes, the pressure roller, capstan, play/record and erase heads should be cleaned regularly. The build up of iron oxide particles is often severe with inferior tapes and will reduce the performance of the system. After every 10 hours of use, or more often if playback has become poor, clean the play/record and erase heads, capstan and pressure roller. To clean them, use a wipe dry with a soft, clean cloth.

Cassette Record/Playback



Cassette Playback



NOTE: Never use any metal objects on or near the tape head. Do not allow any cleaning material to fall into tape assembly. Do not use carbon tetrachloride as a cleaning agent.

Trouble Shooting

If your stereo system fails to operate, carefully reread the instructions.

Many problem situations are caused by improper use. Listed below are the most common ones.

PROBLEM	POSSIBLE CAUSE	SOLUTION
POWER switched on, but no sound and no light on the POWER LED	Poor AC power plug connection to wall outlet.	Connect AC correctly Old wall-outlets sometimes cause power loss Plug must fit snugly in outlet.
The POWER LED system is on but no sound.	VOLUME control is at "0" position.	Adjust the VOLUME control to a proper sound level.
Poor FM reception	Antenna not placed for best reception.	Move antenna wire around to obtain best reception.
System turned on and PLAY pressed, but no sound from TAPE.	Function set improperly for tape playback.	Slide FUNCTION knob to TAPE.
	PAUSE button pressed in.	Press and release the PAUSE button.
	Unrecorded tape inserted.	Insert recorded tape.
Poor playback sound.	Dirty heads.	Clean heads. See Tape DECK Cleaning.
	Cassette tape is badly stretched.	Replace the cassette.
	Heads have become magnetized.	Degauss the play and record head with a tape head demagnetizer every 100 hours of use.
RECORD button cannot be pressed in.	Cassette without erase protection tabs inserted.	Try another cassette, or place a piece of tape over the breakout tab holes.
poor recording.	Dirty heads.	Clean heads. See Tape Deck Cleaning.
	Heads have become magnetized.	Degauss the play and record head with a tape head demagnetizer every 100 hours of use.
	Microphone defective Microphone cable broken or intermittent.	Replace microphone or microphone cord.
Tape speed is erratic.	Dirty capstan and/or pressure roller.	Clean the capstan and pressure roller.
Cannot copy from TAPE "2" to TAPE "1".	Unrecorded tape inserted into TAPE "2"	Insert recorded tape.
	PLAY/RECORD function selector is in wrong position.	Set to the proper position.
CD PLAYER Does not work properly.	Disc is inserted upside down	Insert disc correctly.
	Disc is dirty.	Wipe clean with soft cloth.
	Disc is scratched.	Use a new disc.
	Disc seriously warped.	Use a new disc.
	A nonstandard disc is inserted	Use only brand name disc.
	Moisture has formed inside the Cd deck.	Wait about 20 to 30 minutes to let it dry.
NO song lyrics Appear on screen	Video cable is not connected properly to the TV	Connect the video cable to the VP-890G VIDEO OUT and to the TV VIDEO IN
	Source selector on TV is not set to VIDEO.	Using your TV Remote to select VIDEO or AUX input.
	TV does not have video line input.	Connect from VIDEO OUT of the VP-890G to the AUX IN of your VCR or Connect to an RF Modulator and then to the TV cable input.

Specifications

Radio Section

Frequency Range.....AM:530-1710KHz
FM:87.5-108MHz

Cassette Section125 Hz -8KHz
Frequency Response0.35%
Wow and Flutter4.75cm/sec

Audio section

OUTPUT Power (THD 10%)40W+40W MAX
20W+20W R.M.S

AC Input PowerAC 120V 60Hz

Output impedance4 Ohms
Graphic Equalizer contrls +/-10dB

Cd player section

Frequency Response

: 20Hz - 20KHz (+/- -3dB)

Signal to Noise Ratio

: 65 dB

Wow and Flutter

: Immeasurable

D.A. Conversion

: 16 - Bit Linear

Number of Programs

: 20 Step Random Access Programming

Sampling System

: 2 Times Oversampling

Digital key control section: 12 steps in half - step increment..

Speakers section: Stereo two way four speaker system with
two 4" "woofer and two" 1/4" tweeter.