OPERATING INSTRUCTIONS

COMPUTER VIDEO & MUSIC PLAYER ACS-901K

DAEWOO

INTRODUCTION

Thank you for buying Our ACS-901K, a computer-aided Video Music Player.
Please read these Operating Instructions Carefully before operating machine to
ensure proper use and optimum enjoyment.
Please keep these instructions in a safe place for future reference.

FEATURES

The Highest Quality of Sound

The ACS-901K has incorporated the latest and highest quality technology
for the reproduction of sound. This is accomplished by building the "ROLAND
Company's Sound Canvas" into our ACS-901K machines. You will enjoy
the finest musical accompaniment AND clear sound quality.

Various Menu and Convenient Functions

THE MELODY FUNCTION : our musical accompaniment offers three choices
for the melody line of music. It can be "ON", "OFF", or "ON VERY LOW" All
at the touch of one button.
THE KEY CHANGE FUNCTION : each song is recorded in a certain key.
By simply adjusting the transpose buttons you can change the song to the
proper key for you.
THE TEMPO FUNCTION : each song is recorded at the same tempo as the
recording artist. If you would like to change the tempo to suit yourself, simply
adjust the tempo buttons.
SCORE ON / OFF : By menu selection you may turn on or off the scoring of
each singer by the machine.(This is used as a contest for fun only by some
singers.)

CONTENTS

Explanation of Graphical Symbols

The lighting flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to 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.

SA1965

The exclamation point within an equilateral triangle is intened to alert the user to the presence of important operating and maintenance(servicing) instructions in the literature acco accompanying the appliance.

SA1966

"Warning"
To reduce the risk of fire or electric shock,
Do not expose this appliance to rain or moisture.

CAUTIONS FOR USE

IMPORTANT SAFETY INSTRUCTIONS

1) All the safety and operating instructions should be read before the product is operated.

2) The safety and operating instructions should be retained for future reference.

3) All warning on the product and in the operating instructions should be adhered to.

4) All operating and use instructions should be followed.

5) Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6) Do not use attachments not recommended by the product manufacturer as they may cause hazards.

7) Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub ; in a wet basement ; or near a swimming pool ; and the like.

8) Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessary recommended by the manufacturer.

9) A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

10) Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11) This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12) This product may be 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 to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

13) Power supply codes should be routed so that they are not likely to be worked 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 product.

14) For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

CAUTIONS FOR USE

15) Do not overload wall outlets, extension cords, or integral convenience receptacles as this result in a risk of fire or electric shock.

16) Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

17) Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

18) Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions :

a) When the power-supply cord or plug is damaged.

b) If liquid has been spilled, or objects have fallen into the product

c) if the product has been exposed to rain or water.

d) If the product does not operate normally by following the operating instructions.
Adjust only those controls that are covered by the operating instruction as an improper adjustment of other controls may result in damage and will often require extensive work by a qulified technician to restore the product to its normal operation.

e) If the product has been dropped or damaged in any way.

f) When the product exhibits a distinct change in performance-this indicates a need for service.

19) When replacement parts are required, be sure the service technician has used replacement parts specified by manufacturer or have the same characteristics as the original part.
Unauthorized substitutions may result in fire, electric shock, or other hazards.

20) Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

21) The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce hest.

Cautions for handling
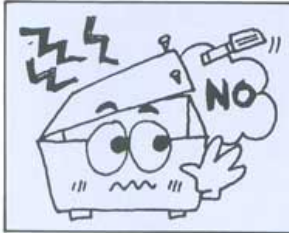
Do Not Touch the inside of the ACS-901K

Do not attempt to open the cabinet. Touching internal parts is very dangerous and may cause an electrical shock.
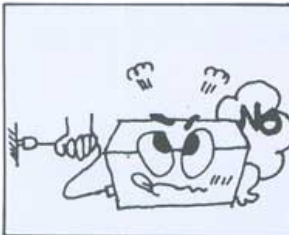
Keep small Foreign Objects away from your machine.

Never insert hair pins, coins, or other small metal items inside the machine. Be careful of small children doing so. These objects could cause shock or fire.

Wet Hands are Dangerous

Do not handle this or any electrical device with wet hands. There is danger of electrical shock.

Use Power Cable Wisely.

To remove the Power Cable from the AC outlet, always hold it by the plug, not the cable. Otherwise it may cause a short circuit or disconnection.

In Case of Odor

If the unit ever smells like excessively hot electrical wiring, disconnect the plug from the outlet and report to your dealer or Sales Agent concerned.

Cleaning

Wipe the cabinet with a clean dry cloth. Never use any flammable or otherwise hazardous cleaning agents.

Cautions for Placement
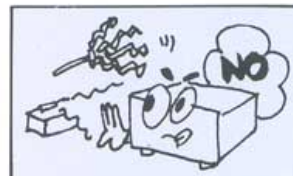
Do Not place the ACS-901K

Where it is exposed to Direct Sunlight.

Where there is excessive fluctuation in temperature.

Near Heating or Cooling equipment.

Where there is high humidity or excessive dust.

Where there is excessive vibration

Do Not place any water containers or a vase on the top of the unit.

Do not connect the Power cable to the AC outlet before completing all system connections otherwise it may cause damage.
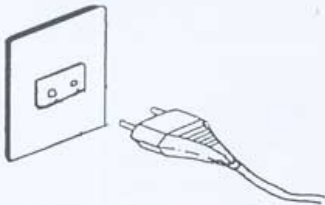
Do Not Obstruct the unit's air vents.

HOW TO SET VOLTAGE(AC ADAPTOR)

Be sure to set the Voltage
Selector on the AC Adaptor to
the voltage of the AC Power
Source.

NOTE FIXED AC 230V/50HZ

AC Adaptor

AC Adaptor

SUPPLIED ACCESSORIES

❶ Manual of Operating Instruction
❷ Two Audio Cables
❸ Remote Control
❹ Two Batteries for Remote Control
❺ Song List Book
❻ AC Adaptor

FRONT VIEW

COMPUTER VIDEO & MUSIC PLAYER ACS-901K DAEWOO
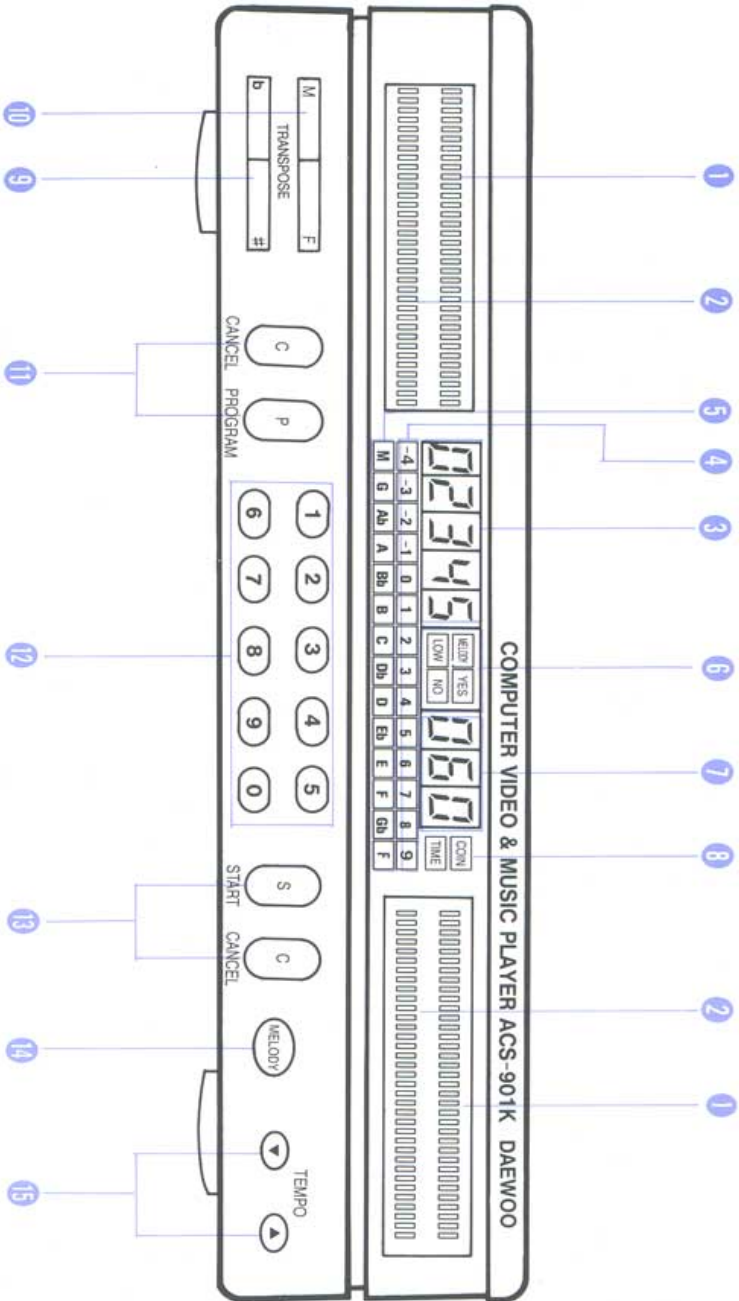
① Microphone Volume Level Meter
② Accompaniment Volume Level Meter
③ Song Selection Number Indication
④ Speed(Tempo) Indication
⑤ Key Buttons
⑥ Melody Volume Indication
⑦ Coins, Time Indication
⑧ Coin or Time System Selection Buttons
⑨ Key Control Buttons
⑩ Male or Female Tone Selection Buttons
⑪ Program, Cancel Buttons
⑫ Song Selection Buttons
⑬ Start, Cancel Buttons
⑭ Melody Control Button
⑮ Tempo Control Buttons

BACK VIEW

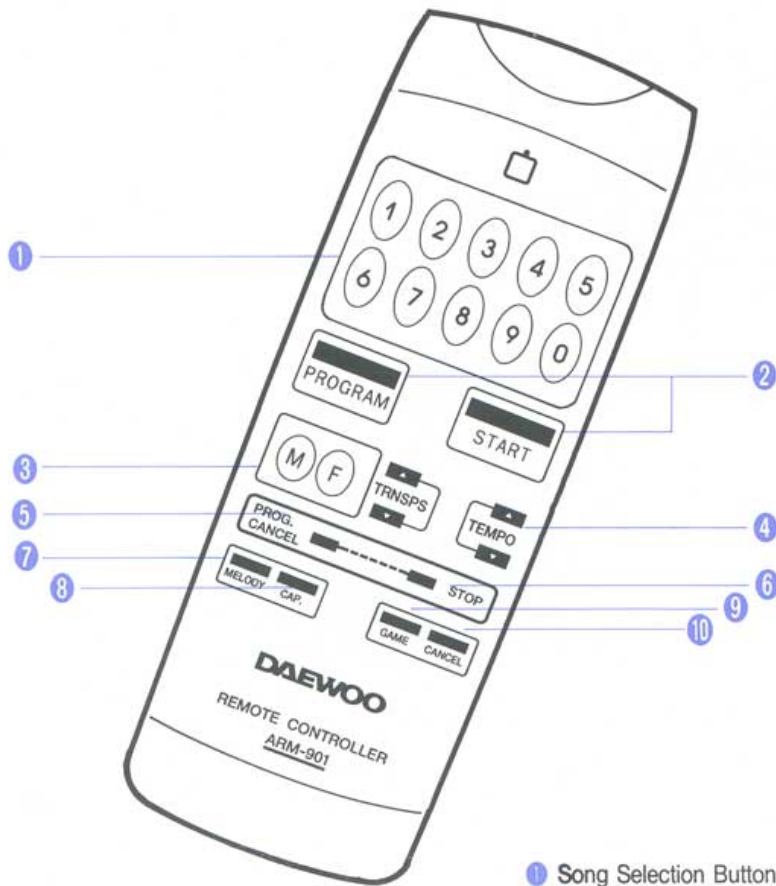| Video		Audio	Mic
1 ○ ○ 1		1 ○	1 ○
2 ○ ○ 2		2 ○	2 ○
Input Output		Output	Output

Mic Input: 1, 2

Beat Control

Remote Control

External Input

Lighting Score

External Instrument

Score Level

FUSE

Song's Cartridge

① VIDEO IN Socket
② VIDEO OUT Socket
③ AUDIO OUT Socket
④ Microphone OUT Socket
⑤ Microphone IN Socket
⑥ Beat Control Connector
   Not used for consumers.
⑦ Wired Remote Control Connector
   Not used for consumers.
⑧ External Input Connector
   (Coin Machine and Noraebang
   Controller-Computer Connection Socket)

⑨ Lighting / Score Control Function
   (Lighting Control Out and Score Signal Out Socket)
⑩ Drum partner connector
⑪ Score Control Level
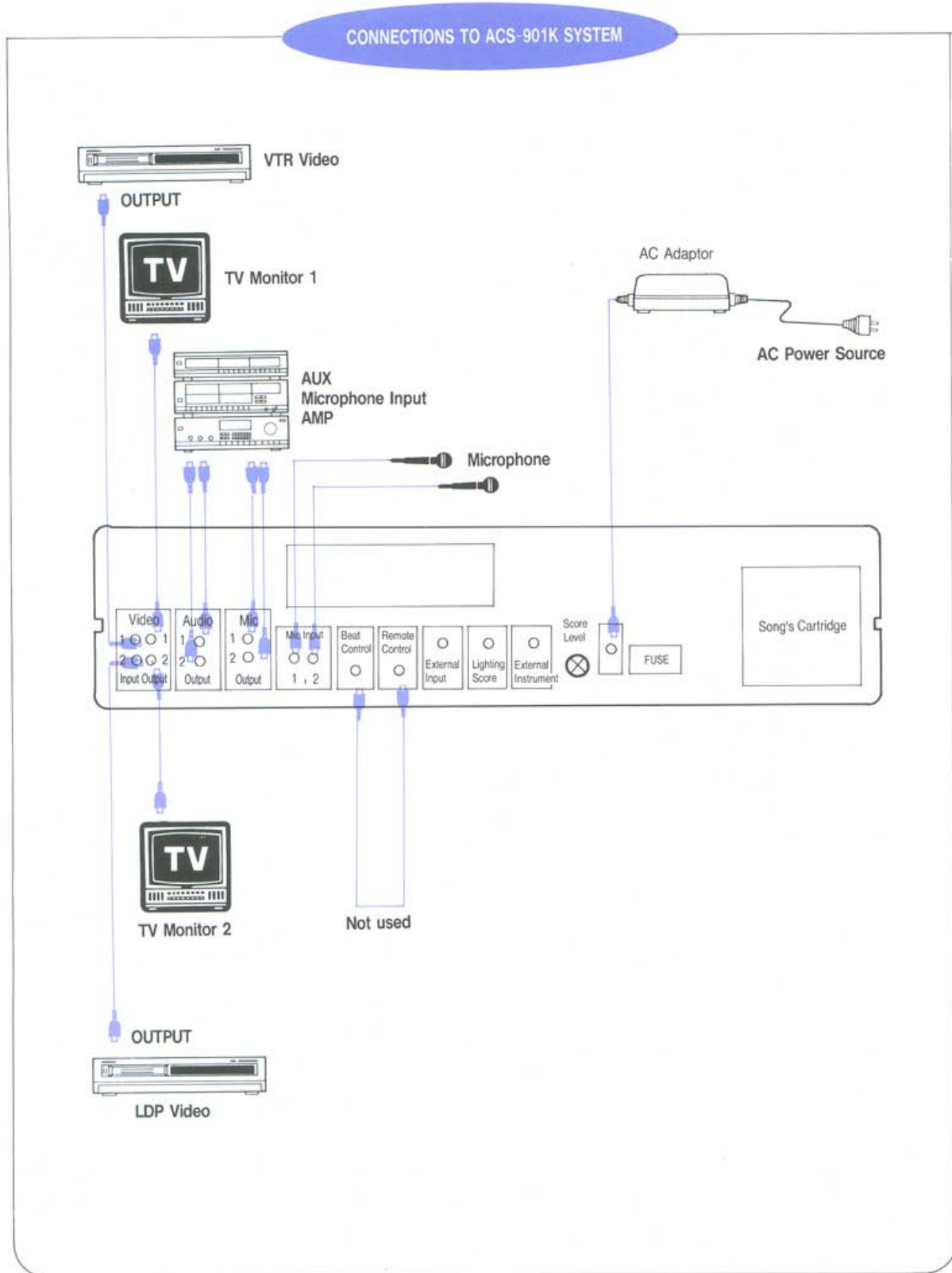⑫ Power Input Socket
⑬ FUSE
⑭ Additional Song Insertion Function

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1 **Song** Selection Buttons
2 Program Start Buttons
3 Male, Female Tone Control Buttons
4 Tempo control Buttons
5 Program Cancel Button
6 Start Cancel Button
7 Melody Control Button
8 Lyrics On/Off Function Button
9 Game Function Button
10 Game Cancel Button

HOW TO CONNECT SYSTEM

VTR Video

OUTPUT

TV Monitor 1

AC Adaptor

AC Power Source

AUX
Microphone Input
AMP

Microphone

Video		Audio		Mic		Mic Input	Beat Control	Remote Control	External Input	Lighting Score	External Instrument	Score Level	FUSE	Song's Cartridge
1	1	1		1										
2	2	2		2		1 , 2								
Input	Output	Output		Output										

TV Monitor 2

Not used

OUTPUT

LDP Video

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MAIN FUNCTIONS & OPERATING INSTRUCTIONS

1. Song Selection Function

Select the desired song from the song list. Simply enter the corresponding number with the number keys on the unit, or on the key pad of the remote control. Then press "START". Your selection will begin immediately.

2. Program Function(Preprogram up to 15 songs for playback)

(1) Select the first song you want to preprogram from the song list and enter the corresponding number exactly as in "SONG SELECTION" above. Do not press "start".

- As an EXAMPLE we select #1234 The First Noel
  Notice that the screen displays [01234] D THE FIRST NOEL.

[01234] D THE FIRST NOEL

(2) Press the PROGRAM button

- This song is now reserved as part of your program and its unmber is displayed in the upper left hand corner. The upper right hand corner displays R : 1 indicating that only one song is reserved

number of songs reserved — 01234   R : 1

(3) Select another song for preprogramming as before.

- As an EXAMPLE we select #1235 Five foot two eyes of blye.
  Notice that the screen displays [01235] C FIVE FOOT TWO EYE~.
  The letter preceding the song title indicates the key that song is recorded in. If you want to change that key before we even program the selection, simply press the TRANSPOSE keys to make the desired change. When the display indicates the key you want, then···.

[01235]
C FIVE FOOT TWO EYES

number of songs reserved — 01234 01235   R : 2

(4) Press the PROGRAM button

- This song is now reserved as part of your program(in your key) and its number is displayed in the upper left hand corner. The upper right hand corner displays R : 2 indicating that two songs are now reserved
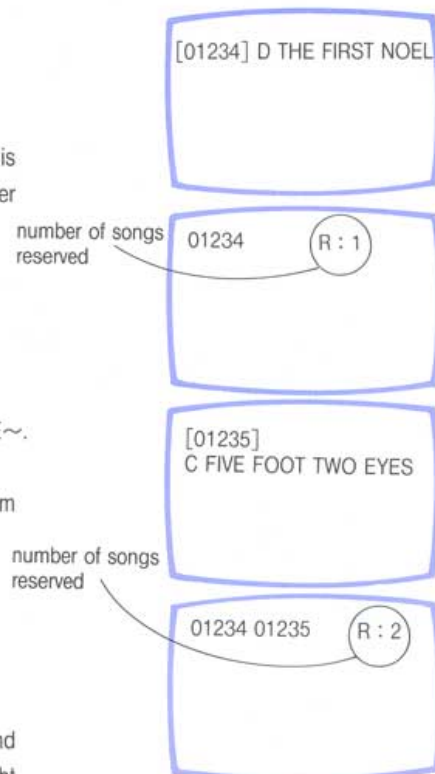
NOTE	up to 15 songs may be preprogrammed by repeating the steps listed above. The "R" will display the exact number of songs reserved. The song numbers in the upper left hand of the screen will only display the first 4 song numbers, or after the first song is played, the next 4 songs reserved.(and so on)

MAIN FUNCTIONS & OPERATING INSTRUCTIONS

3. Program Cancel Function

To cancel a song already reserved in your preprogramming

- As an EXAMPLE if we had 6 songs preprogrammed 01234 01235 01236 01237 01238 01239 and we wanted to cancel #01235 from our list.

(1) Press the numbers 1235. When the song is displayed on screen just as before, Press the CANCEL button next to the Program button. You will notice the list displayed will now Look like this : 01234   01236 01237 01238 01239(leaving a blank space where 01235 used to be) You will also notice that the R : 6 that was displayed in the upper right hand corner is now changed to R : 5.

(2) Press the same CANCEL button again.

- You will notice the list displayed will Look like this : 01234 01236 01237 01238 01239

(3) These steps may be repeated to cancel any or all songs already preprogrammed.

4. Program Change Function

To replace a preprogrammed song with another song to play in the same order as the same as the first song was scheduled to play.

- As an EXAMPLE instead of simply canceling #1235 from the 6 preprogrammed songs as shown above, we will replace #1235 with #1233

(1) Repeat step #1 above exactly. The display on screen will do exactly as before.(see SEC. 3 #1)

(2) Press the numbers 1233

- The screen will display [01233] M Eb   A FIRE I CAN'T P~.

(3) Now press the PROGRAM button

- The screen will now Look like this : 01234 01233 01236 01237   R : 6

You have removed the song "Five foot two Eyes of Blue" and replaced it with the song "A Fire I Can't Put Out"

NOTE	The letter "M" or "F" preceding the key signature is suggesting that this key is best suited for a Male or Female voice.

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5. Melody Control Function

Each music selection is recorded with the melody line available. Some people want to hear this melody line to help them when they are singing. Others prefer not to hear the melody line at all. These people want strictly back up music to sing with. The ACS-901K can do both. In fact it will also allow for the melody to be played very softly as a third option.

SIMPLY TOUCH THE MELODY BUTTON

When the ACS-901K is first turned on you will notice in the center area of the LED display the word "MELODY" followed by the word "YES", this indicates that melody line is programmed to play at regular volume with the rest of the music. If you simply touch the "MELODY BUTTON" once, instead of "YES" being displayed, the word "LOW" will be displayed just below the word "MELODY". This indicates that the melody line will be played, but very softly. If you simply touch the "MELODY BUTTON" again the word "ON" will be displayed, and no melody will be played as such. There wil be only back up music. One more touch will return you to "YES".

6. Key Control Function

The "TRANSPOSE" buttons are used as key control. You may adjust the key that a song is played in either during the song at any time.(the sound of music as it changes key while playing may be briefly unpleasant) or while the song title is displayed on top of the screen followed by the key that the song is recorded in.(This type of display is shown just after entering the song selection number before you select "START" or "PROGRAM") BY simply pressing either the[♯] or the [b] the key signature displayed will change one step for each time you press the button. There is also a LED read out near the bottom center of the LED display area that shows the key that the current song is playing in. As you select the [♯] or the ⟨b⟩ keys that display will show what key you are changing to. The steps for key change are as follows :

G	Ab	A	Bb	B	C	Db	D	Eb	E	F	Gb

7. Male or Female Transposing

When a song is recorded by a woman and a man is wanting to sing that selection he may find that by simply selecting the "M" button in the "TRANSPOSE" area the key will change to a better key for a man to sing it. Or of course the same applies to a song recorded by a man and a woman wants to sing it. She would simply press the "F" button and it will change to a better key for a woman.

8. Tempo Control Function

For controlling the tempo of accompaniment.

• **Steps**   **Standard**

Slow	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	Fast

• Adjusting to the fast tempo when press the Tempo ▲ Button,
  and to the slow when press the Tempo ▼ Button, (Increase or decrease by about 2% at each press)

9. External Input Sockets

For connections to Coin Machine or Noraebang Controller(Computer Controller)

• External Input Sockets(Refer to the Model ACS-901K(BACK VIEW)
• to the Coin Socket : connection to Coin Machine
• to communication ⊕ ① to ⊖ socket : connec tion to Noraebang
  Controller
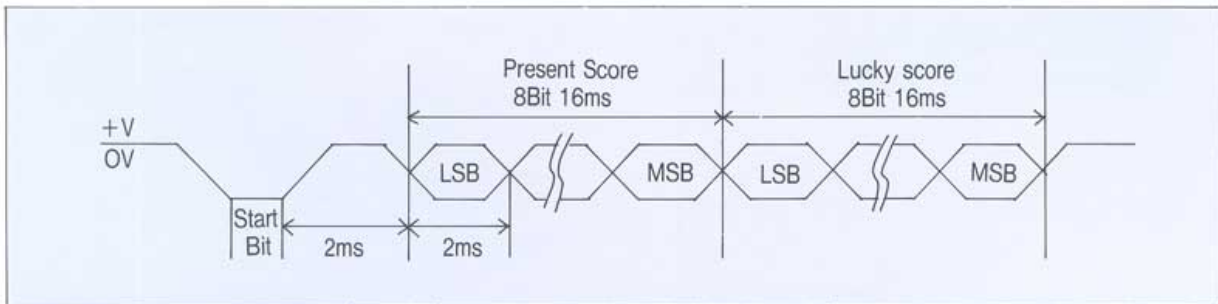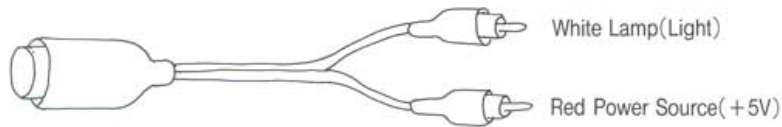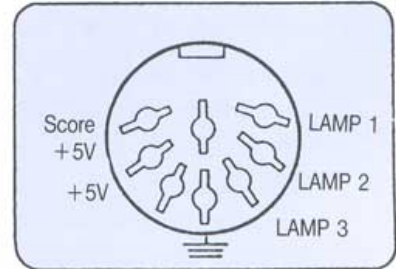 (Computer Comtroller)
• How to connect 5 Pin Dinjack

+12V

③ ①
⑤ ②④ ⊕
coin ⊖
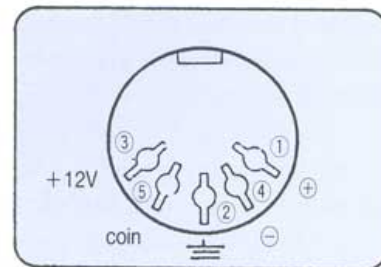
Main connector on Rear panel

Black coin
Green GND
White+12V

No Use
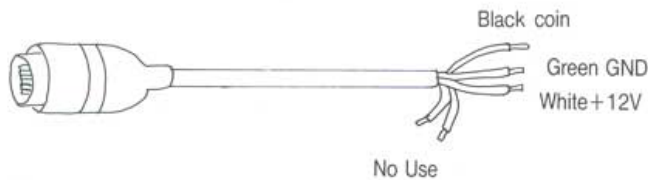
10. Lamp / Score Control Function

For adjusting the volume of fanfare according to the score.

- Lingting / Score Control Function(Refer to MP-9400 Rear Panel)
- LAMP 1 : Control Signal Output the rhythm of the accompaniment
- LAMP 2 : Control Signal Output while singing
- LAMP 3 : Control Signal Output while playing fanfare, due to the high score.

Score +5V
+5V
LAMP 1
LAMP 2
LAMP 3

White Lamp(Light)

Red Power Source(+5V)

Present Score
8Bit 16ms

Lucky score
8Bit 16ms

+V
OV

LSB   MSB   LSB   MSB

Start
Bit   2ms   2ms

- Score Socker : When finishing a song, Output of the Present Score and the Lucky Score 8Bit each at the form above.

11. Addition of New Songs

Please refer to page 10 of this manual to identify the "SONG'S CARTRIDGE" This is simply a compartment that opens easily. Inside you will see removable circuit boards. Each circuit board has two little white latches, One latch is at the top of each board and the other is at the bottom of that board. These latches simply pull outward with a gentle lifting motion on each latch at the same time, and the circuit board is released to slide out of the machine. Each circuit board has several slots or spaces for an "I / C" or "memory chip" to be placed.

Simply line up the prongs on your new "song memory chip" with the holes on the circuit board and gently push them together until they fit as one. DO NOT FORCE.

If the holes do not line up properly with the prongs on your new "song memory chip" then try another circuit board. There are circuit boards for chips that hold 30 to 50 songs and boards for chips that hold up to 500 songs. These different size chips are not interchangeable on the same board.

Song's Cartridge
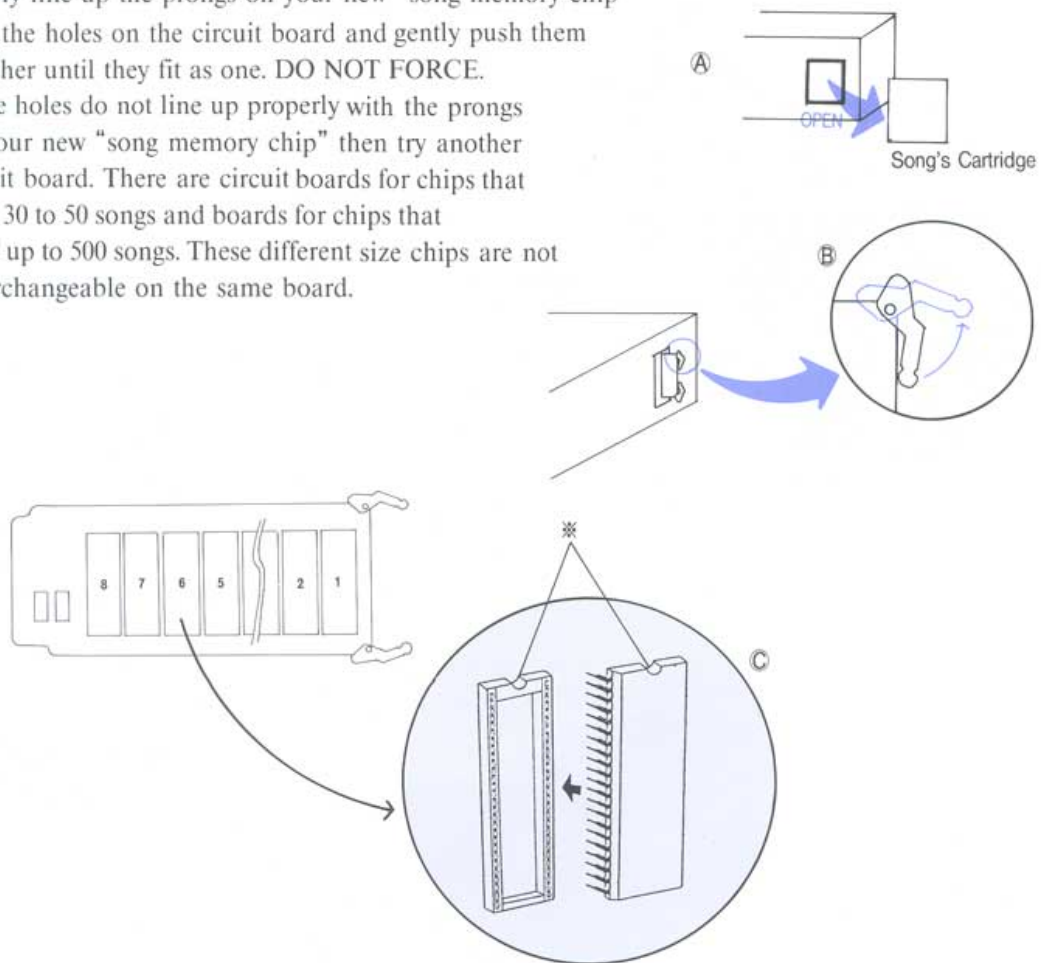
SPECIAL FUNCTIONS

1. How to Control Special Functions

1) Press both "TEMPO" buttons at the same time on ACS-901K
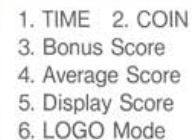2) Press the "START" button on ACS-901K

⟨Menu 1⟩

```
1. SET UP MODE
2. SHOW UP THE
   SELLING
3. END
```

2. Operating the Set Up Functions

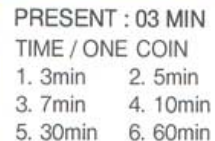Follow steps 1) and 2) exactly as we did above. When the menu is displayed, select number 1.

1) To choose a given amount of time per coin(If coin box is used) select number 1. The "TIME ONE COIN" menu will be displayed.

   as an EXAMPLE to set up for 3 minutes per coin select number 1 your selection will be displayed for a few seconds, then the set up menu will be displayed again.
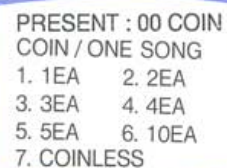
⟨Setup Menu⟩

```
1. TIME   2. COIN
3. Bonus Score
4. Average Score
5. Display Score
6. LOGO Mode
```

```
PRESENT : 03 MIN
TIME / ONE COIN
1. 3min    2. 5min
3. 7min    4. 10min
5. 30min   6. 60min
```

2) To select a number of coins per song selection or TO SELECT "COIN" select number 2. The "COIN ONE SONG" munu will be displayed.

   as an EXAMPLE to set up for one coin per song select number 1 your selection will be displayed for a few seconds the set up menu will be displayed again.

```
PRESENT : 00 COIN
COIN / ONE SONG
1. 1EA     2. 2EA
3. 3EA     4. 4EA
5. 5EA     6. 10EA
7. COINLESS
```

3) SETTING UP THE BONUS SCORE(for coin operated applications only)

This function will allow a singer on a coin operated machine to win or earn FREE time or a FREE song depending on the machine being set up for time or coins per song basis.
FROM THE "SET UP" MENU, SELECT NUMBER 3–The BONUS SCORE MENU will be displayed.

as an EXAMPLE to select a bonus score of "85" simply press the #2. Your selection will be displayed for a few seconds, then the "SEP UP" menu will be displayed again.

```
PRESENT : 99 SCORE
1. BONVSLESS
2. 85 SCORE
3. 90 SCORE
4. 95 SCORE
5. 99 SCORE
```

4) SETTING UP THE "AVERAGE SCORE" FOR A SONG

This function will tell the machine that an average singer should receive the "AVERAGE SCORE" that you select here. You can set this high so that almost everyone gets a "high" score, or you may set it as low as "60" so that only GOOD singers get the higher scores. FROM THE "SET UP" MENU SELECT NUMBER 4. The "AVERAGE SCORE" MENU will be displayed.

as an EXAMPLE to select "60" as the score for an average singer simply press the number 1. Your selection will be displayed for a few seconds, then the "SET UP"" menu will be displayed again.

```
PRESENT : 90 SCORE
1. 60      2. 65
3. 70      4. 75
5. 80      6. 85
7. 90      8. 95
```

5) SETTING UP THE "DISPLAY SCORE"

This function will allow you control over what scores are displayed. You may elect to have NO SCORES displayed, or only the scores over the level you select here may be displayed. FROM THE "SET UP" MENU SELECT NUMBER 5. The "DISPLAY SCORE" MENU will be displayed.

as an EXAMPLE to select "50" as the lowest score to be displayed simply select number 4. Your selection will be displayed for a few seconds, then the "SET UP" menu will be displayed again.

```
PRESENT : 60 SCORE
1. 0       2. 10
3. 30      4. 50
5. 60      7. 70
```

6) SETTING UP THE "LOGO MODE"

This function allows you to select an "ON" or "OFF" mode for the DAEWOO When "ON" these logos will move across the screen when there is nothing else going on. When "OFF" there will be no logos or even "SELECT SONG" messages on screen at any time. FROM THE "SET UP" MENU SELECT NUMBER 6. The "LOGO MODE" MENU will be displayed.

as an EXAMPLE to select "LOGO DISPLAY"(logo will be on) simply select number 2. Your selection will be displayed for a few seconds, then the "SET UP" menu will be displayed again.

```
PRESENT : LOGO DISPLAY
1. LOGOLESS
2. LOGO DISPLAY
```

3. **"SHOW UP THE SELLING"** This means DISPLAY SALES FIGURES.

When you select number 2 from the main menu the screen will display two figures. The first is a TOTAL SELLING figure indicating the total revenue this machine has recorded. This figure will be ongoing always adding. "TODAY SELLING" to the ongoing total sales when the machine is turned off.

TROUBLE SHOOTING

When there is no sound or you think there is something wrong with the Player, before requesting service, check the following points once again. If the problem still cannot be solved, consult your dealer.

	Symptom	Cause	Remedy
Body	The power doesn't turn on.	AC Power Cable is not connected to the outlet and Adaptor not to the body. Fuse is cut off.	Connect the Cable to the outlet and Adaptor to the body. Check the fuse and change, if necessary.
	The picture is not produced.	Video OUT Connector is not connected to Video In Connector of the TV set or Monitor.	Check the connection.
	The sound of accompaniment is not produced.	Audio Out Socket of the body is not connected to Audio In Socket of the TV set or Audio system. Main Volume is set on the minimum.	Check the connection. Adjust the volume.
	When pressing buttons, functions do not work only with buzz sound.	Without the specified operating, functions do not work.	Try to do once again according to the order in operating instructions.
	Noisy sound is produced.	Input signal Level of Microphone echo repeat is too high.	Adjust the echo repeat volume(No. 35) located at the lower part.
	Others	External severe noisy sound.	Turn off the Power, then turn it on again after a minute.

	Symptom	Cause	Remedy
Remote Control	The remote control does not work.	Batteries are exhausted. It is used far from the machine or out of the correct angle.	Change to new batteries. Be careful when using.

SPECIFICATIONS OF ACS-901K

	ITEM	SPECIFICATION
1	MODEL NAME	ACS-901K
2	Standard voltage	AC 230V / 50HZ (Adaptor)
3	Standard power consumption	20W
4	Body Size	420×320×113
5	MAXIMUM NUMBER OF SONG	65,000 SONGS
6	WEIGHT	8kg
7	VIDEO INPUT	$1V_{PP}$ 75Ω
8	VIDEO OUTPUT	$1V_{PP}$ 75Ω
9	AUDIO OUTPUT	$1V_{ms}$