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**CASIO.**

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4,371,923 4,896,260 4,942,516

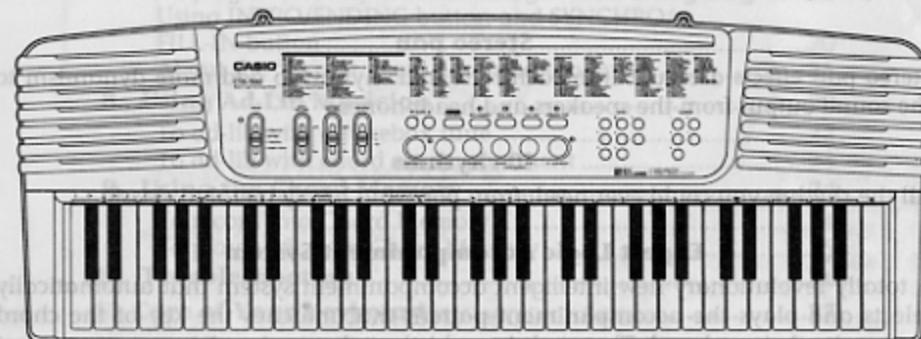
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CTK500ES-2

# CTK-500

## ELECTRONIC MUSICAL INSTRUMENT INSTRUMENTO MUSICAL ELECTRONICO

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● Positive power switch: When you turn on power, the power indicator will light up. When you turn off power, the power indicator will go out.

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CTK500ES-2

**CASIO.**



マニュアル室サンプル

# CTK-500

ELECTRONIC MUSICAL INSTRUMENT

## Main Features

### Jukebox Function

Your own private "jukebox" pre-programmed with 40 tunes, ranging from established favorites to CASIO originals. Playback tunes and see how it uses the various accompaniments, fill-ins and endings available with the CTK-500. Then see if you can play the same tunes yourself!

### Ad-Lib Musician Function

Play polished ad-libs with the greatest of ease! This innovative function adjusts the keyboard so that any key you play matches the accompaniment pattern. You can use the Ad-Lib function to play along with the Auto-Accompaniment or the playback using the Jukebox function.

### 120 built-in tones

Outstandingly realistic tones from basic piano to just about any other sound imaginable. Play tones alone in the Solo mode, or mix and match them with the Duo mode (keyboard split between two tones) and Ensemble mode (two tones mixed).

### Reverb effects

Take your pick between two different reverbs.

### Stereo pan

Stereo pan effects are built into each tone and rhythm to add more dynamism to the sound output from the speakers and headphones.

### 40 rhythms

All the rhythm you could ever need, from pops and heavy metal to classic.

### Expert Logic Accompaniment System

A totally revolutionary new intelligent accompaniment system that automatically selects and plays the accompaniment pattern that matches the key of the chord progression being played. The result is sophisticated accompaniment patterns that are musically logical all the time.

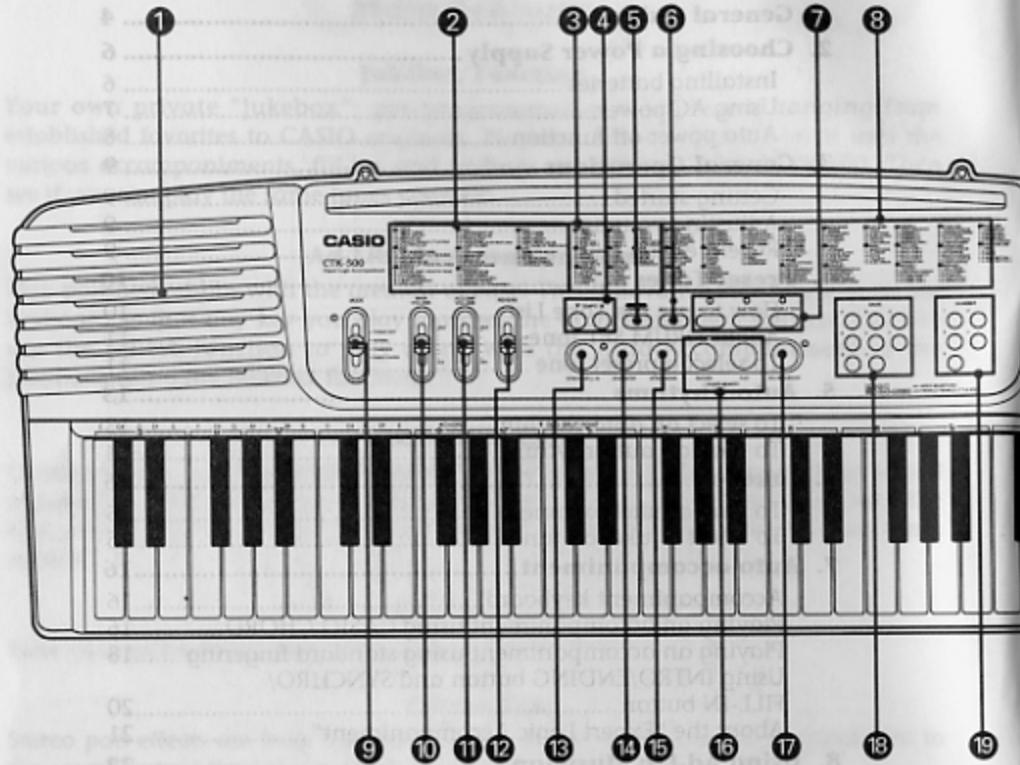
### Precaution

If battery power drops below a certain level, the power lamp loses its brightness, the quality of the tone produced deteriorates, sounds cuts off suddenly and unexpectedly during keyboard play, a totally different tone may sound, Chord Memory contents may be lost, auto-rhythm pattern or Jukebox playback may become abnormal. Should any of these symptoms occur, replace batteries as soon as possible.

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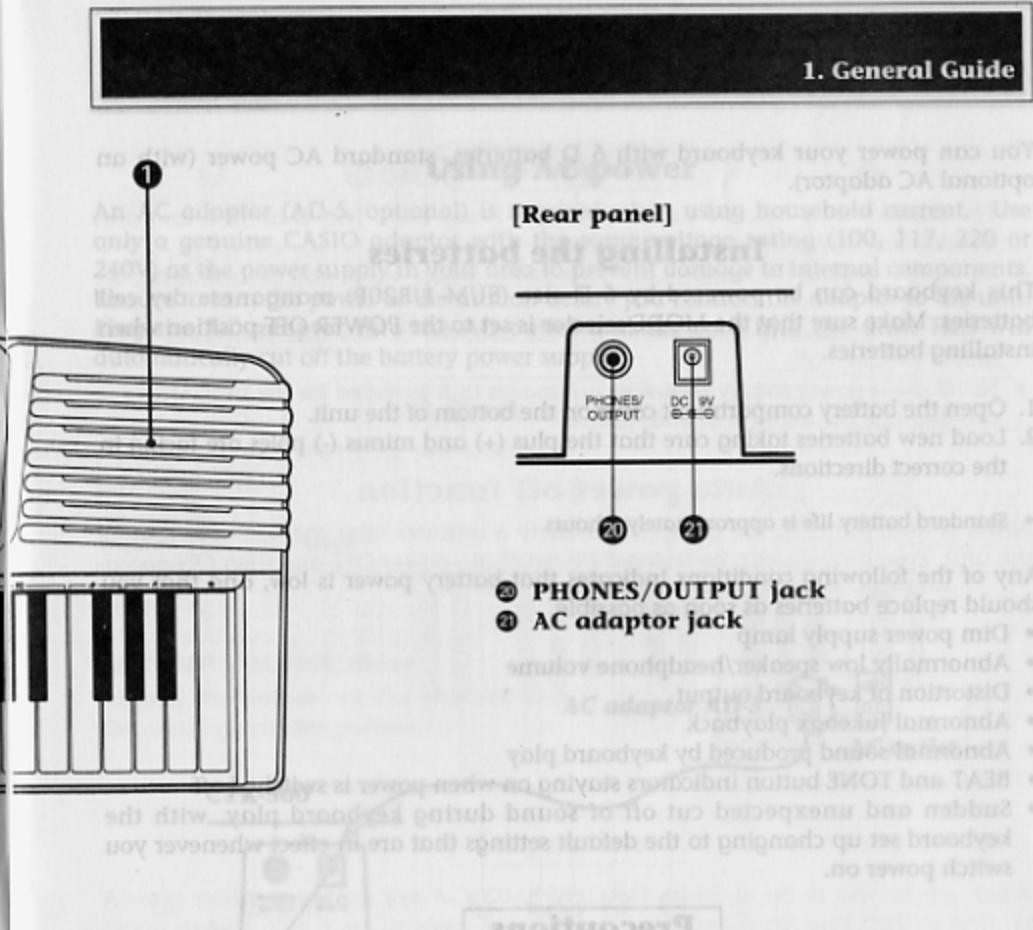
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## 1. General Guide

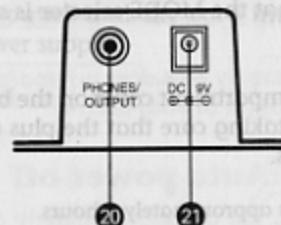


- |  |   |
|--|---|
| <b>①</b> Speakers                              | <b>⑪</b> ACCOMP VOLUME slider                   |
| <b>②</b> JUKEBOX tunes list                    | <b>⑫</b> REVERB selector                        |
| <b>③</b> BEAT list                             | <b>⑬</b> SYNCHRO/FILL-IN button                 |
| <b>④</b> TEMPO control buttons                 | <b>⑭</b> START/STOP button                      |
| <b>⑤</b> JUKEBOX START/STOP<br>button          | <b>⑮</b> INTRO/ENDING button                    |
| <b>⑥</b> BEAT (JUKEBOX) button                 | <b>⑯</b> CHORD MEMORY buttons (RECORD,<br>PLAY) |
| <b>⑦</b> TONE buttons<br>(SOLO, DUO, ENSEMBLE) | <b>⑰</b> AD-LIB MUSICIAN button                 |
| <b>⑧</b> TONE list                             | <b>⑯</b> BANK buttons                           |
| <b>⑨</b> MODE selector                         | <b>⑰</b> NUMBER buttons                         |
| <b>⑩</b> MAIN VOLUME slider                    |   |

## 1. General Guide



### [Rear panel]



- ⑩ PHONES/OUTPUT jack
  - ⑪ AC adaptor jack

## 2. Choosing a Power Supply

You can power your keyboard with 6 D batteries, standard AC power (with an optional AC adaptor).

### Installing the batteries

This keyboard can be powered by 6 D size (SUM-1/R20P) manganese dry cell batteries. Make sure that the MODE selector is set to the POWER OFF position when installing batteries.

1. Open the battery compartment cover on the bottom of the unit.
2. Load new batteries taking care that the plus (+) and minus (-) poles are facing in the correct directions.
- Standard battery life is approximately 6 hours.

Any of the following conditions indicates that battery power is low, and that you should replace batteries as soon as possible.

- Dim power supply lamp
- Abnormally low speaker/headphone volume
- Distortion of keyboard output
- Abnormal Jukebox playback
- Abnormal sound produced by keyboard play
- BEAT and TONE button indicators staying on when power is switched off
- Sudden and unexpected cut off of sound during keyboard play, with the keyboard set up changing to the default settings that are in effect whenever you switch power on.

### Precautions

Incorrectly using batteries can cause them to leak or burst, and may damage your unit. Note the following precautions:

- Be sure that the plus (+) and minus (-) poles are facing in the correct directions.
- Do not mix battery types.
- Do not mix new batteries with old ones.
- Never leave dead batteries in the battery compartment.
- Remove batteries when not using the unit for extended periods.
- Never try to recharge the batteries that are specified for the power supply of this unit.
- Do not expose batteries to direct heat, let them become shorted or try to take them apart.

(If a battery leaks, clean out the battery compartment of the unit immediately, taking care to avoid letting the battery fluid come into direct contact with your skin.)

## 2. Choosing a Power Supply

### Using AC power

An AC adaptor (AD-5, optional) is required when using household current. Use only a genuine CASIO adaptor with the same voltage rating (100, 117, 220 or 240V) as the power supply in your area to prevent damage to internal components. Be sure to turn the power of the unit off before you connect the adaptor to the unit. Plug the AC adaptor into the AC outlet and the cord into the unit. This will automatically cut off the battery power supply.

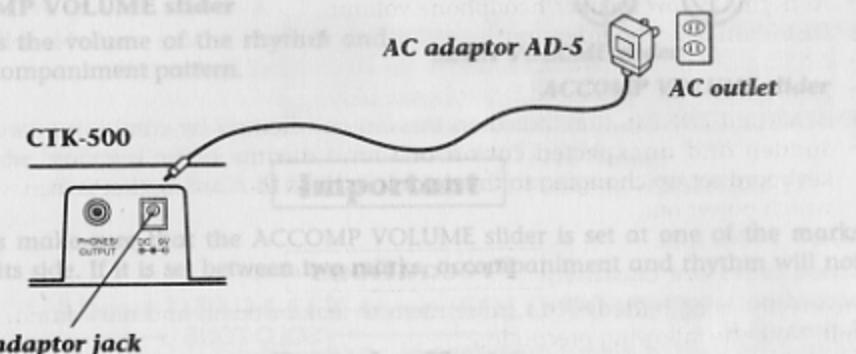
or gaudiu si hinc \* *Power is supplied to the unit from the AC outlet.* *Adjusting the volume control sliders.* *Auto power off function.*

This keyboard features two volume control sliders.

To get the best sound from your keyboard, always set the ACCOMP VOLUME slider to the halfway point. Adjust the overall volume with the VOLUME slider on the right side of the board.

#### ACCOMP VOLUME slider

Adjusts the volume of the rhythm and the accompaniment pattern.



### Reverb effects

Reverb effects make tones longer after they are played, which gives the feeling they are being played in a large hall. This keyboard has two different effects, which you can select between by sliding the REVERB selector between 1 and 2.

- If you want to play without reverb, slide the REVERB selector to its OFF position.



REVERB selector

**Important**

- The adaptor may become warm when it is being used. This is normal and does not indicate any problem.
- Be sure to unplug the adaptor from the power source when you are not using the unit.
- Whenever connecting or disconnecting the adaptor, be sure that the power of the unit is switched off.
- Never use a power supply that does not match that specified for the unit. Doing so can damage the adaptor or your unit.

**Auto power off function**

Power is automatically cut off approximately 6 minutes after the last operation of the unit. Power supply can be restored by switching power OFF and then ON again.

should replace batteries as soon as possible.

- Dim power supply lamp
- Abnormal low speaker/headphone volume
- Distortion
- Abnormal sound output
- Abnormal sound produced by keyboard play
- Abnormal sound produced by keyboard play
- BEAT and TONE button indicators stay on
- Sudden and unexpected cut off of sound during keyboard play with the keyboard set up changing to the default settings that are programmed when you switch power on.

**Precautions**

Incorrectly using batteries can cause them to leak or burst, and may damage your unit. Note the following precautions:

- Be sure that the plus (+) and minus (-) poles are facing in the correct directions.
- Do not mix battery types.
- Do not mix new batteries with old ones.
- Never leave dead batteries in the battery compartment.
- Remove batteries when not using the unit for extended periods.
- Never try to recharge the batteries or use them for the power supply of this unit.
- Do not expose batteries to direct heat, moisture, because shorted or try to take them apart.
- If a battery leaks, clean out the battery compartment of the unit immediately taking care to avoid letting the battery fluid come into direct contact with your skin.

**3. General Operations****Getting started**

Follow the steps below to get started.

- Set the MODE selector to NORMAL. The power indicator lights.
- Adjust the volume level using the MAIN volume slider.
- Select one of the 120 preset tones (see "Preset Tones", page 10).
- Now, start playing.

**Adjusting volume**

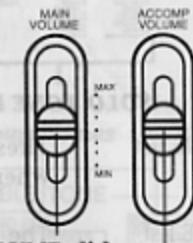
This keyboard features two volume control sliders.

**MAIN VOLUME slider**

Adjusts the overall volume of the keyboard.

**ACCOMP VOLUME slider**

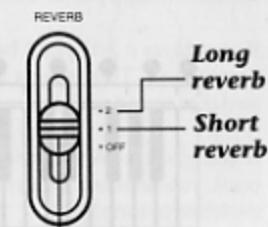
Adjusts the volume of the rhythm and the accompaniment pattern.

**MAIN VOLUME slider****ACCOMP VOLUME slider****Important**

Always make sure that the ACCOMP VOLUME slider is set at one of the marks along its side. If it is set between two marks, accompaniment and rhythm will not sound.

**Reverb effects**

Reverb effects make tones longer after they are played, which gives the feeling they are being played in a large hall. This keyboard has two different effects, which you can select between by sliding the REVERB selector between 1 and 2.

**REVERB selector**

- If you want to play without reverb, slide the REVERB selector to its OFF position.

- Low tom
- Middle tom
- Hi tom
- Cow bell

Snare drum

Crash cymbal

Gated snare drum

Crash cymbal

Clap hand

Hand clapper

## 4. Preset Tones

This keyboard gives you access to a total of 120 preset tones, which are divided into categories that contain 40 tones each: SOLO, DUO, ENSEMBLE.

### How to use the Tone List

A Tone List is printed on the panel of the keyboard to show you the BANK and NUMBER inputs required for each tone in the Solo, Duo and Ensemble modes.



**SOLO TONE list    DUO TONE list    ENSEMBLE TONE list**

#### SOLO TONE list

These single tones sound on across the entire keyboard when the indicator above the SOLO TONE button is lit.

#### DUO TONE list

The tone combinations in this list are available when the indicator above the DUO TONE button is lit.

#### ENSEMBLE TONE list

The tones in this list are created by combining two other tones. They sound on across the entire keyboard when the indicator above the ENSEMBLE TONE button is lit.

#### SOLO TONE List

These tones are classified according to groups, from A through H.

SOLO TONE		
A KEYBOARD	B ORGAN	C GUITAR
A 1 PIANO	B 1 PIPE ORGAN	C 1 DIST GUITAR
A 2 ELEC PIANO 1	B 2 JAZZ ORGAN	C 2 ACOUS GUITAR 1
A 3 ELEC PIANO 2	B 3 ELEC ORGAN 1	C 3 ACOUS GUITAR 2
A 4 HARPSICHORD	B 4 ELEC ORGAN 2	C 4 JAZZ GUITAR
A 5 POP-CLAVI	B 5 PERCUS. ORGAN	C 5 SYNTH-BASS
D SYNTH	E 1 STRINGS 1	F WIND
D 1 CRYSTAL	E 2 STRINGS 2	
D 2 TROPICAL	E 3 VIOLIN	
D 3 SYNTH-BELL	E 4 BANJO	
D 4 SYNTH-LEAD	D 5 HARP	
D 5 5th. LEAD		

#### Group names

#### Tone Names (Tone A2=ELEC PIANO 1)

### DUO TONE List

These tones are separated between the tone that sounds on the left end of the keyboard and the tone that sounds on the right.

Note the bottom two rows (VARIOUS 1 and VARIOUS 2) of the DUO Tone List. Each of the items in these rows shows both the left side and right side tones (H3 = HARP/FLUTE).

### ENSEMBLE TONE List

As with the SOLO tone list, these tones are classified according to groups, from A through H.

1. Press the **BEAT** (UK: DRUM SET) button.
2. Press the **BANK** button.
3. Press the **NUMBER** buttons.

## 4. Preset Tones

### Left end tone

DUO TONE	
A WOOD BASS/	B WOOD BASS/
A 1 PIANO	B 1 BRASS
A 2 ELEC PIANO	B 2 SAXOPHONE
A 3 JAZZ GUITAR	B 3 TRUMPET
A 4 VIBRAPHONE	B 4 CLARINET
A 5 JAZZ ORGAN	B 5 FLUTE
D SYNTH-BASS	E PIANO/
D 1 DIST. GUITAR	E 1 STRINGS
D 2 ELEC GUITAR	E 2 SYNTH-STRINGS
D 3 POP-CLAVI	E 3 HARP/FLUTE
D 4 BRASS	E 4 VIBRAPHONE

**Right end tone**  
(A2=WOOD BASS/ELEC PIANO)

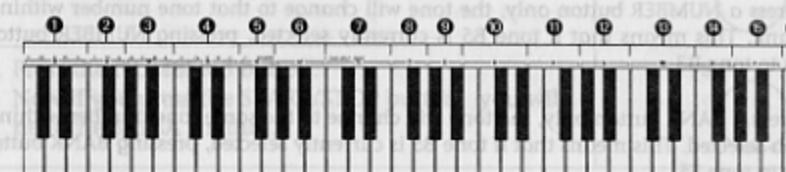
### Group names

ENSEMBLE TONE		
A ENSEMBLE	B STRING ENS	C BRASS ENS
A 1 PIANO CONCERTO	B 1 GRAND STRINGS	C 1 TORCHESTRA
A 2 ENSEMBLE 1	B 2 CHORUS STRINGS	C 2 BRASS ENS 1
A 3 ENSEMBLE 2	B 3 EP STRINGS	C 3 BRASS ENS 2
A 4 ENSEMBLE 3	B 4 SYNTH-STRINGS	C 4 BRASS ENS 3
A 5 BAROQUE ORCH	B 5 SHARP STRINGS	C 5 CHORUS BRASS
D SYNTH-ENS	C HORN ENS	D WIND-HORN ENS
D 1 SYNTH-ENS 1	E 1 PIANO CHORUS	E 1 WIND
D 2 SYNTH-ENS 2	E 2 EP CHORUS	E 2 MEDIUM
D 3 SYNTH-ENS 3	E 3 1/2 CHORUS	
D 4 SYNTH-ENS 4	E 4 1/2 CHORUS	
D 5 POWER-CLAVI	E 5 1/2 CHORUS	

**Tone Names**  
(Tone A2=ENSEMBLE 1)

### About DRUM SET tone (SOLO TONE H5)

The DRUM SET (SOLO TONE H5) assigns 16 percussion sounds to the keyboard as illustrated below. The sounds assigned to each key are indicated above the keyboard.



- |                     |                 |                |              |
|---------------------|-----------------|----------------|--------------|
| 1. Bass drum        | 5. Open hi-hat  | 9. Low tom     | 13. Conga    |
| 2. Snare drum       | 6. Crash cymbal | 10. Middle tom | 14. Maracas  |
| 3. Gated snare drum | 7. Ride cymbal  | 11. Hi tom     | 15. Claves   |
| 4. Closed hi-hat    | 8. Floor tom    | 12. Cow bell   | 16. Rim shot |

### To select a preset tone

1. Press either the SOLO TONE, DUO TONE, or ENSEMBLE TONE button to select the tone type. The indicator above the button you press should light.
2. Press the BANK button (A through H) for the tone you want to select.
3. Press the NUMBER button (1 through 5) for the tone you want to select.

#### Example:

To select the ENSEMBLE tone HARP STRINGS, which is tone number B5.

1. Press the ENSEMBLE TONE button and the indicator above the button lights.	
2. Press the BANK B button.	
3. Press the NUMBER 5 button. Now if you play the keyboard you will hear the HARP STRINGS tone.	

#### Notes

- The last tone selections you make from the SOLO TONE, DUO TONE, and ENSEMBLE TONE lists are retained when you switch over to another list. That means the last tone you selected will still be selected when you return to that list again.
- Whenever you switch power off, your tone selections are cleared. Switching power on automatically selects tone A1 (PIANO) of the SOLO TONE list. When you enter another list after switching power on, the corresponding A1 tone is selected automatically.
- If you press a NUMBER button only, the tone will change to that tone number within the same bank. This means that if tone B5 is currently selected, pressing NUMBER button 3 switches to tone B3.
- If you press a BANK button only, the tone will change to the same tone number within the bank you selected. This means that if tone B5 is currently selected, pressing BANK button F switches to tone F5.
- This keyboard is capable of producing a maximum of 16 notes at the same time. Some tones can produce only eight notes simultaneously, and some of the ENSEMBLE tones can produce only 4 notes. The number of notes that can be played at the same time is also reduced when rhythm is being played, when you are using Auto-Accompaniment, etc.

## 5. Auto Rhythms

The Beat List printed on the panel of the keyboard shows you the BANK and NUMBER inputs required to select from among the 40 built-in auto-rhythm patterns.

#### Beat List

Auto-rhythms are classified according to groups, from A through H.

Group names		
BEAT		
A DISCO	B POPS	C ROCK
A 1 T6BEAT 1	B 1 POPS 1	C 1 ROCK 1
A 2 16 BEAT 2	B 2 POPS 2	C 2 ROCK 2
A 3 DISCO	B 3 POPS 3	C 3 ROCK 3
A 4 ELEC POP 1	B 4 8BEAT 1	C 4 HEAVY METAL
A 5 ELEC POP 2	B 5 8BEAT 2	C 5 SLOW ROCK
D JAZZ	E FUNK	F LATIN
D 1 POST MODERN	E 1 FUNK	F 1 BOSSA NOVA
D 2 SWING 1	E 2 R&B 1	Auto-Rhythm Names
D 3 SWING 2	E 3 R&B 2	(Beat A3=DISCO)
D 4 HARD BOP	E 4 GO-GO	
D 5 JAZZ WALTZ	E 5 SHUFFLE	F 5 MERENGUE

Example To play Oh-La-La corresponds to Beat List C3.

1. Press the BEAT (JUKEBOX) button. The indicator above the button should light.
2. Press the BANK button (A through H) for the auto-rhythm you want to select.
3. Press the NUMBER button (1 through 5) for the auto-rhythm you want to select.

#### To select an auto-rhythm

Example: To select SALSA, which is auto-rhythm F3.

1. Press the BEAT (JUKEBOX) button and the indicator above it lights.	
2. Press the BANK F button.	
3. Press the NUMBER 3 button. Now if you press the START/STOP button, you will hear the SALSA rhythm.	

- Notes**
- The last auto-rhythm selection you make is retained until you switch power off. Switching power on automatically selects auto-rhythm A1 (16 BEAT 1).
  - If you press a NUMBER button only, the auto-rhythm will change to that auto-rhythm number within the same bank. This means that if auto-rhythm B5 is currently selected, pressing NUMBER button 3 switches to auto-rhythm B3.
  - If you press a BANK button only, the auto-rhythm will change to the same auto-rhythm number within the bank you selected. This means that if auto-rhythm B5 is currently selected, pressing BANK button F switches to auto-rhythm F5.

### To play an auto-rhythm

1. After selecting an auto-rhythm, press START/STOP button to start the rhythm.	
2. Adjust the tempo using the TEMPO control buttons. Each press of ▲ speeds up the tempo, while pressing ▼ slows it down.	
<ul style="list-style-type: none"> <li>Tempo of the auto-rhythm can be adjusted between 40 and 256 beats per minute,</li> <li>Pressing both TEMPO control buttons at the same time sets the tempo to 132 beats per minute.</li> </ul>	
3. You can adjust the volume of the rhythm by using the ACCOMP VOLUME slider.	
4. Press the START/STOP button again to stop auto-rhythm play.	
<ul style="list-style-type: none"> <li>You can add some variation to the auto-rhythm play by pressing the INTRO/ENDING and SYNCHRO/FILL-IN buttons. See pages 20 through 21 of this manual for details.</li> </ul>	
<ul style="list-style-type: none"> <li>This keyboard is capable of producing a maximum of 16 notes at the same time. Some tones don't produce only eight notes simultaneously, and some of the ENSEMBLE tones can produce only 4 notes. The number of notes that can be played at the same time is also reduced when rhythm is being played, when you are using Auto-Accompaniment, etc.</li> </ul>	

## 6. Jukebox

The keyboard is programmed to play 40 different tunes, each of which demonstrates the capabilities of one of the auto-rhythms. Select the tune you want to play from the Jukebox List printed on the keyboard's console.

### To play a Jukebox tune

- Press the JUKEBOX START/STOP button, and Jukebox tune begins to play.
- To stop Jukebox playback, press the JUKEBOX START/STOP button again.

Note that each of the auto-rhythms is related to a Jukebox tune. This means that whenever you press the JUKEBOX START/STOP button, the Jukebox tune that corresponds to the currently selected auto-rhythm begins to play.

### To select a Jukebox tune

**Example:** To play Ob-La-Di Ob-La-Da, which is Jukebox tune B2 and also corresponds to Beat List B2.

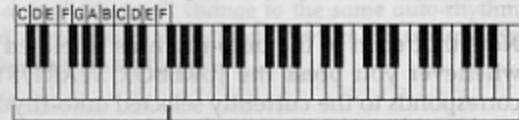
1. Press the BEAT (JUKEBOX) button and the indicator above it lights.	
2. Press the BANK B button.	
3. Press the NUMBER 2 button.	
4. Press the JUKEBOX START/STOP button to start play of the corresponding Jukebox tune. Play repeats until you switch the Jukebox function off.	
5. To switch the Jukebox function off, press the JUKEBOX START/STOP button or the START/STOP button.	or

## 7. Auto-accompaniment

This unit features 40 accompaniment patterns that let you add full accompaniments to your performances automatically. You can select from two types of auto-accompaniment — simplified fingering chord play (CASIO CHORD) or standard fingering (FINGERED).

### Accompaniment keyboard

When you set the MODE selector to FINGERED or CASIO CHORD, the keys of the lower 1.5 octave of the keyboard are the accompaniment keys and the rest of the keyboard is the melody section.



Accompaniment keyboard      Melody keyboard

### Playing an accompaniment using CASIO CHORD

The Casio Chord system lets you easily play the four main types of chords. Playing of the chords is simplified as shown in the chart below.

Keys	Chord Type	Example
Pressing <b>one</b> accompaniment key	Major chord	C (C Major Chord) 
Pressing <b>two</b> accompaniment keys	Minor chord	Cm (C Minor Chord) 
Pressing <b>three</b> accompaniment keys	Seventh chord	C7 (C Seventh Chord) 
Pressing <b>four</b> accompaniment keys	Minor seventh chord	Cm7 (C Minor Seventh Chord) 

## 7. Auto-accompaniment

### Note

The bottom note that you play determines the name of the chord. For example, if the bottom note is C, the keyboard plays a C chord.

Follow these steps to play the Casio Chord auto-accompaniment.

1. Set the MODE selector to the CASIO CHORD position.

2. Select one of the auto-rhythms. (refer to "Auto-rhythms" on page 13)

3. Start the auto-rhythm by pressing the START/STOP button.

4. Press one to four accompaniment keys. The accompaniment automatically plays.

5. Adjust TEMPO [ $\Delta$ / $\nabla$ ], MAIN VOLUME slider, and ACCOMP VOLUME slider. To stop the auto-accompaniment

6. Press the START/STOP button to stop the auto-accompaniment.

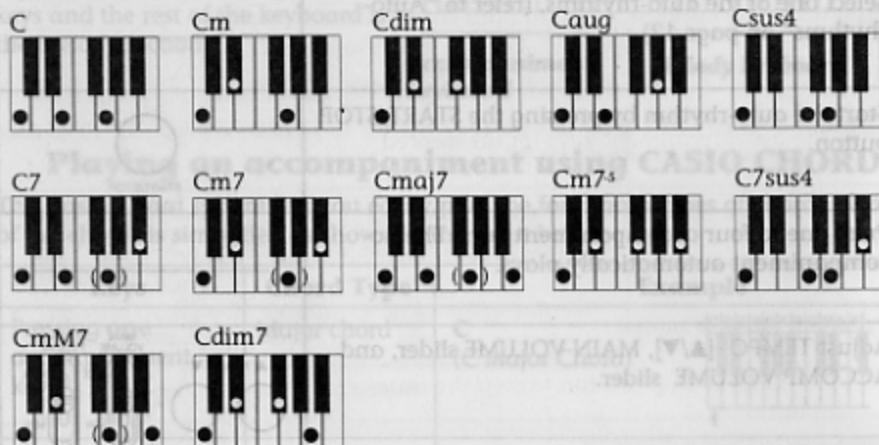
### Note

You can also use introductions, fill-ins and ending patterns in your accompaniment performance. See page 20 for details.

## Playing an accompaniment using standard fingering

The standard fingering (FINGERED) mode lets you play a wider variety of chords. You can start an accompaniment pattern by pressing down either three or four of the proper accompaniment keys.

This unit is capable of recognizing 12 different chords. The following shows the fingerings of the recognized chords with a root of C. Note that you can omit the fifth note (which are within parentheses in the illustrations below) to produce 7, m7, maj7 and mM7 chords.



### Notes

Each of the above examples shows only one of the possible fingerings for each chord. Note that you can play a chord by pressing its notes in any combination. For example, each of the following fingerings produce the same C chord.



- See the "List of fingered chord" on page 56 to 58 for information on the fingering of chords with all the roots.

Follow these steps to play the standard fingering auto-accompaniment.

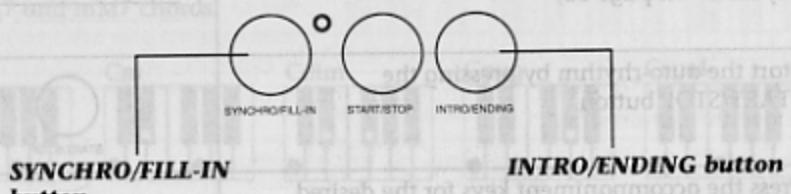
1. Set the MODE selector to the FINGERED position.	
2. Select one of the auto-rhythms. (refer to "Auto-rhythms" on page 13)	
3. Start the auto-rhythm by pressing the START/STOP button.	
4. Press the accompaniment keys for the desired chord.	
5. Adjust TEMPO [▲▼], MAIN VOLUME slider, and ACCOMP VOLUME slider.	
6. Press the START/STOP button to stop the auto-accompaniment.	

### Note

You can also use introductions, fill-ins and ending patterns in your accompaniment performance. See page 20 for details.

## Using INTRO/ENDING button and SYNCHRO/FILL-IN button

These 2 buttons give you control over the rhythm and accompaniment patterns. When the MODE selector is in the FINGERED or CASIO CHORD position, you can control all of the accompaniment patterns. When it is in NORMAL position, you can control the rhythm pattern only.



**SYNCHRO/FILL-IN button**

**INTRO/ENDING button**

Use this button to perform the two operations described below.

- To start the accompaniment pattern

When you press the INTRO/ENDING button instead of the START/STOP button to start the accompaniment pattern, the keyboard plays a 2-measure intro before going into the standard accompaniment pattern.

- To end the accompaniment pattern

When you press the INTRO/ENDING button instead of the START/STOP button to end the accompaniment pattern, the keyboard plays a 2-measure ending before ending the accompaniment pattern.

**SYNCHRO/FILL-IN button**

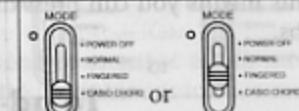
You can use this button to perform the two operations described as follows.

- To insert a fill in pattern

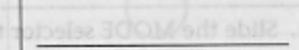
When you press the SYNCHRO/FILL-IN button while Auto-Accompaniment is playing, an appropriate fill-in is inserted into the rhythm pattern. If you hold the button down, the fill-in pattern is repeated until the end of the measure during which you release the button.

To synchronize the start the accompaniment pattern with your play of the keyboard, as described in the following procedure.

- Set the MODE selector to the CASIO CHORD or FINGERED position.



- Select an auto-rhythm (page 13).

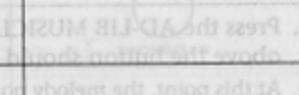


- Press the SYNCHRO/FILL-IN button. The indicator above the button should light.

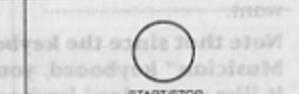
- At this time, you could press the INTRO/ENDING button (page 20). If you do, the keyboard will play a 2-measure intro pattern before going into the auto-accompaniment pattern.



- When you are ready, press the accompaniment keys to play the first chord. As soon as you do, the auto-accompaniment pattern begins to play.



- To stop the auto-accompaniment pattern play, press the START/STOP button.



## About "Expert Logic Accompaniment"

The Auto-Accompaniment system of this keyboard employs a revolutionary new system that is unlike anything ever before available on an electronic keyboard. Expert Logic Accompaniment is a totally revolutionary new intelligent accompaniment system that makes real-time decisions about chord progressions. Based on key judgement logic, this system automatically selects and plays the appropriate accompaniment pattern to match the key of the chord progression being played. This means it plays different patterns for the same major chord, depending on whether the chord is being used as a tonic or subdominant. The result is sophisticated accompaniment patterns that are musically logical all the time.

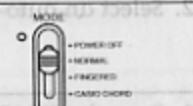
- You can record a chord progression into the Chord Memory (page 24) and then play it back for play along with Auto-Musician. During playback from the Chord Memory, you can use the entire keyboard (Accompaniment and Melody keyboards) for right-hand play.

## 8. Using Ad-Lib Musician

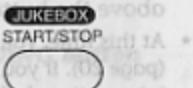
The Ad-Lib Musician function lets you easily ad-lib along with the Auto-Accompaniment patterns and Jukebox tunes. It adjusts the scale of the keyboard to play only the notes that match the chord being played by the accompaniment. This means you can press any key and stay within the correct scale for instant ad-libs.

### To ad-lib with a Jukebox tune

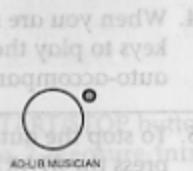
1. Slide the MODE selector to the NORMAL position.



2. Select a Jukebox tune and press the JUKEBOX START/STOP button to play it (page 15).



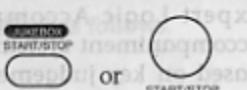
3. Press the AD-LIB MUSICIAN button. The indicator above the button should light.



- At this point, the melody part of the Jukebox tune no longer sounds, and the scale of the keyboard changes to match the type and chords of the current Beat List setting. Now you can play any key on the keyboard you want.
- Note that since the keyboard is now an "Ad-Lib Musician" keyboard, you will not be able to play it like a standard keyboard.

- Anytime you want to cancel the Ad-Lib Musician function and restart playback of the Jukebox tune's melody (and return the keyboard to its normal function), simply press the AD-LIB MUSICIAN button again (so that the indicator goes out).

4. To stop playback of the Jukebox tune, press the START/STOP button or the JUKEBOX START/STOP button.



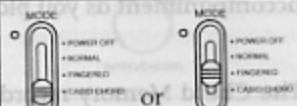
#### Note

- You can change the tone and tempo of Jukebox tunes only when you are using them with the Ad-Lib Musician function.

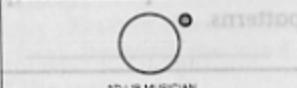
## 8. Using Ad-Lib Musician

### To ad-lib with chord accompaniment

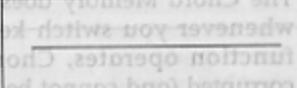
1. Slide the MODE selector to the CASIO CHORD or FINGERED position.



2. Press the AD-LIB MUSICIAN button. The indicator above the button should light.



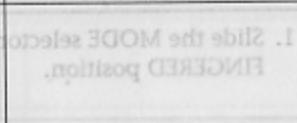
3. Select a rhythm (page 13).



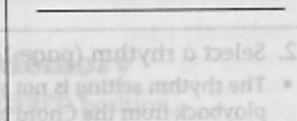
4. Press the SYNCHRO/FILL-IN button.



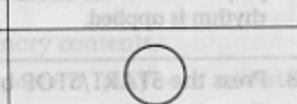
5. Play a chord on the accompaniment keyboard, and Auto-Accompaniment begins to play.



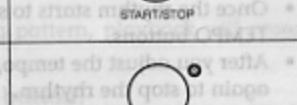
- At this point, the scale of the keyboard changes to match the Auto-Accompaniment. Now you can play any key on the keyboard you want.



6. To stop the Auto-Accompaniment, press the START/STOP button.



7. Press the AD-LIB MUSICIAN button and the indicator above it will go out.



#### Notes

- While you are using the Ad-Lib Musician function, the accompaniment keyboard can be used for play of chords only. You can play additional chords on the melody keyboard only.
- You can record a chord progression into the Chord Memory (page 24) and then play it back for play along with Ad-Lib Musician. During playback from the Chord Memory, you can use the entire keyboard (Accompaniment and Melody keyboards) for ad-lib play.

## 9. Using the Chord Memory

The Chord Memory makes it possible to store up to 128 chords of an accompaniment pattern into memory. You can then play along with your own accompaniment as you play it back.

### Chord Memory contents

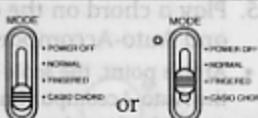
The Chord Memory records the accompaniment chord progression, in addition to Auto-Accompaniment (page 16) START/STOP, INTRO, FILL-IN and ENDING patterns.

### Important!

The Chord Memory does not have a back-up power supply. This means that whenever you switch keyboard power off or whenever the Auto Power Off function operates, Chord Memory contents are either deleted entirely or corrupted (and cannot be played back). You have to reinput data into the Chord Memory whenever you switch power off and then on again.

### To record into Chord Memory

- Slide the MODE selector to the CASIO CHORD or FINGERED position.

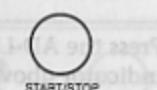


- Select a rhythm (page 13).

- The rhythm setting is not stored in memory. When you playback from the Chord Memory, the currently selected rhythm is applied.

- Press the START/STOP button.

- Once the rhythm starts to sound, adjust it using the TEMPO buttons.
- After you adjust the tempo, press the START/STOP button again to stop the rhythm.
- The tempo setting is not stored in memory. When you playback from the Chord Memory, the current tempo is applied.



- Press the RECORD button.

- A metronome sounds and the tempo indicator flashes to indicate the tempo.
- The metronome sound continues until you start to play.
- Nothing is recorded into Chord Memory until you play something on the accompaniment keyboard.



## 9. Using the Chord Memory

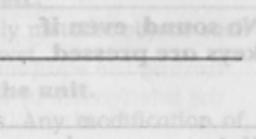
- Press the INTRO/ENDING button for an intro pattern.

- You can skip this step if you do not want to include an intro.



- Play a chord to start recording along with play of the Auto-Accompaniment.

- Play the chord by either fingering it or using the Casio Chord function, in accordance with your setting in step 1, on page 24.



- After you play your last chord, press the INTRO/ENDING button to insert an ending pattern and end the Auto-Accompaniment. Ending with an ending pattern will cause playback to stop automatically when the ending pattern is reached.

- If you do not want to include an ending, press the START/STOP button instead. Ending with a START/STOP button operation will cause playback of the Chord Memory contents to repeat until you stop it.



### To play back from Chord Memory

- Slide the MODE selector to the CASIO CHORD or FINGERED position.

- Set the tempo and select a rhythm for playback.

- Press the PLAY button to start playback of Chord Memory contents.

- If the Chord Memory contents end with an ending pattern, playback will stop automatically when the end of the data is reached.
- If the Chord Memory contents do not end with an ending pattern, playback will repeat until you stop it.

- To stop playback at any time, press the START/STOP button.

#### Note

- During playback from Chord Memory, the entire keyboard becomes a melody keyboard.

Power consumption: 6.7W  
Electrical energy requirement: 120V~50Hz/60Hz 100W/120W

Weight: 4.5kg (9.9 lbs.)  
Standard accessories: Score stand

\* Design and specifications are subject to change without notice.

## 10. Troubleshooting

If your keyboard operates erratically, replace the batteries or shift to one of the alternate power sources mentioned in "Choosing a Power Supply" on page 6. If the keyboard continues to operate erratically, use the following troubleshooting chart to correct the problem.

Trouble	Possible Cause	Remedy
<b>No sound, even if keys are pressed.</b>	1. Headphones connected. 2. Auto power off has activated.	1. Disconnect headphones. 2. Set the MODE selector to POWER OFF and then NORMAL again.
<b>Not accompaniment and/or rhythm sound.</b>	1. ACCOMP VOLUME slider turned down. 2. ACCOMP VOLUME slider not in correct position.	1. Turn up the ACCOMP VOLUME slider. 2. Make sure ACCOMP VOLUME slider is set at a mark and not between two marks.
<b>Chord Memory contents erased.</b>	1. Power supply cut off. 2. Dead batteries.	1. Make sure power supply is always maintained* (page 6). 2. Replace batteries before they go dead.
<b>Sound cuts off suddenly and unexpectedly during keyboard play, with keyboard set up changing to power on default settings.</b>	Dead batteries.	Replace batteries with new ones.
<b>Occasional interference.</b>	Refrigerators, washing machines and similar electric appliances.	Use outlet as far away as possible from appliance thought to be the cause.
<b>No sound when connected to external amplifier.</b>	Defective connection cord.	Replace connection chord.

- \* Chord memory contents are lost and cannot be recovered whenever power is cut off.
- Restore power and re-record your chords. (Color flashes to indicate the tempo.)
- The metronome sound continues until you start to play.
- Nothing is recorded into Chord Memory until you play something on the accompaniment keyboard.

## 11. Care of Your Keyboard

**Avoid heat, humidity or direct sunlight.**  
Do not overexpose the unit to direct sunlight, or place near an air conditioner, or in any extremely hot place.

**Take care not to drop the unit and avoid strong impact.**

Strong impact may cause malfunctions. When carrying or transporting the unit, protect the keyboard and switches with soft cloth or other material.

**Keep the unit free of liquids, dust, etc.**

Do not allow foreign matter to get between the keys, especially metallic objects such as hairpins, sewing needles or coins. Also, do not let the unit get wet.

**Never attempt to modify any parts of the unit.**

The unit is a precision instrument, made of electronic parts. Any modification of, or tampering with inner parts may cause malfunction.

**Do not use lacquer, thinner or similar chemicals for cleaning.**

Clean the keyboard with a soft cloth dampened in a weak solution of water and a neutral detergent. (Soak the cloth in the solution and squeeze until it is almost dry.)

## 12. Specifications

### Number of keys:

61 of each hand

### Polyphony:

16-note (Max)

### Preset tones:

120

### Auto-rhythms:

40

### Built-in speakers:

12 cm dia. x 2 (output = 1.1 W + 1.1 W)

### Jukebox tunes:

40 tunes

### Auto-accompaniment:

CASIO CHORD, FINGERED

### Chord Memory:

Real-time recording

Memory capacity: up to 128 chords (max)

Terminals:  
Output jack [output impedance: 50Ω, output voltage: 1.4V(RMS)MAX], AC adaptor jack (DC 9V)

Power source:  
2-way AC/DC power sources;  
AC: 100, 117, 220 or 240 (± 10V), 50/60 Hz, with optional AC adaptor AD-5.

DC: 6 D size (SUM-1/R20P) manganese dry batteries.  
(Battery life: approx. 6 hours.)

### Auto power off:

Approximately 6 minutes after the last operation

### Power consumption:

6.7W

### Dimensions(W x D x H):

939 x 337 x 110 mm (36 15/16" x 13 1/4" x 4 5/16")

### Weight:

4.5kg (9.9 lbs)

### Standard accessories:

Score stand

- Design and specifications are subject to change without notice.

## **NOTICE**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.

FCC WARNING

**Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

## List of fingered chord / Lista de acordes digitados

Chord Type Root	Major	minor	7th	m7th
C				
C <sup>♯</sup> /D <sup>♭</sup>				
D				
(D <sup>♯</sup> )/E <sup>♭</sup>				
E				
F				
F <sup>♯</sup> /G <sup>♭</sup>				
G				
(G <sup>♯</sup> )/A <sup>♭</sup>				
A				
(A <sup>♯</sup> )/B <sup>♭</sup>				
B				

Chord Type Root	Major 7th	m7-5	dim	aug
C				
C <sup>♯</sup> /D <sup>♭</sup>				
D				
(D <sup>♯</sup> )/E <sup>♭</sup>				
E				
F				
F <sup>♯</sup> /G <sup>♭</sup>				
G				
(G <sup>♯</sup> )/A <sup>♭</sup>				
A				
(A <sup>♯</sup> )/B <sup>♭</sup>				
B				

Chord Type Root	Sus4	7sus4	dim 7th	mM7
C				
C <sup>†</sup> /(D <sup>†</sup> )				
D				
(D <sup>†</sup> )/E <sup>†</sup>				
E				
F				
F <sup>†</sup> /(G <sup>†</sup> )				
G				
(G <sup>†</sup> )/A <sup>†</sup>				
A				
(A <sup>†</sup> )/B <sup>†</sup>				
B				

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