SPARE PARTS MASTER

Casiotone MT-100

Operation Manual...... 2 Manual de Operación.... 24



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Casiotone MT-100 ELECTRONIC MUSICAL INSTRUMENT

Thank you for purchasing a Casiotone MT-100 electronic musical instrument. Besides all of the fine innovations found on all of CASIO's musical instruments, the Casiotone MT-100 also features a built-in graphic equalizer that lets you adjust any of the 20 preset tones to just the shade you want. A selection of 12 auto-rhythms and 4 bass/chord patterns provides versatile back up arrangements. The compact design of the MT-100 together with a 3-way AC/DC power source means that you can play your MT-100 wherever you go.

In order to obtain full enjoyment of this instrument and to ensure troublefree operation, be sure to read this manual thoroughly, and carefully follow the instructions given.

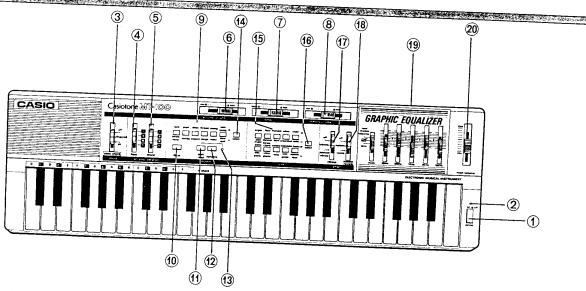
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1. Nomenclature



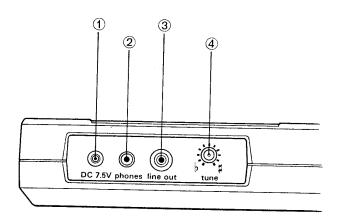
- ① Main power indicator
- 2 Main power switch
- 3 Casio Chord switch
- 4 Bass selector
- (5) Chord selector
- (6) Accomp. volume control
- Tempo control

- Melody volume control
- Rhythm selection buttons
- 10 Fill-in button
- 1 Start/Stop button
- 12 Synchro Start button
- Tempo lamp
- 14 Select button

- 15 Tone color selection buttons
- ® Select button
- T Vibrato switch
- ® Sustain/Reverb. switch
- (9) Graphic Equalizer section
- 20 Main volume control

4 Nomenclature

2. Rear Panel (Connection jacks & Pitch control)



1 AC adaptor jack

For connection of AC adaptor AD-1 or car battery adaptor CA-1.

2 Headphone jack

For connection of headphone (optional).

3 Output jack

For connection of audio equipment or keyboard amplifier. Volume can be adjusted using keyboard volume control

4 Pitch control knob

Adjusts pitch of entire keyboard within ±1/4 tone to facilitate tuning with other instruments.

3. Power Supply

The unit operates on both AC and DC power.

(DC power) Dry batteries:

The unit can be powered five D size (SUM-1) manganese dry batteries. Weakened batteries will result in lower volume or poor tonal quality. The power indicator lamp will gradually lose its brightness when battery power weakens. At this time, change batteries or switch to one of the alernate power sources mentioned below.

Battery replacement:

- 1. Slide open the battery compartment cover on the bottom of the unit and take out used batteries.
- 2. Insert new batteries, taking care that polarity is correct.
- * It is advisable to replace all five batteries at the same time for longer battery life.
- * Refer to the specifications for standard battery life.

Car battery adaptor:

With the car battery adaptor (CA-1, optional), DC power is supplied from a car battery through the cigarette lighter socket.

(AC power)

An AC adaptor (AD-1, optional) is required to connect to an AC outlet.

Use only an adaptor with the same voltage rating (100, 117, 220, or 240V) as the power supply in your area to prevent component damage. Using an adaptor will automatically cut off the battery power supply.

- * Remove batteries from the battery compartment when the unit is not used for extended periods. (Battery leakage can damage electrical parts.)
- Auto power-off function

An automatic power cut-off function activates approximately 6 minutes, after the last operation of the unit. Power supply can be restored by switching the main power switch off and then on again.

6 Power Supply

-CAUTION-

- * ONLY USE A CASIO AC ADAPTOR TO PREVENT DAMAGE TO THE UNIT.
- * The adaptor normally warms up when connected to an AC outlet. Disconnect the adaptor whenever possible, especially if the unit is not used for a extended periods.

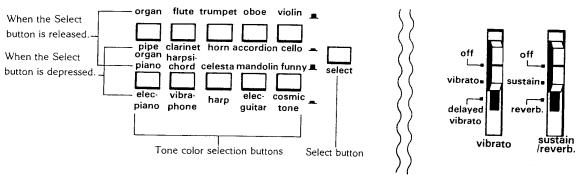
The following may cause batteries to burst:

- Use of an AC adaptor other than a genuine Casio adaptor.
- 2. Insertion of batteries with their polarities (+, -) reversed.

Power Supply

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4. Preset Tone Colors & Sound Effects



Selecting a preset tone color

Select one of the 20 tone colors by pressing the corresponding button. Each button has 2 tone colors. The tone color selected depends upon whether the Select button is depressed or released.

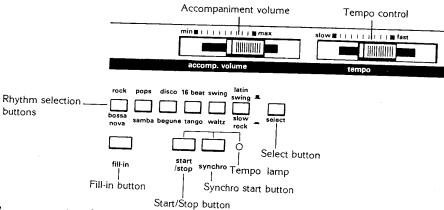
Adding sound effects

VIBRATO, DELAYED VIBRATO, SUSTAIN and REVERBERATION effects can be added by sliding each switch to the corresponding position.

Vibrato	For slight, rapid variations in the
	pitch of a sound. For a vibrato effect that is delayed
	for a slight interval after pressing a
Sustain	key. For a sound that lingers after the
Reverb	keys are released. For concert hall ambience.

8 Preset Tone Colours & Sound Effects

5. Auto-rhythm



Selecting an auto-rhythm

Select one of the 12 auto-rhythms by pressing a Rhythm selection button. When the Select button is released (____), the rhythm noted above the button is selected. When depressed (____), the rhythm noted below is selected.

Fill-in button

Pressing during rhythm play will cause a fill-in (percussive ornament) to be performed.

Tempo lamp

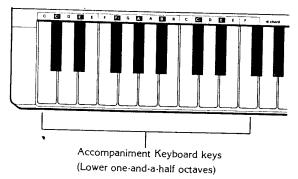
Blinks on first beat of each measure. When the Synchro button is pressed, this lamp stays lit to indicate that the instrument is ready to play.

Start/Stop button

Press to start or stop Rhythm.

Synchronizing auto-rhythm and autoaccompaniment [Using the Synchro button]

To synchronize auto-rhythm and auto-accompaniment, first select an auto-rhythm and then press the Synchro button. A red lamp will light above the Synchro button to indicate that the instrument is ready to play. When one of the accompaniment keyboard keys (see illustration below) is pressed, the rhythm, synchronized with auto-accompaniment will begin to play. (For auto-accompaniment, see next page.)



Accomp. volume control

Adjusts volume of Auto-rhythm.

- * If main volume control is at minimum setting, no rhythm sound can be heard.
- Tempo control

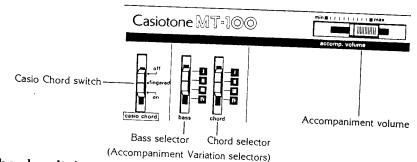
Adjusts tempo of Auto-rhythm.

10 Auto-rhythm

6. Auto-accompaniment

The auto-accompaniment function of this model offers two ways to play chords. One is the normal way in which three or four notes are played at the same time. The other

is an easier way known as the "One-finger method", which is accomplished using the Casio Chord system.



Casio Chord switch

Turns auto-accompaniment on and off.

offFor normal play without auto-accompaniment.

fingered :.....For auto-accompaniment playing chords as usual.

onFor auto-accompaniment using the Casio Chord system.

* If the Casio Chord switch is set to "fingered" or "on", the lower one-and-a-half octaves of the keyboard become accompaniment keyboard keys, and the upper part of the keyboard becomes 4-note polyphonic.

Accompaniment Variation selectors

Four kinds (I to IV) of bass and chord patterns can be selected for each rhythm. Set each selector to any position according to your choice of accompaniment.

Auto-accompaniment

- * These selectors do not function if auto-accompaniment is not used, (i.e., if the Casio Chord switch is set to "off").
- * The sounds of bass and chords vary according to which one of the 12 auto-rhythms and which type of Accompaniment variation is selected.
- * Set the two selectors to position I for the basic accompaniment style for each rhythm.
- Accompaniment volume
 Adjusts the volume of the accompaniment.

[1] Auto-accompaniment using the Casio Chord System (One-finger Method)

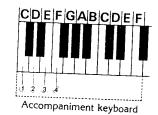
The Casio Chord system has been developed to facilitate the play of four main types of chords. Pressing one of the accompaniment keyboard keys produces the major chord corresponding to that note. Adding any key to the right (two keys at the same time) results in a minor chord. Pressing one more key to the right (three keys in all) produces a seventh chord, and pressing a fourth key (four keys in all) creates a minor seventh chord.

(Example)

C (C major chord)—Press ①.
Cm (C minor chord)—Press ①, ② together.
C₇ (C seventh chord)—Press ①, ②, ③ together.

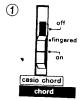
Cm₇ (C minor seventh chord)—Press ①, ②, ③, ④ together.

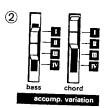
* Not only ②, ③ and ④, but any black or white keys can be used as long as they are to the right of ①.



12 Auto-accompaniment

- ① Set the Casio Chord switch to "on".
- $\ensuremath{\mathfrak{D}}$ Set the Accompaniment Variation selectors (bass & chord) to any position.
- 3 Select one of the auto-rhythms and press the Synchro Start button.
- * The lamp above the Synchro Start button lights up meaning that the accompaniment keyboard keys are ready for play.
- Use the accompaniment keyboard keys to select the desired chords.
- * Adjust the tempo and accompaniment volume using the respective controls.

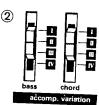




[2] Auto-accompaniment playing chords as usual.

- ① Set the Casio Chord switch to "fingered".
- ② Set the Accompaniment Variation selectors (bass & chord) to any position.
- 3 Select one of the auto-rhythms and press the Synchro Start button.
- * The lamp above the Synchro Start button lights up meaning that the accompaniment keyboard keys are ready for play.
- Play a chord using the accompaniment keyboard keys.
 Adjust the tempo and accompaniment volume using the respective controls.

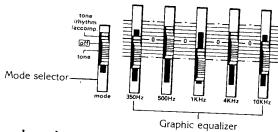




Auto-accompaniment

7. Graphic Equalizer

The graphic equalizer function is used to make fine tone quality adjustments. It permits control of the frequency response through five sectors 350 Hz, 500 Hz, 1 KHz, 4 KHz and 10 KHz. "O" denotes the normal position. Sliding the switch up toward + increases the frequency response, and sliding it down toward - decreases the frequency response.



(mode selector)

OffFor normal tone quality without graphic equalizer.

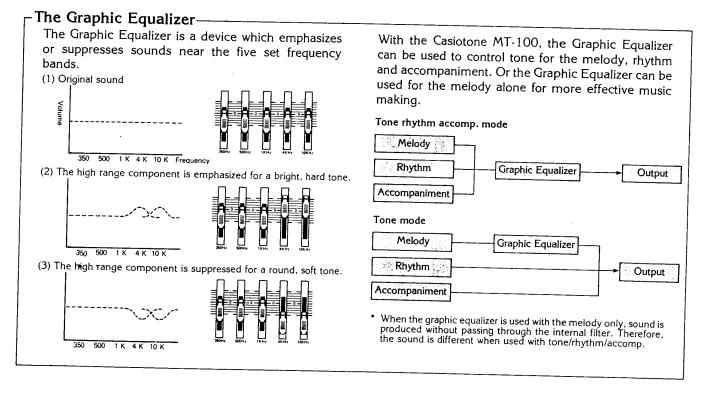
Tone/Rhythm/Accomp. modeFor tone quality adjustment of melody, rhythm and accompaniment using graphic equalizer.

Tone modeFor tone quality adjustment of melody using graphic equalizer.

Effect in Each Band

	Laci Dalla		
Graphic Equalizer	Overall (tone/rhythm/chord)	Melody (tone	
350 Hz	Strong effect on bass.	• Increased tone depth.	
500 Hz	Strong effect on bass and melody.Raising too high may distort sound.	• Increased tone depth.	
1 kHz	 Melody, rhythm, chord and bass. Raising too high may distort sound. 	Increased tone depth.Unique tones.	
4 kHz	 Melody, rhythm, chord and bass all become sharp. Unique cymbal effect. Sounds like effector being used. 	• Unique tone.	
10 kHz	 Strong effect on high hat. Increased brightness of such sounds as harpsichord and celesta. 	Unique tones.Noisy.	
The range			

The range of variations is ± 10 dB (approx.) in each band.



Basic Settings

The three types of settings shown below are often used, but with the MT-100, settings 1 and 2 can be most effectively used.

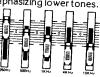
(1) Modulation emphasizing upper and lower tones.



(2) Light and sharp emphasizing upper tones.



(3) Increased intensity and depth emphasizing lower tones



Example Applications a) Overall (tone/rhythm/chord)

545 C 511 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I assess the same of the same	
Setting	1 Graphic Equalizer	- Remarks +
Auto- accom- paniment	rock rock rock rock rock rock rock rock	 Lively rhythm and accompani- ment.
Auto- accom- paniment	Story Story Story 12.81 Story Story	 Subdued bass and accompani- ment. Prominent melody and rhythm.

b) Melody (b-1) Modulation

	(D-1) Modu	lation	
	Setting	Graphic Equalizer	Remarks
	harpsi- Chord	1000 130011 10011 1101 1101 11011	• 4 kHz can also be set at 0.
	trumpet	(Ora (Cora (• Delayed vibrato/on.
	accordion	100m 100m	
1	cosmic tone	Total Solution Soluti	• Delayed vibrato/on, sustain/on.

(b-2) Light and sharp

(b-2) Light	t and sharp		
Setting	Graphic Equalizer		7.70
celesta	160-0 (16		RemarksSustain/on.Bright celesta.
vibra- phone	1000 S S S S S S S S S S S S S S S S S S		 Reverb/on. Sounds like synthesized glocken- spiel.
elec. guitar	10 mm (Ny 10 mm) (Ny 1	•	Sounds like clarinet.
violin	Torse Composition	• [Bright, high violin tone.

(b-3) Other

#Setting	Graphic Equalizer	⊹⊮ Remarks
organ	10-10 17-17-17-17-17-17-17-17-17-17-17-17-17-1	Reverb/onSounds like Pipe organ
oboe	Tone According to the control of th	• Unique oboe sound (lower tone)

8. Care of Your Unit

1. Avoid heat, humidity or direct sunlight.

Do not overexpose the unit to direct sunlight, place it near heater or in any area subject to high temperatures.

2. Take care not to drop the unit and avoid severe impacts.

Severe impacts can result in malfunction. When carrying or transporting the unit, protect the keyboard and switches by packing with soft cloth.

3. Keep the unit free of liquids, dust, particles etc.

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

4. Never attempt to modify any part of the unit.

Your keyboard is a precision musical instrument made up of sophisticated electronic parts. Any modification of or tampering with internal components can cause trouble or malfunction.

5.Do not use a lacquer thinner or similar chemicals for cleaning.

Clean the keyboard with a soft cloth dampened with a mild detergent. (Soak the cloth in a detergent and squeeze until almost dry.)

6.In case of malfunction...

When the unit does not work properly, check whether switches, connections, etc. are set correctly as indicated in the troubleshooting chart on page 20 of this manual. If the unit still does not work, contact the original retailer or a nearby dealer. Never attempt to repair the unit yourself. This can result in serious damage of components.

Care of Your Unit

9. Troubleshooting

* For any malfunction, always check battery condition first. (see page 6)

Trouble	Possible Cause	
No sound, even if keys are pressed.	Main volume turned down. Headphones connected.	Remedy 1. Turn up main volume. 2. Disconnect headphones.
No rhythm.	Rhythm volume turned down.	Turn up rhythm volume.
No accompaniment.	Bass and chord volume turned down.	Turn up bass and chord volume.
Occasional interference.	Refrigerators, washing machines and similar electric appliances.	Use outlet as far away as possible from applicance thought to be the cause.
No sound when con- nected to external amplifier.	Main keyboard volume turned down. Defective connection cord.	Turn up main volume. Replace connection cord.

10. Specifications

Model:	Casiotone MT-100	
Number of keys:		
Preset tone colors:	49 keys (mini-key)	
	organ, mile frimpet	
Sound effect:	Vibrato, Delayed vibrato, Sustain, Reverb, Graphic equality (25.0)	
Auto-rhythms:	. 12 kinds; rock, pops, disco, 16 beat, swing, latin swing, bossa nova, samba, beguine, tango, waltz, slow rock * Start/Stop button, Synchro start button, Fill-in button, Accompaniment volume, Tempo	
A • • 4	Casio Chord switch (fingered/on), Accompaniment variation selectors (bass & chord), + 1/4 tops (50)	
itch control:	\pm 1/4 tone (50 cents)	
nesta.	8.0 cm dia. × 1 (output 1 W)	
Iltmad !	Output impedance = 6 K Ω , Output voltage = 2 V (RMS)	

Specifications 21

Power source:	3-way AC/DC power source; • Home AC outlet: 100, 117, 220 or 240 V (± 10 V), 50/60Hz, with optional AC adaptor AD-1 • DC: Batteries: Five Desire and the source of the
	• Car battery: with car battery adams. Car batteries. Battery life = Approx. 19 b
Power consumption:	3 W
Auto power off function:	After 6 minutes
Dimensions:	62(H) × 633(W) × 188mm(D)
weight:	2.6 Kg. (including batteries)
Standard accessories:	Five D-size manganese dry batteries
Design and specificatio	ns are subject to change without

ign and specifications are subject to change without notice.