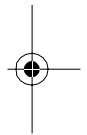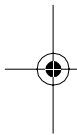**OWNER'S MANUAL**
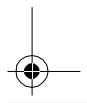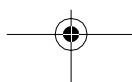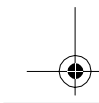
CONCERTMATE-580
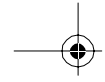# Portable Electronic Keyboard

Please read before using this equipment.

illustration

Cat. No. 42-4028

Radio Shack

FEATURES

Your Radio Shack Concertmate-580 Portable Electronic Keyboard is a state-of-the-art musical instrument with many exciting features. You can set the keyboard to sound like 100 different musical instruments or sound effects. To accompany your music, the keyboard has 16 different preset rhythms, as well as auto-accompaniments and percussion sounds.

Your Concertmate-580's features include:

Built-In Demonstration Tune — lets you hear a sample of what you and the Concertmate-580 can do.

100 Sounds — let you set your Concertmate-580 to sound like anything from a harpsichord to a honky-tonk piano when you press a key.

16 Auto-Rhythms — give you a steady beat for several styles of music from rhumba to slow rock.

Tempo Control — lets you speed up or slow down the tempo of any selected music pattern.

Fill In Rhythm — lets you insert a short variation into any auto-rhythm.

Automatic Intro Rhythm — lets you set the Concertmate-580 to automatically add a short introduction to the selected auto-rhythm.

Auto Accompaniment — lets you automatically play a preset harmonic pattern to match the selected auto-rhythm.

Transpose Function — lets you instantly change the key of the music, even while you are playing.

Two Built-In Speakers — provide excellent sound to help make your music come alive.

Output Jack — lets you connect headphones so you can play without disturbing others, or an external amplifier so you can play for a crowd.

Three Power Options — let you power the keyboard from internal batteries (not supplied), standard AC power (with an optional adapter), or your vehicle's cigarette lighter socket (with an optional adapter) so you can make music almost anywhere.
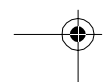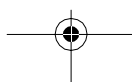
To fully enjoy the features and functions of this electronic keyboard, please read this manual carefully and completely.

Note: This owner's manual explains how to use this electronic keyboard. It does not teach music.

For your records, we recommend that you write your Concertmate-580's serial number in the space below. The serial number is located on the bottom of the Concertmate-580.
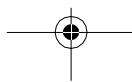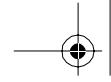
Serial Number _____

THE FCC WANTS YOU TO KNOW

This keyboard complies with the limits for a Class B digital device as specified in Part 15 of FCC Rules. These limits provide reasonable protection against radio and TV interference in a residential area. However, your keyboard might cause TV or radio interference even when it is operating properly. To eliminate interference, you can try one or both of the following corrective measures:

• Increase the distance between the keyboard and the radio or TV

• Use outlets on different electrical circuits for the keyboard and the radio or TV

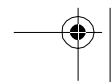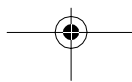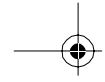Consult your local Radio Shack store or an experienced radio/TV technician if the problem still exists.

3

CONTENTS

PREPARATION

POWERING YOUR KEYBOARD

You can power your Concertmate-580 in any of these ways.

- Internal batteries (see "Using Batteries")

- Standard AC power using an optional AC adapter (see "Using AC Power" on Page 6)

- A vehicle's cigarette lighter socket using an optional DC adapter (see "Using Vehicle Battery Power" on Page 6)

Notes:

- Connecting an AC or DC adapter automatically disconnects internal batteries.

- Always disconnect an adapter when you finish using the Concertmate-580.

Using Batteries

Your Concertmate-580 can use six C batteries (not supplied) for power. For the best performance, we recommend alkaline batteries, such as Radio Shack Cat. No. 23-551.

Caution: Only use fresh batteries of the required size and type.

1. Press the tabs on the battery compartment cover, then pull up to remove the cover.

illustration

2. Put the batteries in the compartment as indicated by the polarity symbols (+ and –) marked inside.

illustration

3. Replace the cover.

Notes:

- If you won't be using the Concertmate-580 with batteries for a week or more, remove the batteries.

- If the Concertmate-580 sounds weak or does not work properly, replace all six batteries. Do not mix old and new batteries.

Caution: Dispose of old batteries promptly and properly.
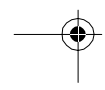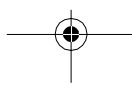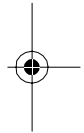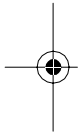
Using AC Power

You can power your Concertmate-580 from a standard AC outlet using a 9-volt AC adapter (not supplied), such as Radio Shack Cat. No. 273-1651.

Cautions:

- You must use an AC adapter that supplies at least 9 volts, but no more than 12 volts, and delivers at least 500 milliamps. Its center tip must be set to positive, and its plug must correctly fit the Concertmate-580's **DC9–12V IN** jack. The recommended adapter meets these specifications. Using an adapter that does not meet these specifications could damage the Concertmate-580 or the adapter.

- Always plug the AC adapter into the Concertmate-580 before you plug it into the AC outlet. Always unplug the AC adapter from the AC outlet before you unplug it from the Concertmate-580.

illustration

1. Plug the blue-tipped barrel plug into the cable so it reads + TIP (positive).
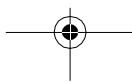
2. Insert the adapter's barrel plug into the **DC9–12V IN** jack on the back of the Concertmate-580.

3. Plug the adapter into a standard AC outlet.

Using Vehicle Battery Power

You can power your Concertmate-580 from your vehicle's cigarette lighter socket using a 12-volt DC adapter (not supplied), such as Radio Shack Cat. No. 270-1562.

Cautions:

- You must use a DC adapter that supplies at least 9 volts, but no more than 12 volts, and delivers at least 500 milliamps. Its center tip must be set to positive, and its plug must properly fit the Concertmate-580's **DC9-12V IN** jack. The recommended adapter meets these specifications. Using an adapter that does not meet these specifications could damage the Concertmate-580 or the adapter.

- Always plug the DC adapter into the Concertmate-580 before you plug it into the cigarette lighter socket. Always unplug the DC adapter from the cigarette lighter socket before you unplug it from the Concertmate-580.

To connect a pair of headphones, insert the headphones' $1/_8$-inch plug into the **HEADPHONES/AUX. OUT** jack on the back of the keyboard.

illustration

1. Plug the blue-tipped barrel plug into the cable so it reads + TIP (positive).

2. Set the adapter's voltage switch to 12 volts.

3. Insert the adapter's barrel plug into the **DC9–12V IN** jack on the back of the Concertmate-580.

4. Plug the other end of the adapter into the vehicle's cigarette lighter socket.

CONNECTING HEADPHONES

To listen to your Concertmate-580 without disturbing others, you can connect a pair of $1/_8$-inch plug stereo headphones (not supplied). Your local Radio Shack sells a wide selection of headphones.

Note: Connecting headphones disconnects the Concertmate-580's built-in speakers.

Listening Safely

To protect your hearing, follow these guidelines when you use headphones.

• Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable level.

• Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.

• Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.
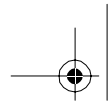
CONNECTING AN EXTERNAL AMPLIFIER

To amplify your Concertmate-580's sound, you can connect it to an external amplifier (not supplied) using a $1/8$-inch plug audio cable (not supplied).

To connect an external amplifier to your keyboard, insert the cable's plug into the **HEADPHONES/AUX. OUT** jack on the back of the keyboard, and connect the other end of the cable to the amplifier's input jack(s) (such as AUX IN or TAPE IN).

illustration
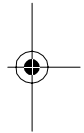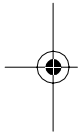
Your local Radio Shack store sells a full line of amplifiers, speakers, and connection cables.
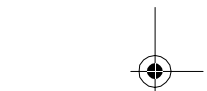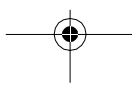
A LOOK AT YOUR KEYBOARD

illustration
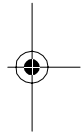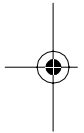
1. ORCHESTRA 00-99
2. Tones List
3. POWER Switch
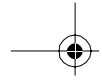4. MASTER VOL. Control
5. TEMPO Buttons
6. ORCHESTRA Button and Indicator
7. RHYTHM Button
8. CHORD OFF Button and Indicator
9. SINGLE FINGER Button
10. FINGERED Button
11. PERCUS OFF Button
12. TRANSPOSER Buttons
13. ORCHESTRA/RHYTHM SELECT Buttons
14. Percussion Pads
15. RHYTHM VOL. Buttons
16. INTRO/FILL IN Button
17. SYNCHRO Button
18. VIBRATO Button
19. RHYTHM 00-15 Rhythms List
20. A.B.C. VOL. Buttons
21. START/STOP Button
22. SUSTAIN Button
23. DEMO Button
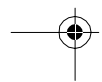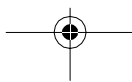
OPERATION

BASIC OPERATION

1. Set **MASTER VOL.** (volume) to **MIN** (minimum).

illustration

Important: To prevent hearing damage, always set the Concert-mate-580's volume to its lowest level (**MIN**) before you turn it on and before you begin playing it again after changing the settings.

2. To turn on the Concertmate-580, slide **POWER** to **ON**. The red BEAT LAMPS and ORCHESTRA indicators turn on.

illustration

3. To hear some of the Concertmate-580's many different sounds, play the demonstration tune (see "Playing the Demonstration Tune" on Page 11).

   To make your own music, simply begin playing the keyboard.

Notes:

- The Concertmate-580 automatically selects the tone PIANO 1 (No. 00) each time you turn it on. To select a different tone, see "Using the Preset Tones" on Page 11.

- To select an auto-rhythm, see "Using the Preset Auto-Rhythms" on Page 12.

- To play a harmonic auto-accompaniment, see "Using Auto Bass Chord (A.B.C) Auto Accompaniment" on Page 16.

4. Adjust **MASTER VOL.** to the desired setting. Slide it toward **MAX** (maximum) to increase the volume, or toward **MIN** (minimum) to decrease it.

illustration

5. To turn off the Concertmate-580, slide **POWER** to **OFF**. The BEAT LAMPS and all other indicators turn off.

10
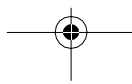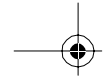
PLAYING THE DEMONSTRATION TUNE

Your Concertmate-580 can play a pre-programmed demonstration tune, *Puff the Magic Dragon©*, to showcase its many sounds.

1. To start the demonstration tune, press **DEMO**. The Concertmate-580 begins to continuously play the demonstration tune.

illustration

Note: The demonstration tune is pre-programmed to automatically use certain preset tones and rhythms each time it starts or repeats. While the demonstration tune is playing, however, you can:

- Change the preset tone (see "Selecting/Playing a Preset Tone")

- Change the preset rhythm (see "Selecting/Playing an Auto-Rhythm" on Page 13)

- Adjust the tempo (see "Selecting/Playing an Auto-Rhythm" on Page 13)

2. Adjust **MASTER VOL.** to the desired setting.

3. To turn off the demonstration tune at any time, press **DEMO** again.

USING THE PRESET TONES

Your Concertmate-580 can sound like 100 different musical instruments or sound effects. The name and two-digit number of each preset tone is listed on the Concertmate-580's top panel.

illustration

Note: The following preset tones do not follow the musical scale when played, but change slightly as you play them in different octaves on the keyboard:

- 87 SYNTH TOM 1
- 88 SYNTH TOM 2
- 89 SNARE DRUM
- 91 EMERGENCY ALARM
- 98 MACHINE GUN
- 99 WAVE

Selecting/Playing a Preset Tone

1. The ORCHESTRA indicator automatically turns on each time you turn on the Concertmate-580. If the ORCHESTRA indicator is not on, press **ORCHESTRA**.

11
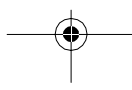
illustration

The Concertmate-580 also automatically selects the tone PIANO 1 (No. 00) each time you turn it on.

2. To play a tone other than PIANO, choose a preset tone from the ORCHESTRA 00-99 tones list, then enter its two-digit number on the ORCHESTRA / RHYTHM SELECT keypad. For example, to select JAZZ ORGAN (No. 13), press **1** then **3**.

illustration

Note: To select the next highest or lowest numbered tone, you can simply press **+** or **–** on the keypad.

3. Play the keyboard to hear the selected tone.

4. Adjust **MASTER VOL.** to the desired level.

5. To select a different tone, repeat Steps 1 and 2.

USING THE PRESET AUTO-RHYTHMS

Your Concertmate-580 has 16 preset auto-rhythms that provide a steady beat for your music. The name and two-digit number of each preset auto-rhythm is listed on the Concertmate-580's top panel.
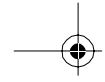
illustration

You can play a preset auto-rhythm on the Concertmate-580 in the following ways:

• Select and play a rhythm (see "Selecting/Playing an Auto-Rhythm" on Page 13).

• Synchronize the start of a rhythm with your music (see "Using SYN-CHRO" on Page 14).

• Start a rhythm with a special introduction (see "Using INTRO" on Page 15).

• Briefly vary the pattern of a rhythm (see "Using FILL IN" on Page 15).

Adjusting the Rhythm Volume

The Concertmate-580 lets you adjust the volume of the auto-rhythm separately from the overall volume of the keyboard. To increase or decrease the rhythm volume, press **RHYTHM VOL. +** or **–**.

illustration

Selecting/Playing an Auto-Rhythm

1. If the ORCHESTRA indicator is on, press **RHYTHM** to turn it off.

illustration

The Concertmate-580 automatically selects the rhythm RHUMBA (No. 00) each time you turn it on.

2. To select a rhythm other than RHUMBA, choose an auto-rhythm from the RHYTHM 00-15 list and enter its two-digit number on the ORCHESTRA/RHYTHM SELECT keypad. For example, to select DISCO (No. 05), press **0** then **5**.
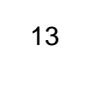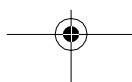
illustration

Note: To select the next highest or lowest numbered auto-rhythm, you can simply press **+** or **–** on the keypad.

3. Press **START/STOP** to start the selected auto-rhythm. The BEAT LAMP indicators flash in time with the beat, and the keyboard plays the selected rhythm.

illustration

13

4. To slow down the auto-rhythm, repeatedly press **TEMPO** t. To speed it up, repeatedly press **TEMPO** s.

illustration

Notes:

• You can adjust **TEMPO** s/t to play an auto-rhythm from 48 to 240 beats per minute.

• To reset the tempo to its default (original) speed (120 beats per minute), press both **TEMPO** s and t at the same time. The auto-rhythm begins playing at the original speed.

5. Play the keyboard to hear the selected preset tone along with the auto-rhythm.

6. Adjust **MASTER VOL.** and/or **RHYTHM VOL.** to the desired level.

7. To select a different rhythm, repeat Steps 1 and 2.

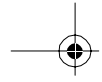8. To stop the auto-rhythm, press **START/STOP** again.

Using SYNCHRO

The Concertmate-580's SYNCHRO feature lets you synchronize the start of an auto-rhythm with the beginning of your music.

After you select and enter an auto-rhythm, press **SYNCHRO** so the red BEAT LAMPS indicator flashes, then begin playing the keyboard. The rhythm automatically starts to play and all BEAT LAMPS indicators start flashing to the beat when you press any key within the first $1^1/_2$ octaves of the lower end of the keyboard (the first 19 keys from the left side of the keyboard).

illustration
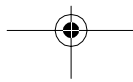
Using INTRO

The Concertmate-580's INTRO feature lets you start the selected auto-rhythm with a light, 1-measure introduction that blends easily into the selected rhythm.

To start a rhythm with an introduction, select and enter the rhythm, then press **INTRO/FILL IN**. The BEAT LAMPS indicators begin to flash, the introduction plays, then the selected auto-rhythm automatically starts. You can begin play at any time.
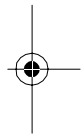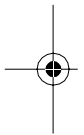
illustration

Using FILL IN

The FILL IN feature lets you insert a short (1- to 2-measure) variation in the beat pattern of a selected auto-rhythm.

To insert a short variation in a beat pattern, press and release **INTRO/FILL IN** while the auto-rhythm is playing. The Concertmate-580 inserts a 1- to 2-measure variation (depending on which auto-rhythm is selected), then the original rhythm automatically resumes at the end of the current measure.

illustration

Note: To insert the variation for longer than 1 to 2 measures, press and hold **INTRO/FILL IN**. The Concertmate-580 plays the variation until you release the button.

15
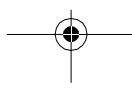
USING AUTO BASS CHORD (A.B.C) AUTO ACCOMPANIMENT

illustration

The 19 keys on the left side of the keyboard with note labels above them are called accompaniment keys. You can set the Concertmate-580 to play the following two different types of auto-accompaniment.

- *Easy Random Fingering* — lets you play chords on the accompaniment keys using chord formations of one to three notes. The number of keys you press determines the type of chord that plays (see "Easy Random Fingering" on Page 17).

- *Standard Fingering* — lets you play chords on the accompaniment keys using standard chord formations of three or four notes (see "Standard Fingering" on Page 18).

Notes:

- You can use the Concertmate-580's rhythm controls (**INTRO/FILL IN** and **SYNCHRO**) with both types of auto-accompaniment.

- If you press **INTRO/FILL IN**, the keyboard automatically starts the auto-rhythm on the first beat that sounds after the last BEAT LAMPS indicator turns on, so you know when to begin the auto-accompaniment.

  After you press the auto-accompaniment keys, the Concertmate-580 plays the same chord until you press other keys to play a different chord or until you press **START/STOP**.

- To return to normal play on the Concertmate-580 after using any type of auto-accompaniment, press **CHORD OFF** so the indicator above **CHORD OFF** turns off.

illustration

Adjusting the Accompaniment Volume

The Concertmate-580 lets you adjust the volume of your accompaniment separately from the overall volume of the keyboard. To increase or decrease the accompaniment volume, press **A.B.C. VOL. +** or **−**.

illustration

16
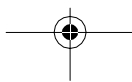
Easy Random Fingering

The easy random fingering method lets beginning keyboard players easily select and play a chord.

The number of accompaniment keys you press determines the type of chord played. The following table shows the type of chord that plays when you press one, two, or three accompaniment keys at the same time.

Number of Keys Pressed	Chord Type
1	Major
2	Minor (m)
2	Seventh (7)
3	Minor Seventh (m7)

Note: See "Single Finger Chord Chart" on Page 25 for a list of all the chords you can play on your Concertmate-580 using easy random fingering.

Follow these steps to start easy random fingering auto-accompaniment.

1. Press **SINGLE FINGER** so the red indicator above **CHORD OFF** turns on.

illustration

2. Select and enter an auto-rhythm.

3. To synchronize the start of the selected auto-rhythm with your accompaniment, press **SYNCHRO** so the red BEAT LAMPS indicator flashes.

   To start the auto-rhythm before your auto-accompaniment, press **INTRO/FILL IN**.

4. Begin the accompaniment at the desired interval by pressing the desired accompaniment key(s).

   To play a melody along with the accompaniment, press any key(s) to the right of the accompaniment keys.

5. Adjust **TEMPO** s/t, **MASTER VOL.**, **RHYTHM VOL.**, and **A.B.C. VOL.** to the desired levels.

6. To change chords without interrupting the rhythm, simply press the auto-accompaniment key(s) required to form the new chord.

7. To stop auto-accompaniment and auto-rhythm, press **START/STOP**.
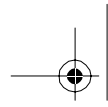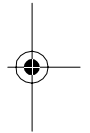
Standard Fingering

The standard fingering method uses standard formations of three or four notes, and lets the experienced musician play a wider variety of accompaniment chords.

You can play the following 15 chord types on your Concertmate-580, in any key, using the standard fingering method.
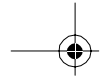
illustration

Note: The diagrams above show only one possible fingering position for each chord. It is possible to play a chord using several different positions. For example, the following three fingering positions produce the same C chord.

illustration

18
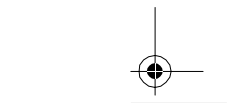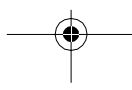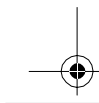
Note: See "Standard Fingering Chord Chart" on Page 26 for a list of all the chords you can play on your Concertmate-580 using standard fingering accompaniment.

Follow these steps to start standard fingering auto-accompaniment.

1. Press **FINGERED** so the red indicator above **CHORD OFF** turns on.

illustration

2. Select and enter an auto-rhythm.

3. To synchronize the start of the selected auto-rhythm with your accompaniment, press **SYNCHRO** so the red BEAT LAMPS indicator turns on.

   To start the auto-rhythm before your auto-accompaniment, press **INTRO/FILL IN**.

4. Begin the accompaniment at the desired interval by pressing at least three accompaniment keys to play the desired chord.

   To play a melody along with the accompaniment, press any key(s) to the right of the accompaniment keys.

5. Adjust **TEMPO** s/t, **MASTER VOL**., **RHYTHM VOL.**, and **A.B.C. VOL.** to the desired levels.

6. To change chords without interrupting the rhythm, simply press the auto-accompaniment keys required to form the new chord.

7. To stop auto-accompaniment and auto-rhythm, press **START/STOP**.
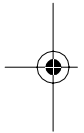
19
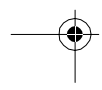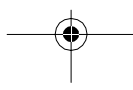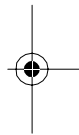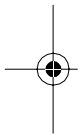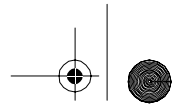
SPECIAL FEATURES

USING THE PERCUSSION PADS

The Concertmate-580's percussion pads put the sound of five different percussion instruments — bass drum, conga, snare drum, hi-hat, and cymbal — at your fingertips.

To play a percussion pad sound, simply press the desired pad at any time during play. The keyboard plays the selected percussion sound once each time you press the pad. Repeatedly press the pad to play the selected sound several times in a row.
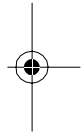
illustration

Note: The Concertmate-580 has nine sound channels. This means that you can play and hear up to nine notes at one time on the keyboard.

The percussion pads automatically turn on each time you press any one of the pads. While turned on, the percussion pads use three of the nine available sound channels. To turn off the percussion pads and free-up those sound channels, press **PERCUS OFF** so its red indicator turns off.

illustration

USING SUSTAIN

The Concertmate-580's sustain feature lets you give your music a "lingering" effect, making the note(s) sound for a short time after you stop pressing the key(s). To turn on the sustain feature, simply press **SUSTAIN** before or during play.
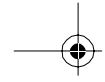
illustration

To turn off sustain, press **SUSTAIN** again.
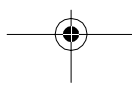
USING VIBRATO

The Concertmate-580's vibrato feature lets you give your music a "wavering" effect, slightly varying the pitch of notes as you press the keys. To turn on the vibrato feature, simply press **VIBRATO** before or during play.

illustration

To turn off vibrato, press **VIBRATO** again.

Note: Turning on **SUSTAIN** along with **VIBRATO** lets you produce a more exaggerated vibrato sound.

CHANGING KEYS

The Concertmate-580 automatically selects the tone of middle C each time you turn it on.

For added flexibility as you make music, the Concertmate-580 lets you change (transpose) the musical key it plays in.

To quickly raise the key one octave, press **ONE OCTAVE**. The red indicator beneath **TRANSPOSER** turns on. Press **ONE OCTAVE** again to return to middle C. The indicator turns off.

illustration

To raise or lower the key $1/2$-tone, press **TRANSPOSER** s or t. The red indicator beneath **TRANSPOSER** turns on.

illustration

Note: You can change the Concertmate-580's key to within ±12 $1/2$-tones (6 whole tones) of middle C with **TRANSPOSER**.
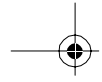
To reset the keyboard to its default key (middle C), press **TRANSPOSER** s and t at the same time so the red indicator beneath **TRANSPOSER** turns off.
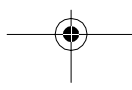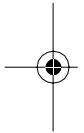
TROUBLESHOOTING

If the Concertmate-580 is not performing as it should, these suggestions might help. If you still cannot solve the problem, take the keyboard to your local Radio Shack store for assistance.

Trouble	Possible Cause	Remedy
No sound, even if keys are pressed.	1. **POWER** is set to **OFF**. 2. **MASTER VOL.** is turned down. 3. Headphones are connected. 4. Power supply problem.	1. Set **POWER** to **ON**. 2. Turn up **MASTER VOL.** 3. Disconnect headphones. 4. Check the power supply. • Are battery symbols (+/–) facing correctly? • Are the batteries fresh? • Is the AC adapter connected correctly?
No rhythm.	**MASTER VOL.** or **RHYTHM VOL.** is turned down.	Adjust **MASTER VOL.** or **RHYTHM VOL.**
No accompaniment.	1. **MASTER VOL.** or **A.B.C. VOL.** is turned down. 2. Accompaniment button not pressed.	1. Adjust **MASTER VOL.** or **A.B.C. VOL.** 2. Press **SINGLE FINGER** or **FINGERED**.
Occasional sound interference.	A refrigerator, washing machine, or similar electric appliance is causing interference.	Use an outlet on a different electrical circuit than the interfering appliance.
No sound when connected to an external amplifier.	1. **POWER** is set to **OFF**. 2. **MASTER VOL.** is turned down. 3. Defective connection cord. 4. Problem with external amplifier.	1. Set **POWER** to **ON**. 2. Turn up **MASTER VOL.** 3. Replace the connection cord. 4. Check the external amplifier.

CARE AND MAINTENANCE

Your Radio Shack Concertmate-580 Portable Electronic Keyboard is an example of superior design and craftsmanship. The following suggestions will help you care for your Concertmate-580 so you can enjoy it for years.

Keep the Concertmate-580 dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.

Handle the Concertmate-580 gently and carefully. Dropping it can damage circuit boards and cases and can cause the keyboard to work improperly.

Use and store the Concertmate-580 only in normal temperature environments. Temperature extremes can shorten the life of electronic devices and distort or melt plastic parts.

Keep the Concertmate-580 away from dust and dirt, which can cause premature wear of parts.

Wipe the Concertmate-580 with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the Concertmate-580.

Modifying or tampering with the Concertmate-580's internal components can cause a malfunction, might invalidate its warranty, and void your FCC authorization to use it. If your Concertmate-580 is not performing as it should, take it to your local Radio Shack store for assistance.
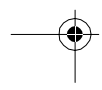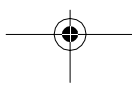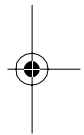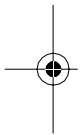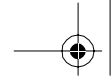
SPECIFICATIONS

Number of Keys 49

Polyphonic Sound .... 9-note (Max.)

Preset Tones 100

Auto-Rhythm 16

Rhythm Controls ....TEMPO, INTRO/FILL IN, SYNCHRO, START/STOP

Effects ....SUSTAIN, VIBRATO, TRANSPOSER, ONE OCTAVE

Accompaniments ....SINGLE FINGER, FINGERED, CHORD OFF

Demo .... 1 Song: *Puff the Magic Dragon*

Percussion Pads .... BASS DRUM, SNARE DRUM, CONGA, CYMBAL, HI-HAT

Volume Controls............................... MASTER VOL., A.B.C. VOL., RHYTHM VOL.

Built-in Speakers... 3.5 Inch $\times$ 2 (4 ohm)

Terminals... HEADPHONES/AUX OUT, DC9–12V In

Power Sources... DC: 6 C batteries (Cat. No. 23-551)
AC: 120V, 60Hz, with AC adapter (Cat. No. 273-1651)
Vehicle Battery: 9-12V, with DC adapter (Cat. No. 270-1562)

Power Consumption.. 4.5W

Dimensions (HWD) ....$3^3/_8 \times 26^{15}/_{16} \times 12^{13}/_{16}$ Inches
($86 \times 685 \times 325$ mm)

Weight (Without Batteries) .... 4 lbs 10 oz (181 gm)
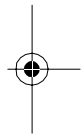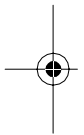
Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.
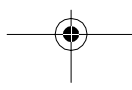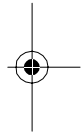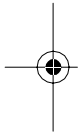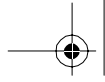
SINGLE FINGER CHORD CHART

illustration

SINGLE FINGER CHORD CHART
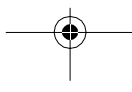
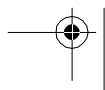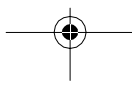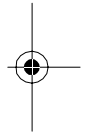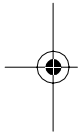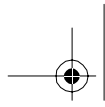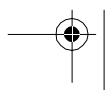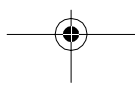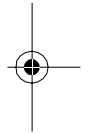# STANDARD FINGERING CHORD CHART

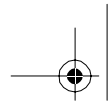*illustration*

STANDARD FINGERING CHORD CHART (PG 1)

illustration

STANDARD FINGERING CHORD CHART (PG 2)

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A Division of Tandy Corporation
Fort Worth, Texas 76102
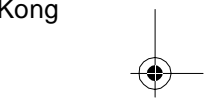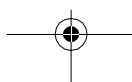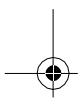
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