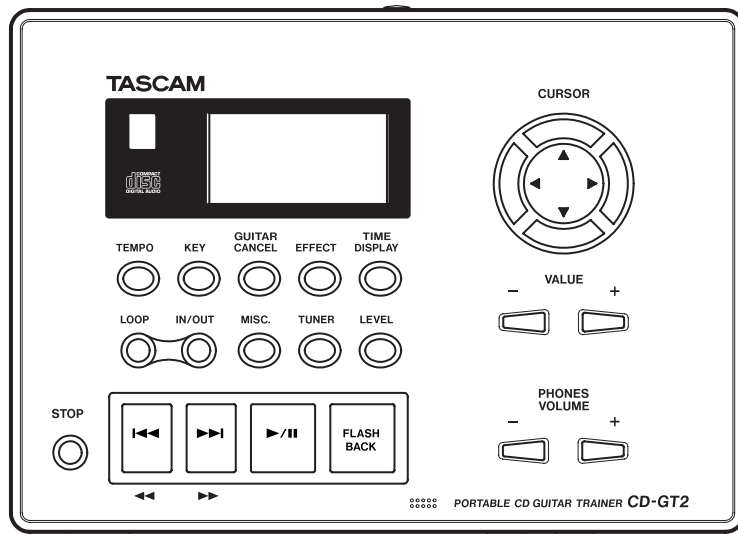# TASCAM
TEAC Professional Division

CD-GT2

Portable CD Guitar Trainer

This device has a serial number on the rear panel. Please record it and retain it for your records.

Serial number:

_____

OWNER'S MANUAL

IMPORTANT SAFETY PRECAUTIONS

CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

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

FOR U.S.A.

TO THE USER

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 instruction manual, 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.

a) Reorient or relocate the receiving antenna.

b) Increase the separation between the equipment and receiver.

c) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

d) Consult the dealer or an experienced radio/TV technician for help.

CAUTION
Changes or modifications to this equipment not expressly approved by T E A C CORPORATION for compliance could void the user's authority to operate this equipment.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT SAFETY INSTRUCTIONS

1 Read these instructions.

2 Keep these instructions.

3 Heed all warnings.

4 Follow all instructions.

5 Do not use this apparatus near water.

6 Clean only with dry cloth.

7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11 Only use attachments/accessories specified by the manufacturer.

12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
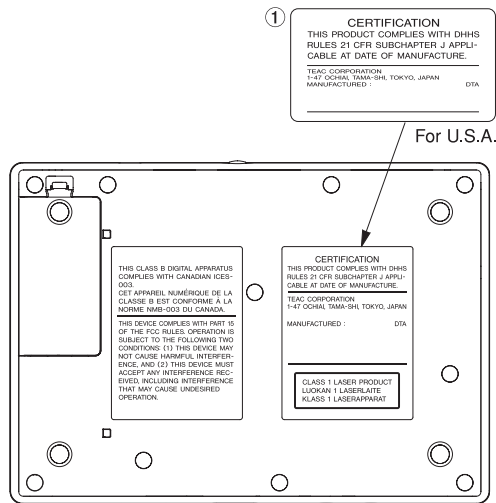

13 Unplug this apparatus during lightning storms or when unused for long periods of time.

14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.Do not expose this apparatus to drips or splashes.

• Do not place any objects filled with liquids, such as vases, on the apparatus.

• Do not install this apparatus in a confined space such as a book case or similar unit.

• The apparatus draws nominal non-operating power from the AC outlet with its STANDBY/ON in the Standby position.

• The apparatus should be located close enough to the AC outlet so that you can easily grasp the power cord plug at any time.

• An apparatus with Class I construction shall be connected to an AC outlet with a protective grounding connection.

• Batteries (battery pack or batteries installed) should not be exposed to excessive heat such as sunshine, fire or the like.

• Excessive sound pressure from earphones and headphones can cause hearing loss.

SAFETY INFORMATION

This product has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter J, based on the Radiation Control for Health and Safety Act of 1968," and is classified as a class 1 laser product. There is no hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings.

The label required in this regulation is shown at ①.

① CERTIFICATION
THIS PRODUCT COMPLIES WITH DHHS
RULES 21 CFR SUBCHAPTER J APPLI-
CABLE AT DATE OF MANUFACTURE.

TEAC CORPORATION
1-47 OCHIAI, TAMA-SHI, TOKYO, JAPAN
MANUFACTURED :   DTA

For U.S.A.

THIS CLASS B DIGITAL APPARATUS
COMPLIES WITH CANADIAN ICES-
003.
CET APPAREIL NUMÉRIQUE DE LA
CLASSE B EST CONFORME À LA
NORME NMB-003 DU CANADA.

THIS DEVICE COMPLIES WITH PART 15
OF THE FCC RULES. OPERATION IS
SUBJECT TO THE FOLLOWING TWO
CONDITIONS (1) THIS DEVICE MAY
NOT CAUSE HARMFUL INTERFER-
ENCE, AND (2) THIS DEVICE MUST
ACCEPT ANY INTERFERENCE REC-
EIVED, INCLUDING INTERFERENCE
THAT MAY CAUSE UNDESIRED
OPERATION.

CERTIFICATION
THIS PRODUCT COMPLIES WITH DHHS
RULES 21 CFR SUBCHAPTER J APPLI-
CABLE AT DATE OF MANUFACTURE.

TEAC CORPORATION
1-47 OCHIAI, TAMA-SHI, TOKYO, JAPAN

MANUFACTURED :   DTA

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

CAUTION
- DO NOT REMOVE THE PROTECTIVE HOUSING USING A SCREWDRIVER.
- USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
- IF THIS PRODUCT DEVELOPS TROUBLE, CONTACT YOUR NEAREST QUALIFIED SERVICE PERSONNEL, AND DO NOT USE THE PRODUCT IN ITS DAMAGED STATE.
- CLASS 1M INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. DO NOT VIEW DIRECTORY WITH OPTICAL INSTRUMENTS.

The CD-GT2 uses either a SANYO or a TOHEI transport.

Optical pickup:

Type: DA23Z1F
Manufacturer: SANYO Electric Co., Ltd.
Laser output: Less than 0.3 mW on the objective lens
Wavelength: 775 to 800 nm

Type: TCT-23T
Manufacturer: HONG KONG TOHEI E.M.C. Co., Ltd
Laser output: Less than 0.3 mW on the objective lens
Wavelength: 775 to 800nm

For Chaina

产品有毒有害物质或元素的名称及含量

机种：CD-GT2		有毒有害物质或元素					
品名		铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(Ⅵ))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
1	CHASSIS部份	○	○	○	○	○	○
2	CD DRIVE部份	○	○	○	○	○	○
3	螺丝部份	○	○	○	○	○	○
4	线材部份	○	○	○	○	○	○
5	PCB Assy部份	✕	○	○	○	○	○
6	SEAL部份	○	○	○	○	○	○
7	附属品部份	○	○	○	○	○	○
8	包装部份	○	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含有量均在 SJ/T11363-2006 标准规定的限量要求以下。

✕：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。
（针对现在代替技术困难的电子部品及合金中的铅 ）

Contents

Introduction

Thank you for purchasing the TASCAM CD-GT2.

This CD player allows you to change the playback speed of recorded music without changing its pitch, making it ideal for guitar practice. If you are trying to learn a part that is too difficult to catch at ordinary playback speed, you can use this player to slow the playback to a speed that makes learning the notes easier. You can also plug your guitar into the unit and mix your own playing with music from a CD.

Features of this device

CD player functions
- Change playback speed without changing pitch
- Change pitch without changing playback speed
- Reduce the recorded lead guitar sound during CD playback
- Loop playback of passages that you select

Other functions
- Operates with batteries (4 AA) or an AC adapter (sold separately)
- Guitar effects built-in
- Mic effects built-in
- Play along on guitar as you listen to a CD
- Tuner built-in
- Metronome built-in
- Headphone jack and line output jack
- Operate with a footswitch (sold separately)

Using this manual

This manual includes a Quick Start Guide and reference chapters.
The Quick Start Guide explains the basics, from preparation and standard CD playback to the use of effects, in a step-by-step manner. Read this when you want to use the CD-GT2 after purchase. Please note that not all functions are explained in this section.
The reference chapters explain the use of every control key and all the CD-GT2 functions in detail. It also includes specifications and other information. Please read this part because it also has cautionary warnings and other important details about using the unit.

Accessories

- Owner's Manual (this manual) 1
- Warranty card 1
- Troubleshooting guide 1

Please contact TASCAM if any of these items are missing.

Introduction

About this manual

When we refer to a key or connector or control on the CD-GT2, the typeface looks like this: **PLAY**.

When we refer to items shown on the display, the typeface looks like this: MENU.

Environmental considerations

The CD-GT2 may be used in most places, but you should observe the following environmental conditions to maintain top performance and prolong operating life:

- The nominal temperature should be between 5°C and 35°C (41°F and 95°F).
- Relative humidity should be 30 to 90 percent.
- As the unit may become hot during operation, always leave sufficient space above the unit for ventilation. Do not install this unit in a confined space such as a bookcase, and do not put anything on top of the unit.
- Avoid installing this unit on top of any heat-generating electrical device such as a power amplifier.
- Make sure that the unit is mounted in a level position for correct operation.

Beware of condensation

If the unit (or a compact disc) is moved from a cold to a warm place, or used after a sudden temperature change, there is a danger of condensation. Vapor in the air could condense on the internal mechanism, making correct operation impossible. To prevent this, or if this occurs, let the player sit for one or two hours at the new room temperature before using.

Cleaning the unit

Wipe dirt from the unit with a dry cloth. Never use thinner, benzene or other solvents because they may cause acrylic parts and coated surfaces to dissolve, labels to be eroded or other damage.

Introduction

Handling of compact discs

The CD-GT2 has been designed for the playback of CD-DA (standard audio) format discs. In addition to ordinary 5-inch and 3-inch CDs, it can also play properly recorded CD-R and CD-RW discs.

- Always insert a compact discs into the unit with its label facing upward.
- To remove a disc from its case, press down on the center of the disc holder, then lift the disc out, holding it carefully by the edges.


- Avoid getting fingerprints on the signal side (the non-label side). Grime and dust may cause skipping, so keep discs clean and store them in their cases when not being played. To clean the signal side of a disc, wipe gently with a soft dry cloth from the center towards the outside edge.

- Do not use any record spray, anti-static solutions, benzene, paint thinner or other chemical agents to clean CDs as they could damage the delicate playing surface. It may cause CDs to become unplayable.
- Discs should be returned to their cases after use to avoid serious scratches that could cause the laser pickup to "skip."
- Keep discs away from direct sunlight and places of high heat and humidity. If left in such places, warping could result.
- Do not affix any labels or stickers to the label side of the disc. Do not write on the disc with a ballpoint pen.
- Do not insert discs that have adhesive remaining from tape or stickers that have been removed. If they are inserted into the player, they could stick to the internal mechanism, requiring removal by a technician.
- Do not use cracked discs.
- Only use circular compact discs. Avoid using promotional, discs and other discs that are not circular.
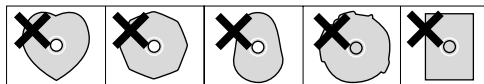
- The CD-GT2 cannot play unfinalized CD-R/RW discs.
- Music discs with copy control, a copy-protection system, have been released from several record companies in an attempt to protect their copyrights. Since some of these discs do not comply with the CD specifications, they might not be playable on the CD-GT2.

Introduction

Batteries

If batteries are used improperly, or if leakage or breakage occurs, the unit will not function.

Please observe the cautions indicated on the batteries and their packaging to ensure proper usage.

- Confirm + and – polarity and follow the indications when inserting new batteries into the unit.
- Do not use old and new batteries together.
- Even if batteries are the same size, their voltage may differ. Do not use batteries of different specifications together.
- Do not attempt to recharge batteries that are non-rechargeable.
- Do not open or disassemble batteries, throw them into a fire or put them in water.

Inserting batteries

1   **Open the lid.**

2   **Confirm +/- polarity, and insert four AA batteries.**

3   **Close the lid.**
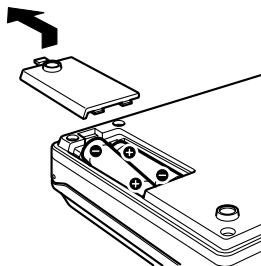
NOTE

This device does not include batteries when purchased. We recommend nickel hydride or alkaline batteries.

Quick Start Guide—Basic Operation

Let's start using the unit right away. In this section, we will teach you the basics, including how to setup the unit, play a CD, connect your guitar and play along with prerecorded music.

Preparation

Turn the power on
Remove the battery case cover from the underside of the unit, and insert four ordinary AA batteries, aligning them with the + and – symbols inside the case. (See "Batteries" on page 10.)

Turn the power ON after inserting the batteries.
Press and hold the **POWER** switch on the rear of the unit for about one second. Release it when "TASCAM" appears on the display. Start-up completes after a few seconds and the TIME DISPLAY screen appears.

NOTE
You can also use a PS-P520 AC adapter (sold separately) for power instead of batteries. Connect the AC adapter to the DC IN 5V jack on the rear of the unit.

Setting a CD
All the controls for this device are on the CD tray cover. The **OPEN** switch is on the front of the unit. Slide it left and open the tray cover. Put a CD in the CD tray and press it into place gently until the disc clicks. Close the tray cover after setting the CD.
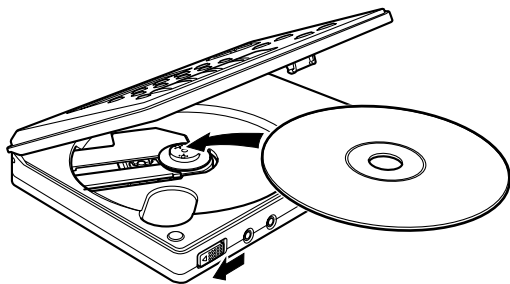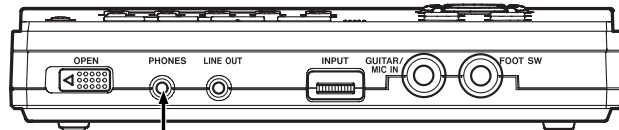

NOTE
The keys cannot be used when the tray cover is open.

Quick Start Guide—Basic Operation

Connecting headphones

Connect headphones to the PHONES jack on the front of the unit. Turn the volume down to the minimum level using the PHONES VOLUME (–) key on the control panel.
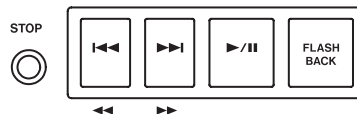

Headphones

NOTE

Use the LINE OUT jack when monitoring with an audio system or speakers with built-in amplification.

Playback

Playing a CD

Press the ▶/❙❙ key to start. Press the ▶/❙❙ key again to pause playback. Press the STOP key to stop playback. Press the ❙◀◀ or ▶▶❙ key to skip to the beginning of the previous or next track. Press and hold the ▶▶❙ or ❙◀◀ key during playback to fast forward (▶▶) or fast reverse (◀◀) through the current track. Press the FLASH BACK key during playback to jump to the point three seconds earlier in the current track.

NOTE

You can change the number of seconds that pressing the FLASH BACK key jumps in the track. (See "Jumping back a few seconds (Flash Back)" on page 24.)

Quick Start Guide—Basic Operation

Adjusting the volume

Use the **PHONES VOLUME (+, –)** keys to adjust the headphones volume.

PHONES VOLUME

– +

Changing playback tempo

Press the **TEMPO** key to open the TEMPO CHANGE screen. With the TEMPO value selected as shown below, use the **VALUE (+, –)** keys to change the tempo value.

When the product is shipped new, the VSA function is ON, allowing tempo to be changed without changing the pitch.

VSA TMP KEY G.C

▶ ↻ALL22Trk 1m57s

TEMPO CHANGE

TEMPO :-10

FIX_PITCH :VSA ON

VALUE

– +
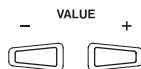
NOTE

To change the pitch along with the tempo, use the ▼ CURSOR *key on the* TEMPO CHANGE *screen to select the* FIX PITCH *item, and then use the* – VALUE *key to select* VSA OFF*.*

Playing guitar

Connecting a guitar

Connect a guitar to the **GUITAR/MIC IN** jack on the front of the unit. Before connecting, turn the **INPUT** dial next to the jack down to 0. Turn the volume up after connecting.

Guitar

OPEN PHONES LINE OUT INPUT GUITAR/MIC IN FOOT SW
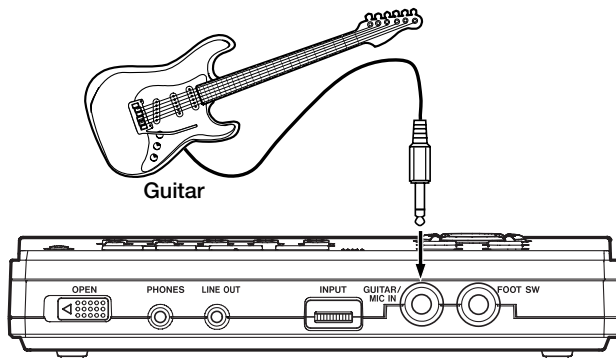
NOTE

You can also connect a mic to this jack. Switch to mic input mode in this case. (See "Setting the input" on page 29.)

Quick Start Guide—Basic Operation

Using the Effects

To apply effects to your guitar sound, press the **EFFECT** key to open the EFFECTOR screen. When the BANK value is highlighted as shown below, use the **VALUE (+, –)** keys to select one of the effect banks (01–10).

After selecting an effect bank, select an effect preset by using the down **CURSOR** (▼) key to highlight the PRESET value. Then use the **VALUE (+, –)** keys to select a preset. Each preset uses a different combination of effect modules. (See the "Effect preset lists" on page 40.)

Press the right **CURSOR** key (▶) to open the effect level adjustment screen. Use the **VALUE (+, –)** keys to change the level.
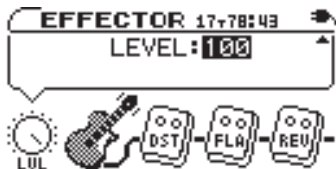
NOTE

You can change the parameter settings for every effect. (For details, see "Using built-in effects" on page 30.)

Playing guitar along with a CD

You can listen to the sound from both a CD and your guitar at the same time through headphones. To change the volume balance between the CD and the guitar, press the **LEVEL** key to open the LEVEL screen. Press the right **CURSOR** key (▶) twice to highlight the IN LEVEL value, then use the **VALUE (+, –)** keys to adjust the guitar volume. (See "Adjusting the input level" on page 29)

Turning off the power

When you stop using the player, press the **POWER** switch on the back of the unit for about one second. Release the switch when "TRAINER SERIES" appears on the display.

Restore all settings to original values

If you press and hold both the ⏮ and ⏭ keys when you turn the player power ON, the INITIALIZE screen appears. After startup, follow the onscreen instructions and press the ▶/❙❙ key to restore every effect parameter, playback setting and other adjustable setting to the values they were set at when they unit was shipped from the factory.

About Power

Using batteries

See "Batteries" on page 10 for information about installing batteries.

Battery level display

When using batteries, the battery icon in the upper right part of the display shows the approximate remaining power level of the batteries.

The remaining power level of the batteries is high.

The remaining power level of the batteries is about half of the original amount.

The remaining power level of the batteries is low.

The batteries are out of power and the unit power is about to turn OFF. Put in new batteries.

Battery life
- Fully charged new nickel hydride batteries: about 6.5 hours
- Alkaline batteries: about 5 hours

NOTE

Since this product has special functions, including CD playback tempo alteration and guitar effects, battery life is shorter compared to other portable CD players.

Battery life varies according to use conditions, including temperature, humidity and the ON/OFF status of the various special functions.

When the remaining power level of the batteries you are using is low, the player may not function properly even though the battery icon shows that the remaining power level is high. In this case, change the batteries or use an AC adapter.

Operation with an AC adapter

Use the TASCAM PS-P520 (sold separately) AC adapter. Do not use any other adapter because this may cause the player to malfunction.

Connect the DC plug from the AC adapter to the **DC IN 5V** jack on this device and connect the AC plug to a standard outlet.

About Power

TASCAM
PS-P520
（sold separately）

AC outlet

DC PLUG

DC IN 5V   POWER
◇-●-◇   (PRESS 1 SEC)
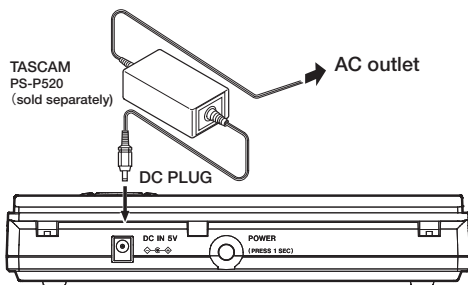
When using the AC adapter, "➡" appears in the upper right of the display.

NOTE

Unplug the AC adapter when not using the unit.

Turning the power ON and OFF

Press and hold the **POWER** switch on the rear of the unit for about one second to turn its power ON. Release the button when the screen below appears on the display.

TASCAM
CD-GT2

Startup completes in a few seconds and the TIME DISPLAY screen appears.

To turn the power OFF, press and hold the **POWER** switch on the rear of the unit for more than one second. Release the button when the screen below appears on the display.

NOTE

*Always use the* POWER *switch to turn the power ON and OFF. When the unit is operating, if you disconnect the power adapter or remove the batteries to turn the power OFF, your settings may not be saved. All the settings might even be initialized, reverting them to their default values.*

When using this player with batteries, the power turns OFF temporarily if you remove or connect the AC adapter.

Names and functions of parts

Control panel
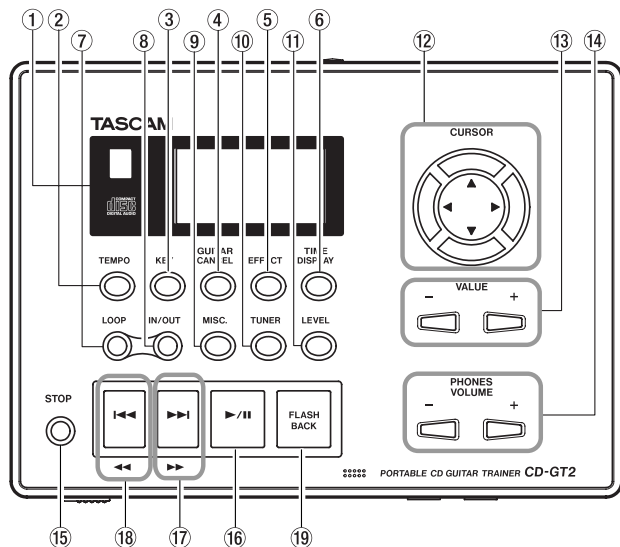
① **Display**
Shows CD status during playback, device settings and other information.

② **TEMPO key**
Press this key to open the TEMPO CHANGE screen. You can change the playback tempo and turn the VSA function ON and OFF on this screen. (See "Changing the tempo" and "Changing the pitch with the tempo" on page 25.)

③ **KEY key**
Press this key to open the KEY & PITCH screen. You can change the playback pitch on this screen. (See "Changing only the pitch" on page 26.)

④ **GUITAR CANCEL key**
Press this key to open the GUITAR CANCEL screen. Turn the guitar cancel function ON and OFF and change its settings on this screen. (See "Reducing the sound of recorded guitars" on page 26.)

⑤ **EFFECT key**
Press this key to open the EFFECTOR screen. Make guitar and mic effect settings on this screen. (See "Using built-in effects" on page 30.)

⑥ **TIME DISPLAY** key
Press this key to open the TIME DISPLAY screen, which shows the status of the CD during playback and other information. (See "TIME DISPLAY screen" on page 21.)

⑦ **LOOP key**
Turns the loop playback and repeat playback functions ON and OFF. When IN and OUT points are set, this key turns

Names and functions of parts

loop playback ON and OFF. When they are not set, it turns repeat playback ON and OFF. (See "Loop playback" on page 27 and "Repeat playback" on page 28.)

⑧ **IN/OUT key**
Use this key to set the loop playback IN and OUT points. (See "Loop playback" on page 27.)

⑨ **MISC. key**
Press this key to open the SETUP & MISC. screen. Set and use the metronome and make various device settings on this screen.

⑩ **TUNER key**
Press this key to open the TUNER screen. Use this screen for help tuning your instrument. (See "Using the tuner" on page 33.)

⑪ **LEVEL key**
Press this key to open the LEVEL screen. Select whether to use the **GUITAR/MIC IN** jack for guitar input or mic input and make independent adjustments for the input signal and CD playback volumes on this screen. (See "Using guitars and mics" on page 29.)

⑫ **CURSOR (▲, ▼, ◄, ►) keys**
Select among setting items on the screen with these keys.

⑬ **VALUE (+, –) keys**
Change the value of the item selected on the screen.

⑭ **PHONES VOLUME (+, –) keys**
Adjust the volume sent to your headphones using these keys. The PHONES VOLUME screen appears during adjustment.

⑮ **STOP key**
Stops a CD that is playing or paused.

⑯ **►/II key**
Starts playback of a stopped or paused CD. Pauses a playing CD.

⑰ **►►I, ►► key**
Press briefly to skip to the next track. Press and hold this key to fast forward through a track that is playing or paused. Press and hold this key when the CD is stopped to automatically skip forward (increment) though the tracks.

⑱ **I◄◄, ◄◄ key**
Press briefly to skip to the previous track. Press and hold this key to fast reverse through a track that is playing or paused. Press and hold this key when the CD is stopped to automatically skip backward (decrement) though the tracks.

⑲ **FLASH BACK key**
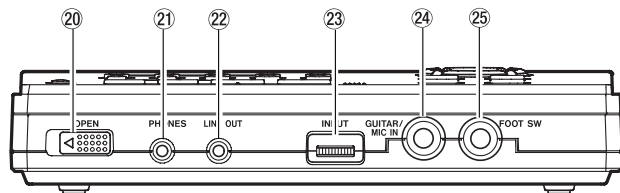Press during playback to jump to a point in the track a few seconds earlier and continue playback. Set the number of seconds in the **SETUP & MISC.** screen. (See "Jumping back a few seconds (FLASH BACK)" on page 24.)

Names and functions of parts

Front

⑳ **OPEN switch**
Slide this switch away from the **PHONES** jack to open the control panel and insert and remove discs.

㉑ **PHONES jack** (stereo minijack)
Connect headphones to this jack to output the CD playback signal and the input signal from the **GUITAR/MIC IN** jack.

㉒ **LINE OUT jack** (stereo minijack)
Outputs the CD playback signal and input signal from the **GUITAR/MIC IN** jack. Connect an audio system, speakers with built-in amplifiers or similar equipment.

㉓ **INPUT dial**
Adjusts the input level of the **GUITAR/MIC IN** jack signal.

㉔ **GUITAR/MIC IN jack** (standard phone jack)
Connect an electric guitar or microphone.

㉕ **FOOT SW jack** (standard phone jack)
Connect a TASCAM RC-30P or other momentary footswitch (non-latching). Set the footswitch function on the SETUP & MISC. screen.

Rear
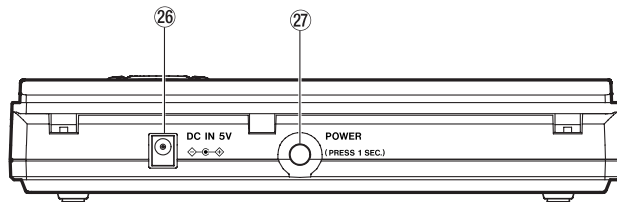
㉖ **DC IN 5V jack**
Connect a TASCAM PS-P520 AC adapter (sold separately).

㉗ **POWER switch**
Turn the power ON and OFF. Press and hold the switch for more than one second to turn the power ON and OFF.

Making connections
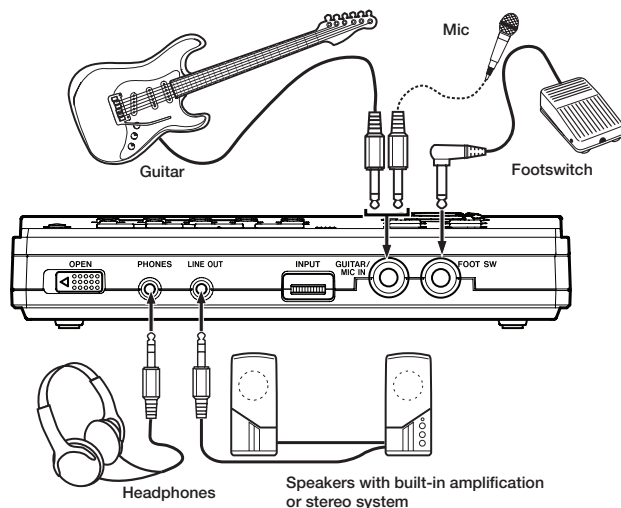
- **PHONES** jack: headphones
- **LINE OUT** jack: audio system, speakers with built-in amplifiers, etc. (Use a conversion cable as necessary.)
- **GUITAR/MIC IN** jack: guitar or mic
- **FOOT SW** jack: TASCAM RC-30P or other momentary footswitch (non-latching)
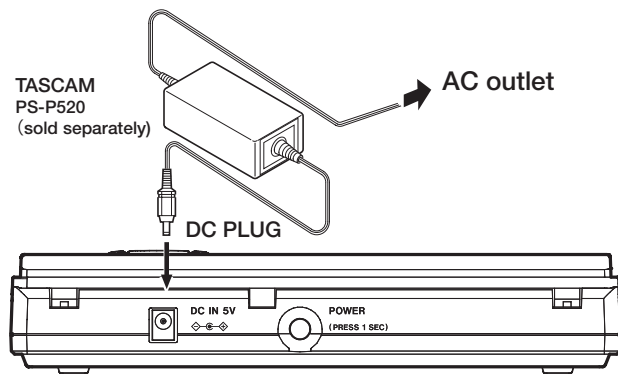
- **DC IN 5V**: PS-P520 AC adapter (sold separately) (See "Operation with an AC adapter" on page 15.)

Screen appearance and operation

Screen overview

The unit display shows one of the following screens according to the active function. All of these screens can be opened by pressing their dedicated keys. The TIME DISPLAY screen also appears immediately after the unit's power is turned ON.

Screens	Keys
TIME DISPLAY	TIME DISPLAY
TEMPO CHANGE	TEMPO
KEY & PITCH	KEY
GUITAR CANCEL	GUITAR CANCEL
EFFECTOR	EFFECT
LEVEL	LEVEL
TUNER	TUNER
SETUP & MISC.	MISC.
PHONES VOLUME	PHONES VOLUME (+, –)

TIME DISPLAY screen

The TIME DISPLAY screen appears immediately after the player's power is turned ON.
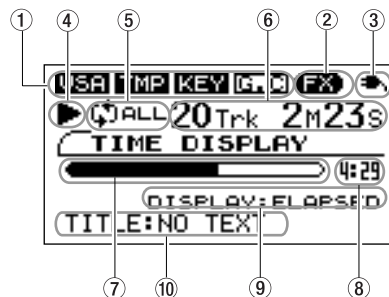
① VSA, TMP, KEY, G.C icons
The VSA, tempo change, key change and guitar cancel icons appear in inverse when their functions are on.

② FX icon
This icon lights when the guitar or mic effects are operating.

③ Power status indicator
Shows the status of batteries when they are in use (See "Using batteries" on page 10.). "🔌" appears when AC power is in use.

Screen appearance and operation

④ Playback status
When the CD is playing (►), paused (❚❚), fast forwarding (►►), or fast reversing (◄◄) the corresponding icon appears. No icon appears when playback is stopped.

⑤ Playback mode
When the loop mode, repeat mode or single mode is ON, its corresponding icon appears. (See "Loop playback" on page 27, and "Repeat playback" and "Selecting the play mode" on page 28.)

⑥ CD time display
Shows the CD time. Set the displayed time mode on the SETUP & MISC. screen. (See "Setting the time display" on page 37.)

⑦ CD playback position
Shows the current playback position of the CD with a bar display.

⑧ Time elapsed/remaining
Depending on the setting, shows the elapsed time or remaining playback time of the current track or the total remaining playback time of the CD. (See "Setting the time display" on page 37.)

⑨ CD time display mode
Shows the CD time display mode. (Settings cannot be made on this screen.)

⑩ Title
When playing a CD with CD text data, the titles of the CD and playing track appear.

Screen appearance and operation

Other screens

Shared features

The screen name, power status, CD player operation status, track number and CD playback time are shown on every screen.

The EFFECTOR, LEVEL and TUNER screens appear as follows. All other screens appear the same as the TIME DISPLAY screen. (See the "TIME DISPLAY screen" on page 21.)

Track number, time, play status

Screen name — EFFECTOR 16▾ 0:13 ▶ 🔋 — Power status

BANK : 01
PRESET : Dst+Flanger+Dly ▾
100

Display of playback functions (VSA, TMP, KEY, G.C)

The status of every playback function is shown at the top of the TEMPO screen, KEY & PITCH screen, GUITAR CANCEL screen, and SETUP & MISC. screen in the same way as on the TIME DISPLAY screen.

Settings

Every screen other than the TIME DISPLAY screen has settings. See "Making settings" on page 23 for details.

Making settings

Settings and selections can be made as necessary on every screen except the TIME DISPLAY screen. Use the **CURSOR** and **VALUE** keys as necessary to make settings and selections.

Selecting items for setting

Use the **CURSOR** (▲, ▼) keys.

The value of the selected item is shown in highlighted in inverse.

On the EFFECTOR and LEVEL screens, some items are selected by the **CURSOR** (◄, ►) keys.
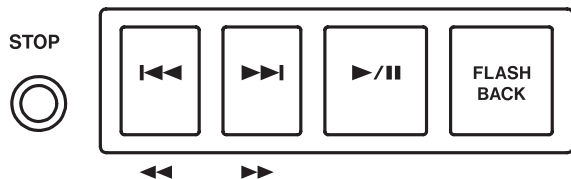
NOTE

When there are other items above or below the items currently onscreen ▲ or ▼ appears on the right side of the screen.

Setting item values

Use the **VALUE** (+, –) keys. The selected values (settings) take effect immediately. (Confirmation is not necessary.)

Listening to CDs

Basic CD playback

Starting playback
When the CD is stopped or paused, press the ▶/II key to start playback.

Stopping playback
When the CD is playing, press the **STOP** key to stop playback.

Selecting tracks
Press the ▶▶I or I◀◀ key when the CD is playing, paused or stopped to skip to the beginning of the previous or next track. Press and hold the ▶▶I or I◀◀ key when stopped to increase or decrease the track number.

Searching forward and backward
Press and hold the ▶▶I or I◀◀ key when the CD is playing or paused during playback to fast forward or fast reverse.

Jumping back a few seconds (FLASH BACK)

Press the **FLASH BACK** key during playback when you want to jump back to a point a few seconds in the track and continue play. The initial default setting for this jump is 3 seconds, but you can set it between 1 and 5 seconds using the following procedure.

1   **Press the MISC. key to open the** SETUP & MISC. **screen.**

2   **Use the CURSOR (▲, ▼) keys to select** FLASH BACK**.**

3   **Use the VALUE (+, –) keys to set the value between one and five seconds (**1s–5s**).**

Listening to CDs

Adjusting the volume

When listening through headphones, use the **PHONES VOLUME (+, –)** keys to adjust the volume.
When you use the **PHONES VOLUME** keys, the PHONES VOLUME screen appears showing the headphones output level as a numerical value and a bar. After a few seconds, the display automatically returns to the previous screen.

```
VSA TMP KEY G.C                    ➡
▶ ♻ALL22Trk  1M14s
 PHONES VOLUME
                        LEVEL: 14
🎧 ▭▬▬▬▭▭▭▭
   VOL-            VOL+
```

Changing the tempo

You can change the playback tempo, slowing it by up to 50%.
1 **Press the TEMPO key to open the** TEMPO CHANGE **screen.**

2 **When the** TEMPO **item is selected, use the VALUE (+, –) keys to adjust the tempo (%).**

```
VSA TMP KEY G.C                    ➡
▶ ♻ALL22Trk  1M57s
 TEMPO CHANGE
TEMPO     : -10
FIX_PITCH : VSA ON
```

When the TEMPO value is set to anything other than 0, the tempo mode is ON, and playback follows the set tempo. TMP appears in inverse at the top of the screen.

NOTE

Press both VALUE (+, –) *keys simultaneously to reset the tempo adjustment to 0.*

Changing the pitch with the tempo

When the Variable Speed Audition (VSA) function is ON, the playback pitch of a track does not change when the tempo is changed. If you want the pitch rise and fall as the tempo is increased and decreased like conventional tempo control, turn the VSA function OFF. (The default setting for VSA is ON.)
1 **Press the TEMPO key to open the** TEMPO CHANGE **screen.**

2 **Use the CURSOR ▼ key to select the** FIX PITCH **item, and the VALUE (–) key to select** VSA OFF**.**

Listening to CDs

When the VSA function is OFF, the VSA icon at the top of the screen appears normally.

Changing only the pitch

You can change the pitch without changing the tempo.
1   Press the KEY key to open the KEY & PITCH **screen.**

2   With the KEY item selected, use the VALUE (+, −) keys to adjust the pitch up or down in semitones.

The KEY item allows the pitch to be raised or lowered 1 to 6 semitones (♭6 – #6). Any setting other than 0 changes the playback pitch and the KEY display icon appears in inverse.

3   Use the CURSOR ▼ key to select the FINE PITCH **item and the VALUE (+, −) keys to make minute adjustments to the pitch in cents (1/100 semitone).**

NOTE

Select the KEY *or* FINE PITCH *item and press both* **VALUE (+, −)** *keys simultaneously to reset the adjustment of that setting to 0.*

Even if the KEY *item setting is "0", the* KEY *icon at the top of the screen appears in inverse if* FINE PITCH *is adjusted.*

Reducing the sound of recorded guitars

You can reduce the recorded sound of guitars on a CD.
1   Press the GUITAR CANCEL key to open the GUITAR CANCEL **screen.**

2   With the CANCEL item selected, use the VALUE (+, −) keys to turn the setting ON.

When the guitar cancel function is ON, the **G.C** icon at the top of the screen appears in inverse.

Depending on the music, the guitar cancel function may not reduce the recorded guitar sound sufficiently. If this occurs, changing the PART and RANGE settings might make the reduction more effective. Listen to the music as you adjust the settings to achieve the best effect.

NOTE

Depending on the recording of the music, reduction of the guitar part with this function may not be possible.

PART

Adjust this setting to match the stereo position of the sound that you want to reduce between LEFT 10 and RIGHT 10. The initial setting is CENTER.

RANGE

Select MIDDLE or ALL for the range of sound reduction. The default setting is MIDDLE.

Loop playback

With this function you can continuously repeat the playback of a selection that you make (loop playback).

1   **Press the IN/OUT key during playback to set the point when you want to start loop playback. The current position is set as the IN point, and the ▯ symbol**

appears below the playback position display bar at that point.

2   **Press the IN/OUT key at the point when you want loop playback to stop. The current position is set as the OUT point, and the ▯ symbol appears below the playback position display bar at that point. After setting the OUT point, loop playback begins between the IN and OUT points.**

The ↻I↔o play mode icon appears on the left of the display.


```
USB TMP KEY G.C        ●
▶ ↻I↔o22Trk  1m24s
TIME DISPLAY
▭▭▭▭▭▭▭▭▭▭▭▭▭▭▭▭▭◯ 3:02
    ▯   ▯
TITLE:NO TEXT
```

To stop loop playback, press either the **LOOP** key or the **IN/OUT** key.

If you press the **LOOP** key, the loop interval settings are saved, and if you press the **LOOP** key again loop playback of the set interval begins again.

If you press the **IN/OUT** key, the loop interval settings (IN point and OUT point settings) are canceled.

Listening to CDs

Selecting the play mode

This device has the two following play modes.

ALL mode (initial setting)

This is the ordinary mode. Once you start playback, the disc will play through to the end.

SINGLE mode

After playback of a track is started, that track will play to the end.

Use the following procedures to select the play mode.

1 **Press MISC. to open the** SETUP & MISC. **screen.**

2 **Use the CURSOR ▲/▼ keys to select** PLAY MODE **and the VALUE (+, –) keys to select** ALL **or** SINGLE**.**

> USB TMP KEY G.C ➡
> 22Trk68M23s
> SETUP & MISC.
> MONO MONITOR:OFF
> SPLIT CD/GUITAR:OFF
> PLAY MODE :ALL

NOTE

If you select SINGLE, *⤻SINGLE appears to the left of the time display.*

Repeat playback

In repeat playback mode, depending on the play mode setting, all tracks (ALL play mode) or the current track (SINGLE play mode) will play back repeatedly.

When loop playback in (**I**) out (**O**) points are not set, press the **LOOP** key to start repeat playback.

NOTE

Use the REPEAT item on the SETUP & MISC. screen to set repeat playback ON and OFF.

When the repeat setting is set to ALL, *⟳ALL appears.*
When the repeat setting is set to SINGLE, *⟳1 appears.*

Using guitars and mics

By connecting a guitar or mic to this player, you can mix the input from the guitar or mic with the CD playback sound. You can also use the built-in guitar and mic effects for guitar and singing practice

Setting the input

When shipped from the factory, the **GUITAR/MIC IN** jack is set for guitar input. Use the following procedures to set the unit for mic input.

1   **Press the** LEVEL **key to open the** LEVEL **screen.**

```
 ╭─LEVEL    22:68:23  ━━▶
 │INPUT:█MIC█│
  GTR╲ ╱MIC    ╭·╮     ╭·╮
     ╲╱       (·)     (·)
      ╱╲       ╰─╯     ╰─╯
 └──GUITAR/MIC──── CD─┘
    INPUT   ▭▭▭▭▭▭▭▭
```

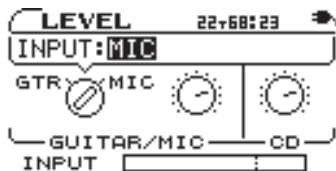2   **Use the CURSOR (▶) key to choose** INPUT **(initial setting is** GUITAR**), and use the VALUE (+) key to set it to** MIC**.**

NOTE

The effects available change according to the INPUT *setting (See "Using built-in effects" on page 30.).*

Adjusting the input level

Use the **INPUT** volume control to the right of the **GUITAR/MIC** IN jack to adjust the input level. Use the input level meter at the bottom of the LEVEL screen as shown on the preceding page for guidance.

Adjusting the monitoring volume

Use the **PHONES VOLUME (+, –)** keys to adjust the headphones output volume. Follow the same procedure used when adjusting the playback volume of a CD. (See "Adjusting the volume" on page 25.)

NOTE

Adjust the volume on the external device when using an audio system or speakers with built-in amplifiers to monitor through the LINE OUT *jack. You cannot adjust the output level of this device's* LINE OUT *jack.*

Playing along with a CD

This device combines the signal input through the **GUITAR/MIC IN** jack and the CD playback signal and outputs this mix to the **PHONES** and **LINE OUT** jacks. In other words, you can play your guitar or sing through a mic connected to the player and hear this sound along with the playing CD.

Using guitars and mics

Use the following procedures to adjust the CD playback signal and input signal levels independently to achieve the mix balance that you desire.

1   Press the LEVEL key to open the LEVEL **screen.**

The GUITAR/MIC and CD knob icons appear. These adjust the levels of the input signal from the **GUITAR/MIC IN** jack and the CD playback signal.
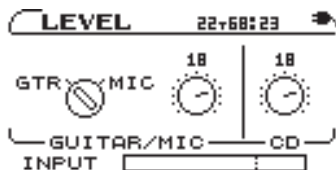
2   Use the CURSOR (◄, ►) keys to select the knob that you want to adjust. The level value of the selected knob appears as a pop-up in inverse.
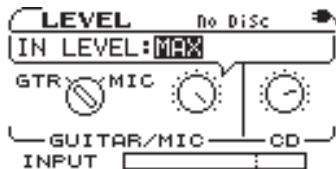
3   Use the VALUE (+, −) keys to adjust the level. The level knob icon rotates as you change the value.

Using built-in effects

This device has a built-in multi-effects processor.
Depending on the INPUT setting (**GUITAR/MIC IN** jack input settings) on the LEVEL screen, either the guitar or mic effects are usable. (See "Setting the input" on page 29.)
Press the **EFFECT** key to open the EFFECTOR screen.

On the EFFECTOR screen, use the **CURSOR (▲, ▼)** keys to select items and the **VALUE (+, −)** keys to adjust settings in the same way as on other screens. Use the **CURSOR (◄, ►)** keys to move between level knobs and effect modules.
As shown in the figure above, in addition to BANK and PRESET, the EFFECTOR screen also shows the LVL (level) knob and icons for up to three guitar or microphone effect modules. The guitar or microphone icon shows whether the effects that can currently be used are for a guitar or mic and have no settings, but all other icons contain adjustable settings. The types of effect modules change depending on the **GUITAR /MIC IN** jack input setting.
When you select the LVL knob or effect modules, a pop-up appears for the setting items. Use the **CURSOR (▲, ▼)** keys to

Using guitars and mics

select settings in the pop-up, and use the **VALUE (+, –)** keys to adjust these settings.

BANK

Select bank 01–10 or BYPASS.

Using the PRESET item explained below, you can set a preset effect for each bank. By making presets of settings that you use frequently in each bank, you can quickly recall the settings you desire just by switching through the banks. You can save separate settings for each BANK for both GUITAR and MIC input settings.

Select BYPASS if you do not want to use effects.

PRESET

Choose the effect preset that you want. Each preset has a different combination of up to three effect modules.

Either guitar or mic presets are available depending on the GUITAR/MIC input setting.

See the "Effect presets list" on page 39 for details about the effect modules in each preset.

LVL knob

Adjusts the output level of the effect. Use the **CURSOR (◄, ►)** keys to select the LVL knob and open the pop-up with the level value highlighted. Use the **VALUE (+, –)** keys to adjust the level setting between 0–100.

Effect modules

Use the **CURSOR (◄, ►)** keys to select the module icons and open a pop-up with parameter settings as shown in the figure below. The parameters depend on the type of module. For details about the parameters for each module type, see the "Effect module parameter list" on page 42.

NOTE

When the LVL *knob or an effect module parameter is selected, use the* CURSOR *(◄, ►) keys to move between modules and the* CURSOR *(▲, ▼) keys to move between settings.*

Other functions

Using the metronome

This device has a built-in metronome that you can use in guitar practice, for example.

1 **Press the MISC. key to open the** SETUP & MISC. **screen.**

```
USB TMP KEY G.C FX ➡
          22Trk68m23s
  SETUP & MISC.
METRONOME:OFF
MONO MONITOR:OFF
SPLIT CD/GUITAR:OFF ▾
```

2 **Use the CURSOR (▲, ▼) keys to select the** METRONOME **item.**

3 **Use the VALUE (+) key to turn it** ON**. The metronome starts with the tempo and beat settings last used (or the default settings if this is the first time used).**

4 **When the metronome is ON, its** TEMPO **and** BEAT **settings appear. Use the CURSOR (▲, ▼) keys to select the items, and the VALUE (+, –) keys to change their settings.**

```
USB TMP KEY G.C FX ➡
          22Trk68m23s
  SETUP & MISC.
METRONOME: ON
 TEMPO  :140 BPM
 BEAT   : 5          ▾
```

NOTE

Turning the metronome ON will stop CD playback.

TEMPO
Set the tempo between 40 and 220 beats per minute (BPM).

BEAT
Set the rhythmic pulse between 2 and 6 or set it to "0" for no accented beats.

NOTE

TEMPO and BEAT settings are save when the power is turned OFF and will be the same the next time that you use the metronome.

If you press the CURSOR ▼ *key when the* BEAT *item is selected, the* MONO MONITOR *item is selected and the metronome settings window disappears. Press the* CURSOR ▲ *key to return to the metronome settings.*

Other functions

Stopping the metronome

Do one of the following:
- Press the STOP key.
- Turn the METRONOME item OFF on the SETUP & MISC. screen.

NOTE

Pressing any of the CD player operation keys will also turn the metronome OFF.

Using the tuner

This device has a built-in tuner that can be used not only for tuning a guitar, but also for outputting a tuning pitch that you select.

First, select the tuner mode.

1   Press the TUNER key to open the TUNER **screen.**

```
 TUNER      22:68:23  
MODE :AUTO
CALIB:440Hz

         ---
      ┌─┐ ┌─┐
      │ └─┤ │        440
```
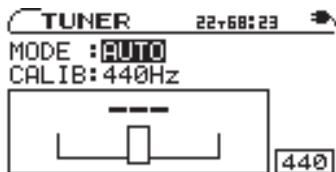
2   With the MODE **value selected, use the VALUE (+, –) keys to select one of the following tuner modes.**

AUTO	chromatic tuner
GUITAR	guitar tuner
OSC.	oscillator mode

These modes are explained separately in the following sections.

AUTO (chromatic tuner)

In this ordinary mode, you do not need to change settings for each of the strings being tuned. The tuning meter and input signal pitch appear on the screen (see the preceding figure). ("---" appears when there is no input).

1   Connect a guitar to the GUITAR/MIC IN jack and play the string that you want to tune. The pitch closest to the string's frequency appears at the top of the meter.

2   Tune the guitar roughly until the desired pitch name is shown. Fine tune the guitar until the center of the meter is highlighted. A bar appears to the left if the tuning is too low and a bar appears to the right if it is too high. The longer the bar is the more out of tune the string is.

NOTE

Use the CURSOR ▼ *key to select* CALIB*, and the* VALUE *(+, –) keys to set the standard frequency of middle A between 435 Hz and 445 Hz.This setting affects all tuner modes.*

This setting affects all tuner modes.

Other functions


```
TUNER      22т68:23
MODE :AUTO
CALIB:440Hz

        A4
    ┌──■───────┐
    └──────────┘      440
```

GUITAR (guitar tuner mode)
Change the setting for each string to be tuned.


```
TUNER      22т68:23
MODE :GUITAR
NOTE :3G          ·🎸

        3G
    ┌──────■───┐
    └──────────┘      440
```

1 **Use the CURSOR ▼ key to select** CALIB**, and the
   VALUE (+, –) keys to set the standard frequency of
   middle A between 435 Hz and 445 Hz.**

This setting affects all tuner modes.

2 **Use the CURSOR ▲ key to select** NOTE**, and use the
   VALUE (+, –) keys to select the string that you are
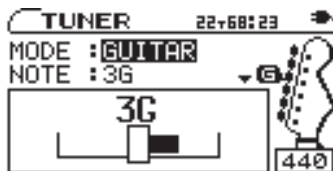   tuning (**1E**,** 2B**,** 3G**,** 4D**,** 5A**,** 6E**).**

The note name of the selected string appears at the top of the
meter. (A guitar peg also appear at the right side of the screen.)

3 **The guitar is tuned when the center of the meter is
   highlighted. The tuning procedures are the same as
   described above for the AUTO mode.**

OSC. (oscillator mode)

The built-in oscillator can output a sine wave of a pitch in the
three octaves between C4 and B6 through the PHONES and
LINE OUT jacks. The oscillator mode has the following four
setting items. Use the CURSOR (▲, ▼) keys to select the items
and the VALUE (+, –) keys to change their settings.

NOTE
Set the output pitch (C4–B6).

OUT
Set whether or not the oscillator sound is output from the
PHONES and LINE OUT jacks. When ON, an image of a
vibrating pitchfork appears on screen.


```
TUNER      22т68:23
NOTE :A#4         ▲
OUT  :ON          ▼

      ((( Y )))
          ⬦          440
```
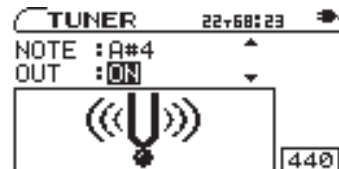
Other functions

LEVEL
Adjust the output sound level between 0 and 100 with the **VALUE** (–, +) keys.

CALIB
Set the standard frequency of middle A between 435 Hz and 445 Hz. This setting affects all tuner modes.

Using a footswitch

You can use a footswitch to control certain operations. A footswitch can be set to control FLASH BACK, fast reverse or fast forward, as well as to change the effect bank or turn the effects ON and OFF.

Connecting a footswitch

Connect a TASCAM RC–30P or other momentary footswitch (non-latching) to the FOOT SW jack on the front of the unit. After connection, press the **MISC.** key to open the SETUP & MISC. screen and make settings as necessary.

Setting the function

Use the **CURSOR** (▲, ▼) keys to select FOOT FUNC, and the **VALUE (+, –)** keys to choose one of the following functions.

FLASH functions like the **FLASH BACK** key
REW functions the same as the ◄◄/◄◄ key
FF functions the same as the ►►I/►► key
BANK changes the effect bank
EFFECT turns the effects ON and OFF

```
USB TMP KEY G.C FX ➥
         22Trk68m23s
 SETUP & MISC.
TIME INFO.:ELAPSED  ▲
FLASH BACK:5s
FOOT FUNC.:BANK     ▼
```

Setting the polarity

When using a footswitch other than a TASCAM RC-30P, the polarity might need to be changed. Use the **CURSOR** (▲, ▼) keys to select the FOOT TYPE item and the **VALUE (+, –)** keys to select NORMAL or INVERT according to the type of footswitch used.

```
USB TMP KEY G.C FX ➥
         22Trk68m23s
 SETUP & MISC.
FLASH BACK:5s       ▲
FOOT FUNC.:BANK
FOOT TYPE :NORMAL   ▼
```

Making various settings

You can change various settings to optimize the device for your use environment and other requirements. All of the following items are on the SETUP & MISC. screen.

Press the **MISC.** key to open the SETUP & MISC. screen. Use the **CURSOR** (▲, ▼) keys to select the desired item and the **VALUE (+, –)** keys to set the value.

Mono monitoring

You can output a mono signal from the **PHONES** and **LINE OUT** jacks.

USB TMP KEY G.C FX ➡
22Trk68m23s
SETUP & MISC.
METRONOME:OFF
MONO MONITOR:L+R
SPLIT CD/GUITAR:OFF ▾

Select one of the following MONO MONITOR settings.

OFF   ordinary stereo monitoring (default setting)
L+R   both channel signals are mixed and output in mono
L   left channel signal is output on both channels
R   right channel signal is output on both channels

Splitting the CD and guitar sounds

You can split the CD playback signal and guitar (or mic) signal output through the **PHONES** and **LINE OUT** jacks so that only the CD is on the left and only the guitar is on the right.

USB TMP KEY G.C FX ➡
22Trk68m23s
SETUP & MISC.
METRONOME:OFF
MONO MONITOR:L+R
SPLIT CD/GUITAR:ON ▾

Turn the SPLIT CD/GUITAR setting ON to output the CD playback signal to the L channel in mono and the **GUITAR/ MIC IN** signal to the R channel.

Making various settings

Setting the time display

You can set how the CD time is displayed.

```
USH TMP KEY G.C FX  ➡
                22Trk68m23s
      SETUP & MISC.
PLAY MODE :ALL         ▲
REPEAT    :OFF
TIME INFO.:REMAIN      ▼
```

Select one of the following TIME INFO settings.

ELAPSED	elapsed time of current track
REMAIN	remaining time of current track
TOTAL REMAIN	remaining time of entire disc

NOTE

The selected time display mode is shown on the TIME DISPLAY *screen.*

Changing the display contrast

You can change the display contrast as needed to suit the surrounding lighting and other conditions.

```
USH TMP KEY G.C FX  ➡
                22Trk68m23s
      SETUP & MISC.
FOOT FUNC.:BANK        ▲
FOOT TYPE :NORMAL
CONTRAST  : 9
```

Set the CONTRAST between 1 and 10 with higher numbers providing greater contrast.

Restoring all settings to their default values

Press and hold the ◄◄ and ►► keys simultaneously as you turn the power ON to open the INITIALIZE screen at startup.

Follow the instruction on screen after startup, and press the ►/II key to restore every effect parameter, playback setting and other function to the default values set when the unit was shipped from the factory.

Specifications

CD player

Compatible CD formats:	CD-DA (audio CD), CD-TEXT
Compatible disc formats:	12cm/8cm CD, CD-R, CD-RW
A/D converter:	24-bit
D/A converter:	24-bit
Internal DSP calculations:	32-bit
Sampling frequency:	44.1 kHz
Quantization bit rate:	16-bit linear
Frequency characteristics:	20–20,000 Hz +0.5/–5 dB
S/N ratio:	85 dB
Dynamic range:	90 dB
Harmonic Distortion:	0.05% or less (200 Hz–20 kHz)
Channel separation:	80 dB

Audio input and output ratings

GUITAR/MIC IN jack
Connector:	6.3 mm (1/4″) mono phone jack
Standard input levels:	–15 dBV (GUITAR)
	–40 dBV (MIC)
Maximum input levels:	+6 dBV (GUITAR)
	–19 dBV (MIC)

LINE OUT jack:
Connector:	3.5 mm (1/8″) stereo minijack
Standard output level:	–10 dBV
Maximum output level:	+6 dBV

PHONES jack:
Connector:	3.5 mm (1/8″) stereo minijack
Maximum output:	15 mW + 15 mW (into 32 Ω)

Other characteristics

Power: 4 AA batteries or
      DC-5V (requires PS-P520 AC adapter sold separately)
Power consumption: 2.5 W (during AC adapter use)
Maximum external dimensions (width x height x depth):
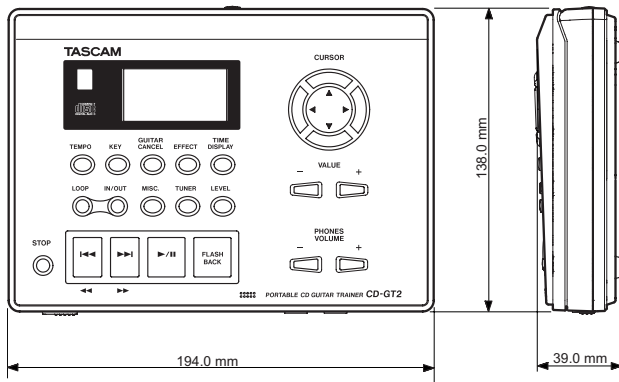   194 (w) x 39 (h) x 138 (d) mm
      7.6 (w) x 1.5 (h) x 5.4 (d) inches
Weight: 550 g (1.2 lbs) (not including batteries)
Accessories: Owner's Manual, Troubleshooting
      Guide, Warranty Card

- Specifications and appearance may be changed without notice for the purpose of product improvement.
- Illustrations and other details in this Owner's Manual may differ from the actual product.

Notes

Effect preset lists

Guitar effects

Preset number	Preset Name
1	Dst+Flanger+Rev
2	Dst+Flanger+Dly
3	Dst+Phaser+Rev
4	Dst+Phaser+Dly
5	Dst+Exciter+Rev
6	Dst+Exciter+Dly
7	Dst+Chorus+Rev
8	Dst+Chorus+Dly
9	Dst+Tremolo+Rev
10	Dst+Tremolo+Dly
11	Dst+Vibrato+Rev
12	Dst+Vibrato+Dly
13	Dst+Autowah+Rev
14	Dst+Autowah+Dly
15	Dst+Pitch+Rev
16	Dst+Pitch+Dly
17	Dst+Reverb
18	Dst+Delay
19	Dstortion
20	O.D+Flanger+Rev
21	O.D+Flanger+Dly
22	O.D+Phaser+Rev
23	O.D+Phaser+Dly
24	O.D+Exciter+Rev
25	O.D+Exciter+Dly
26	O.D+Chorus+Rev
27	O.D+Chorus+Dly
28	O.D+Tremolo+Rev

Preset number	Preset Name
29	O.D+Tremolo+Dly
30	O.D+Vibrato+Rev
31	O.D+Vibrato+Dly
32	O.D+Autowah+Rev
33	O.D+Autowah+Dly
34	O.D+Pitch+Rev
35	O.D+Pitch+Dly
36	Overdrive+Rev
37	Overdrive+Dly
38	Overdrive
39	Cmp+Flanger+Rev
40	Cmp+Flanger+Dly
41	Cmp+Phaser+Rev
42	Cmp+Phaser+Dly
43	Cmp+Exciter+Rev
44	Cmp+Exciter+Dly
45	Cmp+Chorus+Rev
46	Cmp+Chorus+Dly
47	Cmp+Tremolo+Rev
48	Cmp+Tremolo+Dly
49	Cmp+Vibrato+Rev
50	Cmp+Vibrato+Dly
51	Cmp+Autowah+Rev
52	Cmp+Autowah+Dly
53	Cmp+Pitch+Rev
54	Cmp+Pitch+Dly
55	Compressor+Rev
56	Compressor+Dly

Preset number	Preset Name
57	Compressor
58	Flanger
59	Flanger+Delay
60	Flanger+Reverb
61	Phaser
62	Phaser+Delay
63	Phaser+Reverb
64	Exciter
65	Exciter+Delay
66	Exciter+Reverb
67	Chorus
68	Chorus+Delay
69	Chorus+Reverb
70	Tremolo
71	Tremolo+Delay
72	Tremolo+Reverb
73	Vibrato
74	Vibrato+Delay
75	Vibrato+Reverb
76	Autowah
77	Autowah+Delay
78	Autowah+Reverb
79	Pitch
80	Pitch+Delay
81	Pitch+Reverb
82	Reverb
83	Delay

Effects preset lists

Vocal effects

Preset number	Name	Effect	Parameter range
VOCAL_01	Chorister	Layered vocal sound created by detuning	0—20
VOCAL_02	Emphasis	Brings out vocals that are hard to hear	0—20
VOCAL_03	Shout	Distortion for vocals	0—30
VOCAL_04	Mood	Moody vocal sound	0—30
VOCAL_05	Echo 1	Echo sound with compression for vocals	0—20
VOCAL_06	Echo 2	Echo sound with vibrato for vocals	0—99
VOCAL_07	Quivering	Adds vibrato to vocals	0—30
VOCAL_08	Duet	Adds female or male vocal harmony	–17—+17
VOCAL_09	Lo-Fi	Adds a lo-fi sound to vocals	0—12
VOCAL_10	Megaphone	Makes vocals sound like they are sung through a megaphone	0—99
VOCAL_11	Screaming	Flanger for vocals	0—30
VOCAL_12	Panning	Pan vocals left and right	0—30

Effect module parameter list

This table explains the features of all the effect modules that comprise the effect presets of this device. Some individual effects have greater results when used in combination with other effect modules. If you are unable to achieve the sound you seek even after experimenting with all the parameters of each module in an effect preset, try a different preset.

Module	Effect	Parameter	Details	Range
Distortion (DST)	Heavily distorts the guitar sound, making it stand out with thickness and sustain for a nice lead sound.	DIST	Adjusts the amount of distortion	0–30
		TONE	Adjusts the tone	0–12
Overdrive (OD)	Lightly distorts the guitar sound giving it the sound of an overdriven amplifier—great for creating a warm classic rock sound.	DRIV	Adjusts the amount of overdrive	0–30
		TONE	Adjusts the tone	0–12
Compressor (CMP)	Compresses the guitar sound, giving it clarity and sustain—good for creating appealing, clean sounds.	COMP	Adjusts the amount of compression	0–30
		TONE	Adjusts the tone	0–12
Flanger (FLA)	Gives the sound a moving modulation that can be compared to the sound of a jet engine.	SPD	Adjusts the speed of modulation	0–30
		MIX	Adjusts the amount of the effect	0–20
Phaser (PHA)	Gives the sound a rough modulation useful for creating 70s funk style sounds.	SPD	Adjusts the speed of modulation	0–30
		MIX	Adjusts the amount of the effect	0–20
Exciter (EXC)	Adds high frequencies to the original sound to make rich, shimmering tones that stand out.	FREQ	Adjusts the added high frequencies	0–30
		MIX	Adjusts the amount of the effect	0–20

Effect module parameter list

Module	Effect	Parameter	Details	Range
Chorus (CHO)	Adds a slightly detuned sound to create a wide, ensemble-like tone. This effect was popular in 70s hard rock and fusion.	DPTH	Adjusts the modulation depth	0–30
		MIX	Adjusts the amount of the effect	0–20
Tremolo (TRM)	Creates a cyclical variation in the volume. A sound like a rotary speaker can be achieved by combining it with delay.	SPD	Adjusts the speed of the effect.	0–30
		MIX	Adjusts the amount of the effect	0–20
Vibrato (VIB)	Creates a cyclical variation in the frequency for a regular pitch variation.	SPD	Adjusts the speed of the effect.	0–30
		MIX	Adjusts the amount of the effect	0–20
Autowah (WAH)	Creates a sound like a wah pedal that is great for funky sounds. Vary your picking force when using this effect.	SENS	Adjusts sensitivity to picking force	0–30
		MIX	Adjusts the amount of the effect	0–20
Pitch Shifter (PIT)	Changes the pitch of the input signal and can be used to create a doubled lead sound, for example. Set PIT between 6 and 17, or –6 and –17, for semitone changes.	PIT	Adjusts pitch in semitones (±6–17) or in smaller intervals (–5 to +5)	±17
		MIX	Adjusts the amount of the effect	0–20
Reverb (REV)	Creates reflections, like the echoes in a stone church, to give the sound greater width. Surf rock uses this effect extensively.	TIME	Adjusts the reverberation time	0–25
		MIX	Adjusts the amount of the effect	0–20
Delay (DLY)	Adds echoes to the sound. Adjust the TIME and turn the MIX level up for a rockabilly sound.	TIME	Adjusts the delay time	0–99
		MIX	Adjusts the amount of the effect	0–20

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CD-GT2