YAMAHA

DSR1
Digital Sequencer Recorder

Getting Started & Playback Manual

Manuel d'instruction et des fonctions de reproduction

Handbuch "Einstieg und Wiedergabe"

GENERAL
mIDI **XG**

SPECIAL MESSAGE SECTION

IMPORTANT NOTICE: All Yamaha electronic products are tested and approved by an independent safety testing laboratory in order that you may be sure that when it is properly installed and used in its normal and customary manner, all foreseeable risks have been eliminated. DO NOT modify this unit or commission others to do so unless specifically authorized by Yamaha. Product performance and/or safety standards may be diminished. Claims filed under the expressed warranty may be denied if the unit is/has been modified. Implied warranties may also be affected.

SPECIFICATIONS SUBJECT TO CHANGE: The information contained in this manual is believed to be correct at the time of printing. However, Yamaha reserves the right to change or modify any of the specifications without notice or obligation to update existing units.

ENVIRONMENTAL ISSUES: Yamaha strives to produce products that are both user safe and environmentally friendly. We sincerely believe that our products and the production methods used to produce them, meet these goals. In keeping with both the letter and the spirit of the law, we want you to be aware of the following:

Battery Notice: This product MAY contain a small nonrechargeable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes neccessary, contact a qualified service representative to perform the replacement.

Warning: Do not attempt to recharge, disassemble, or incinerate this type of battery. Keep all batteries away from children. Dispose of used batteries promptly and as regulated by applicable laws. Note: In some areas, the servicer is required by law to return the defective parts. However, you do have the option of having the servicer dispose of these parts for you.

Disposal Notice: Should this product become damaged beyond repair, or for some reason its useful life is considered to be at an end, please observe all local, state, and federal regulations that relate to the disposal of products that contain lead, batteries, plastics, etc.

NOTICE: Service charges incurred due to lack of knowledge relating to how a function or effect works (when the unit is operating as designed) are not covered by the manufacturer's warranty, and are therefore the owners responsibility. Please study this manual carefully and consult your dealer before requesting service.

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DSR1
Digital Sequencer Recorder

Getting Started & Playback Manual

Important

Read the following before operating the DSR1.

Warnings

- Do not locate the DSR1 in a place subject to excessive heat, low temperatures, or direct sunlight. This could be a fire hazard and may damage the finish and internal parts.
- Excessive humidity or dust can lead to fire or electric shock.
- Connect the plug on the AC adaptor to a compatible AC outlet. Failure to do so will present a fire and electric shock hazard. If the AC adaptor is not compatible with your AC outlet, consult your dealer.
- Do not plug several devices into the same AC outlet. This can overload the AC outlet, and lead to fire and electric shock hazard. It may also affect the performance of some devices.
- Do not place heavy objects on the AC adaptor cable. A damaged cable is a potential fire and electric shock hazard. If the cable runs under a carpet, make sure heavy objects are not placed on top of it.
- If the AC adaptor cable is damaged (i.e. cut or a bare wire is exposed), ask your dealer for a replacement. Using the DSR1 in this condition is a fire and shock hazard.
- Do not place liquid containers such as vases, potted plants, glasses, cosmetic bottles, medicines, etc., on the DSR1.
- Do not try to modify the DSR1, as this could lead to fire or electric shock hazard.
- When moving the DSR1 to another location, turn off the power, remove the AC adaptor from the AC outlet, and remove all cables connected to external devices.

Cautions

- Turn off all devices when connecting to the DSR1. Refer to the user's guide for each device. Use the correct cables and connect as specified.
- Set the volume level on all the devices to minimum before applying power.
- Do not play the DSR1 at a high volume for extended periods; you may damage your hearing. This is especially important when using headphones. If you think your hearing ability is impaired, consult your doctor.
- If you notice any abnormality – such as smoke, odor, or noise – turn off the DSR1 immediately, and remove the AC adaptor from the AC outlet. Consult your dealer for repair.
- If a foreign object or water gets inside the DSR1 turn it off immediately, and remove the AC adaptor from the AC outlet. Consult your dealer.
- If you plan not to use the DSR1 for a long period of time (such as when you are on vacation), disconnect the AC adaptor from the AC outlet.
- Always remove the AC adaptor from the AC outlet before cleaning the DSR1. Leaving the AC adaptor connected presents a risk of electric shock.
- Do not use benzene, thinner, cleaning detergent, or a chemical cloth to clean the DSR1.
- Do not place heavy objects on the DSR1. Doing so can damage the DSR1.

Interference

- The DSR1 uses high-frequency digital circuits that may cause interference to radios and TVs placed close to it. If interference does occur, relocate the affected equipment.

Please keep this manual for future reference.

i

Table of Contents

English

iii

Chapter 1
Introduction

Outstanding Features of the DSR1 _____

Thank you for purchasing the DSR1 digital sequencer recorder!

The DSR1 Digital Sequencer Recorder is an ideal tool for giving your MIDI-equipped Yamaha *Silent Series* piano, MIDIPIANO™*, GranTouch digital piano, earlier-model Disklavier piano or Clavinova digital piano the recording, playback and other advanced capabilities of a Yamaha Disklavier XG piano. The DSR1 harnesses the power of today's Disklavier XG technology to expand your piano's capabilities and extend your musical horizons.

An acoustic/digital piano available in North America.

Internal XG Tone Generator Features

Equipped with an internal XG tone generator, the DSR1 offers an enormous range of instrumental sounds to enhance your playing and listening enjoyment. It provides nearly 700 digitally sampled voices — strings, brass, woodwinds, percussion, special effects and more. This multi-voice capability also allows you to use your piano as a complete entertainment system, reproducing richly orchestrated professional recordings.

Versatile Playback Functions

The DSR1 lets you play back a wide variety of prerecorded music, including Yamaha PianoSoft™ and PianoSoft·Plus™ disk collections, as well as the vast library of Standard MIDI File disks now available on the market. You can listen to the world's greatest classical, jazz and popular artists perform right in your own home, at the touch of a button, in any key or tempo. You can even play along with the instrumental parts. Educational disks designed to help you learn or improve your playing abilities can help you to work out a difficult song or passage by playing one hand at a time, while your piano plays the other.
Other convenient functions include the Search function which makes it easy to find the song you want to hear, Repeat functions for listening to a specified passage repeatedly, controlling volume, adjusting tempo, and changing key.

Recording Functions

The DSR1 can record your keyboard performance into the internal Memory Disk or onto standard 3.5" 2DD or 2HD floppy disks. You can keep permanent records of players' progress over time, and exchange music files with other DSR1 owners, Disklavier pianists or MIDI musicians. You can even record one hand at a time, or create your own four-hand duets. Its multi-track sequencer lets you record up to 16 tracks of piano and instrumental sound to create sophisticated Ensemble arrangements.

Music Editing & Utility Functions

The DSR1 supports both E-SEQ and Standard MIDI File format songs and disk types. For compatibility with other MIDI instruments, the DSR1 lets you convert song formats and disk types. The DSR1 also offers versatile track editing capabilities, and disk formatting, copying, and titling functions.

Innovative External Interface

With a simple cable connection, not only can you play back and record songs using external MIDI devices such as synthesizers and sequencers, but you can directly access your personal computer for a

variety of innovative uses. You can, for example, record your piano performance to your computer's hard drive, assemble multi-part arrangements at your computer for playback on your piano and the DSR1, print out the music you play using music notation software on your computer, or download MIDI files from the Internet.

Sound reproduction depends on the capabilities of your piano. Yamaha Silent Series pianos, MIDIPIANOs reproduce digital piano and ensemble sound through headphones or external audio equipment. Yamaha GranTouch digital pianos utilize their internal speakers and amplification system. Yamaha Disklavier pianos reproduce piano tones acoustically on the strings of the piano, requiring headphones or external audio equipment for ensemble sound reproduction.
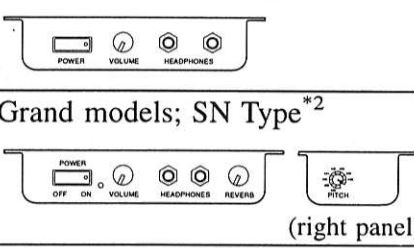
Reproduction of acoustic piano performance, including the lifelike motion of keys and pedals during playback is only possible with the Yamaha Disklavier piano.

Functionality may vary depending on available connections on your piano. Consult your Yamaha piano dealer for more information on using the DSR1 with your piano.

Host Pianos

The DSR1 can be connected to the Yamaha *Silent Series*, MIDIPIANO, GranTouch, Disklavier pianos, Clavinova digital pianos and some digital pianos of other makes as shown in the table below.

However, connections, setup and operational procedures vary depending on the piano model. Host pianos are grouped into categories and piano types for convenience in this manual. Find your piano type and to which category it belongs in the table below before proceeding with operational procedures. If you are unsure about which category and piano type your piano belongs to, consult your Yamaha piano dealer.

Piano Category	Models (Example)		Piano Type[*1]
Silent Series pianos, MIDIPIANOs	Upright models		MP/SGP/GT10
	Grand models; SG Type	(fig. a)	
	Grand models; SN Type[*2]	(fig. b) (right panel)	SGP-SN/GT1,GT2
	Silent Series w/MIDI OUT connector only		w/MIDI OUT only
GranTouch digital pianos	GT10, GT15 (See SG Type: fig. a above.)		MP/SGP/GT10
	GT1, GT2, GT7, GT20 (See SN Type: fig. b above.)		SGP-SN/GT1,GT2
Disklavier pianos	MX80 Series		Disklavier
	MX95		
	MX100A		
	MX100B		
	Earlier Grand models (w/wagon type controller)		
	Mark II Series		
	MPX100II		
Clavinova digital pianos	XG-compatible models[*4] [*5] CVP-98, 96, 94, 92, CVP-600 (CVP-79,69,59S)[*6]		Clavinova1
	Models other than those above.		Clavinova2
Other digital pianos			MP/SGP/GT10 or SGP-SN/GT1,GT2[*3]

[*1] *One of six piano types must be set before operating the DSR1. (See Chapter 4 "Preliminary Settings".)*
[*2] *The Silent Series Grand SN Type piano refers to the upgrade of the Silent Series Grand SG Type piano.*
[*3] *Try both settings and select the setting in which volume adjustments are made to your preference.*
[*4] *Although CVP-89 falls under the Clavinova2 category, it can also be used with the Clavinova1 setting if the multi-timbre mode is set to GM voice arrangement in the Clavinova.*
[*5] *CLP-880, 880M, 880P, 860, 860M, 840, 820, 820S, 810S, 811, 611, 511, 411, 311, 555 can be used with the Clavinova1 setting as they have XG voice arrangement.*
[*6] *CVP-79, 69, 59S conform to the XG voice arrangement (with the exception of some voices).*

Items Supplied with the DSR1

Check that the following items are supplied with the DSR1.

1	Remote Control
2	Batteries for the Remote Control
1	Sample Disk (PianoSoft)
1	Blank Floppy Disk
1	AC Adaptor PA1207 (PA1206 for U.K.)
3	Audio Cables (stereo mini plug — stereo phone plug) (mono phone plugs — stereo phone plug) (pin plugs — stereo phone plug)
2	MIDI Cables
1	*Getting Started & Playback Manual (A)*
1	*Advanced Operation Manual (B)*
1	Remote Control Sensor Shielding Sticker for Disklavier Control Panel (included in package containing remote control)

DSR1 Owner's Manuals

The DSR1 is supplied with two operating manuals: this *Getting Started & Playback Manual (A)* and an *Advanced Operation Manual (B)*.

Getting Started & Playback Manual (A)

To quickly gain a good understanding of the DSR1, you should start by reading this manual. This will introduce you to the features and functions of the DSR1 and how to play back songs. Playback functions include basic functions such as song select, volume adjustment and tempo change, along with other features such as repeat playback, playback using the metronome and pedals, and advanced Ensemble song playback.

Advanced Operation Manual (B)

This manual explains how to record your own songs, and use the various disk and song file utilities, such as song copy, delete, etc. It also shows how the DSR1 can be used in a MIDI system with a MIDI tone generator or MIDI sequencer, or connected to a computer. Chapters on troubleshooting and a glossary of DSR1 terminology are also provided. At the very end of the manual, you will find a supplement on MIDI Data Format information in English. (This supplement is provided as a common section to all three language sections.)

Conventions Used in the Manuals

DSR1 Unit and Remote Control

Functions of the DSR1 can be operated using either the unit itself or the remote control. When the remote control can be used, the relevant remote control button is illustrated, for example, as below.

Remote Control

When a button is mentioned in the text, the name of the button is enclosed in square brackets, for example, the [PLAY/PAUSE] button.

Trademarks & Copyright _____

Yamaha, Disklavier, *Silent Series*, MIDIPIANO, GranTouch, Clavinova, PianoSoft, and PianoSoft·Plus are trademarks of Yamaha Corporation. Unauthorized copying of PianoSoft or PianoSoft·Plus disks is prohibited.

MS-DOS is a registered trademark of Microsoft Corporation.·

DSR1 Terminology _____

The following is a list of several basic words that you may need to know before proceeding with operational procedures in this manual. For other DSR1 terminology, see the glossary provided in the *Advanced Operation Manual.*

Song
A "song" usually means a short piece of music with lyrics. However, in the DSR1 manuals, the term "song" is used to refer to any piece of music.

Disk
"Disk" is used as a generic term to refer to both the floppy disk and internal Memory Disk. All playback, recording, and disk utility functions can be used for both the internal Memory Disk and floppy disks.

Floppy Disk
The magnetic storage medium that the DSR1 uses to save songs. The DSR1 uses 3.5 inch 2DD and 2HD floppy disks.

Memory Disk
The DSR1 also has an internal Memory Disk that allows you to store song data without a floppy disk.

PianoSoft™
The PianoSoft Disk Collection is a library of prerecorded song disks, made by Yamaha, specially for use with the Disklavier Series. The DSR1 allows you to enjoy this vast library on your piano. There are many titles available and music styles include classical, jazz, popular, and others. As well as songs for listening enjoyment, there are piano study disks for the piano student and accompaniment disks for vocal and instrumental practice.

PianoSoft is sometimes used as a generic term for PianoSoft and PianoSoft·Plus.

PianoSoft·Plus™
PianoSoft·Plus disks contain prerecorded Ensemble songs featuring instrumental accompaniment that can be played on the DSR1. Since the DSR1 has an XG compatible tone generator built in, you can enjoy Ensemble songs through headphones or amplified speakers.

See your Yamaha piano dealer for a PianoSoft catalog.

L/R Song
In a L/R song, the left-hand piano part is stored on track 1 (L) and the right-hand piano part is stored on track 2 (R). During playback you can cancel either part, and practice that part yourself. When recording an L/R song, you can record the two parts simultaneously or separately.

Ensemble Song
An Ensemble song contains the same left and right-hand parts as an L/R song, and extra tracks that are played by the internal XG tone generator. Accompanying tracks can include acoustic bass, drums, strings, vibes, etc.

MIDI
An acronym for Musical Instrument Digital Interface. MIDI allows electronic musical instruments to communicate with each other.

XG
Yamaha XG is an extension of the GM (General MIDI) format. With greater polyphony, more voices and effects, it improves song compatibility between MIDI devices. When a song in the Yamaha XG format is played on another XG compatible tone generator or synthesizer, it will play and sound as the original composer/creator intended.

Application Guide _____

By connecting the DSR1 to a *Silent Series*, MIDIPIANO, GranTouch, Disklavier or Clavinova piano, you can experience a whole new realm of piano entertainment. This section offers a few general ideas on how you can take the best advantage of the DSR1.

The following applications are briefly described in this section:

- Home Listening Pleasure
- Vocal or Instrumental Accompaniment
- Music Education and Practice
- Commercial Establishment
- Ensemble Playing Using the Internal XG Tone Generator
- MIDI Musicians and Computer-Based Music Systems

Home Listening Pleasure

You can use the DSR1 to provide live piano entertainment in your home, at any time. The comprehensive PianoSoft collection offers a library of music that the whole family can enjoy, including selections from classical, jazz, easy listening, and popular music.

The full-function remote control enables you to control the DSR1 from your favorite armchair.

When entertaining guests, the DSR1 can be used to provide live or pre-recorded genuine piano performance.

Vocal or Instrumental Accompaniment

With its versatile playback functions, the DSR1 provides an ideal accompanist for solo vocal, chorus, flute, violin, trumpet, etc. The PianoSoft Disk Collection includes several disks that are specially designed to accompany a chorus or instrumental soloist. You can also record your own accompaniment disks.

Better still, DSR1 accompaniment can be played at different tempos, in different keys, and any song or passage can be repeated again and again — with far more patience than any living accompanist could muster!

Music Education and Practice

Both teacher and student can benefit from using the DSR1 for study and practice.

For the student, the ability to record and instantly play back a song is both satisfying and educational. For songs that contain difficult passages, the left and right-hand parts can be recorded separately, or even at a slower tempo.

During playback, you can cancel one part (left or right hand), and concentrate your attention on the other part. You can repeat difficult passages over and over, and use the built-in metronome for recording and practice playing.

Commercial Establishments

For dance studios, hotel lobbies, bars, party halls, and restaurants, the addition of the DSR1 transforms your piano into the perfect centerpiece. Establishments that provide live piano entertainment can continue to do so at all hours of the day or night, using prerecorded PianoSoft and PianoSoft·Plus (Ensemble) disks or custom recordings by the house musician.

In shopping malls, banks, or other places people meet, what better way to provide an enlightening moment than with the beautiful sounds provided by the DSR1!

Ensemble Playing Using the Internal Tone Generator

The DSR1 reproduces not only live piano music, but digital accompaniment as well, thanks to the internal XG tone generator. You can play back PianoSoft·Plus pre-recorded Ensemble songs and enjoy the sound of a variety of instruments — brass, woodwind, strings, bass, percussion, and more. You can also compose and record your own, assembling up to 16 different instrument parts.

## MIDI Musicians and Computer-Based Music Systems

Those who enjoy making computer music can connect the DSR1 to MIDI-compatible synthesizers, sequencers, and drum machines, or to personal computers for a vast range of creative options. With its versatile abilities besides playback and recording functions, the DSR1 is an ideal tool for composition and performance.

English

Chapter 2
Names of Parts and Their Functions

This chapter describes the functions of the buttons and parts of the DSR1 and remote control.

Front Panel
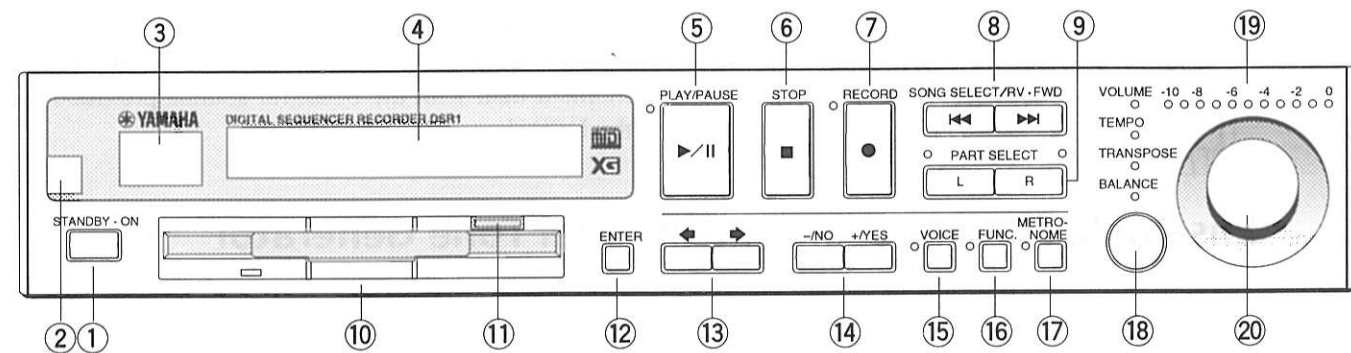
① [STANDBY - ON] button

This switch powers on the DSR1 or puts it in Standby mode. Press once to power on, and again to put it in Standby mode. In Standby mode, the DSR1 is in effect switched off. However, electrically it is in a state in which a very small quantity of power is being consumed, as the AC adaptor is still connected to the AC power receptacle.

② Remote control sensor

When using the remote control, point it toward this sensor.

③ Song number indicator

This is a two-digit display which indicates the number of the currently selected song.

④ Display

This display (LCD) shows the song time and title. It also displays options, parameters, and settings in conjunction with all DSR1's functions.

⑤ [PLAY/PAUSE] button

This button is used to start and pause playback and recording.

⑥ [STOP] button

This button is used to stop playback and recording.

⑦ [RECORD] button

This button is used to engage the Record Standby mode before recording starts.

⑧ [SONG SELECT/REV·FWD] buttons

These buttons work in three different modes.
In Stop mode they select songs.
In Play mode they work as fast preview and review.
In Pause mode they work as fast forward and reverse.

⑨ PART SELECT [L] [R] buttons

For L/R and Ensemble songs, these buttons allow you to choose which part to play back or record: left-hand part, right-hand part, or both. The indicators light in green during playback, and in red during recording. Pressing both buttons together switches pedal playback on or off so that you can play the pedals yourself.

⑩ Floppy disk drive

Insert floppy disks here for playback, formatting, recording, etc.

⑪ Floppy disk eject button

This button is used to eject disks from the floppy disk drive.

⑫ [ENTER] button

This button is used to select and execute functions.

⑬ [◄] [►] cursor buttons

These buttons are used to select various options and parameters. They are also used to move the cursor in the display when titling songs and disks, and when calling up a continuing display.

⑭ [–/NO] [+/YES] buttons

These buttons are used to select options and parameter values.
Pressing the [+/YES] button increases a value. It is also used to answer YES when the function requires a yes/no-type answer.
Pressing the [–/NO] button decreases a value. It is also used to answer NO when the function requires a yes/no-type answer.
Pressing both buttons together returns the setting to its initial factory setting.

⑮ [VOICE] button

This button is used to access the internal XG tone generator when playing the piano. An Ensemble voice you selected from the XG tone generator accompanies your piano playing in unison. See Chapter 12 "Playing the Keyboard with an Ensemble Voice".

⑯ [FUNC.] button

This button is used to access disk and song functions, MIDI setup, TG Master Tune and reset functions.

⑰ [METRONOME] button

This button is used to access the metronome.

⑱ Selector button

This button is used to select the feature you want to adjust from among Volume, Tempo, Transpose, and Balance.
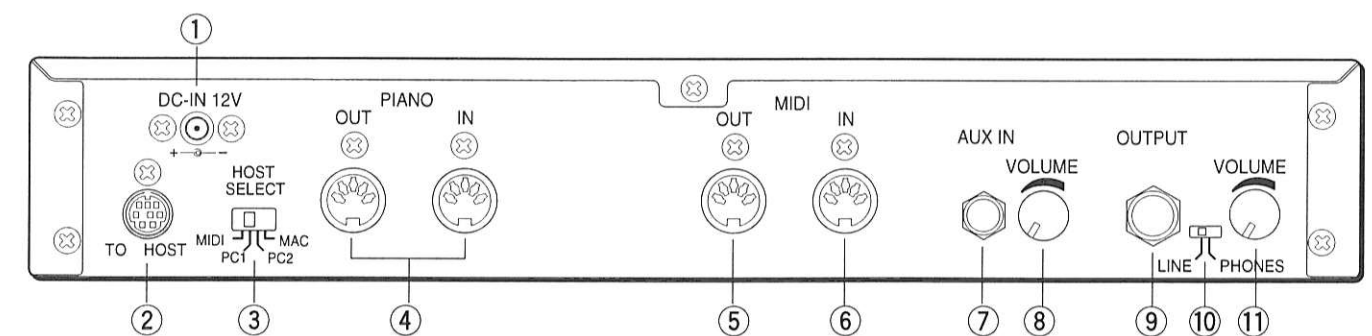
⑲ LED indicators

These LEDs indicate the playback volume level. They also function as a visual metronome.

⑳ Dial

This dial is used to adjust the volume and to set various parameter values.

Rear Panel

① DC IN

The AC adaptor (included) is connected here.

② TO HOST (serial port)

This connector is used to connect the DSR1 with a computer via serial cable.

③ HOST SELECT

This switch is used to select the host computer machine to be connected to the TO HOST connector.

④ PIANO OUT, IN

These connectors are used to connect the DSR1 to your piano via MIDI cable (supplied).

⑤ **MIDI OUT**

This connector is used to output MIDI data from the DSR1. It allows output to MIDI-compatible tone generators, synthesizers, samplers, etc.

⑥ **MIDI IN**

This connector provides access to the DSR1 and internal XG tone generator. You can connect a MIDI keyboard, synthesizer, or MIDI sequencer to control the DSR1, internal XG tone generator, or both.

⑦ **AUX IN**

This connector is used to receive audio signals from pianos with no MIDI IN connector.

⑧ **AUX IN VOLUME**

This is used to fine-adjust the volume of the audio signals that the AUX IN connector receives.

⑨ **OUTPUT**

This connector is used to output audio signals from the DSR1 to your piano. It is also used to connect a stereo headphone or a sound system.

⑩ **OUTPUT level select switch**

This switch is used to switch the OUTPUT connector to LINE OUT or HEADPHONE according to what is connected to it.

⑪ **OUTPUT VOLUME**

This is used to fine-adjust the output volume of the internal XG tone generator.

⑧ **[PAUSE] button**

Used to pause playback and recording.

⑨ **[STOP] button**

Used to stop playback and recording.

⑩ **[PART SELECT] buttons**

For L/R and Ensemble songs, these buttons are used to choose which part will play; left-hand part, right-hand part, or both parts. They are also used to select a part for recording.

⑪ **[SEARCH] button***

Used to start playback from a specific time in a song. Press this button, enter the start time using the Number keypad, then press this button again.

⑫ **[TRANSPOSE] buttons**

Used to transpose song playback.
Press the [–] button to transpose down, the [+] button to transpose up.
The [0] button is used to reset the transposition value to 00.

⑬ **[TEMPO] buttons**

Used to change the playback tempo.
Press the [–] button to decrease the tempo, the [+] button to increase the tempo.
The [0] button is used to reset the tempo to 00.

⑭ **[VOLUME] buttons**

Used to adjust the volume.
Press [–] button to decrease the volume, and the [+] button to increase the volume.

* *These buttons are available only on the remote control.*

Remote Control

YAMAHA
REMOTE CONTROL TRANSMITTER PPR-100
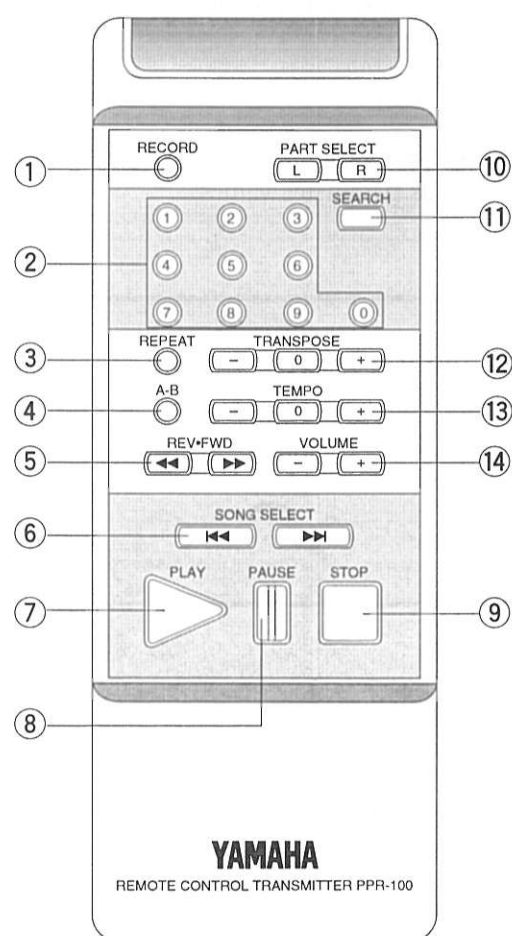
① **[RECORD] button**

Press to engage the Record Standby mode before recording starts.

② **Number keypad***

Used for direct song selection and to enter a start time for song playback.

③ **[REPEAT] button***

Used to select one of the Repeat functions: ALL, RPT, or RND.

④ **[A-B] button***

Used to enter A and B points for Segments A ~ B and A ~ Repeat modes.

⑤ **[REV·FWD] buttons**

In Play mode, these buttons work as fast preview and review.
In Pause mode, they work as fast forward and reverse.

⑥ **[SONG SELECT] buttons**

Used to select songs.

⑦ **[PLAY] button**

Used to start playback.