



Electronic Piano

P-140/P-140S

Owner's Manual

Bedienungsanleitung

Mode d'emploi

Manual de instrucciones

*Electronic
Piano*

ENGLISH

DEUTSCH

FRANÇAIS

ESPAÑOL

EN
DE
FR
ES

SPECIAL MESSAGE SECTION

This product utilizes batteries or an external power supply (adapter). DO NOT connect this product to any power supply or adapter other than one described in the manual, on the name plate, or specifically recommended by Yamaha.

WARNING: Do not place this product in a position where anyone could walk on, trip over, or roll anything over power or connecting cords of any kind. The use of an extension cord is not recommended! If you must use an extension cord, the minimum wire size for a 25' cord (or less) is 18 AWG. NOTE: The smaller the AWG number, the larger the current handling capacity. For longer extension cords, consult a local electrician.

This product should be used only with the components supplied or; a cart, rack, or stand that is recommended by Yamaha. If a cart, etc., is used, please observe all safety markings and instructions that accompany the accessory product.

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.

This product, either alone or in combination with an amplifier and headphones or speaker/s, may be capable of producing sound levels that could cause permanent hearing loss. DO NOT operate for long periods of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.

IMPORTANT: The louder the sound, the shorter the time period before damage occurs.

Some Yamaha products may have benches and / or accessory mounting fixtures that are either supplied with the product or as optional accessories. Some of these items are designed to be dealer assembled or installed. Please make sure that benches are stable and any optional fixtures (where applicable) are well secured BEFORE using.

Benches supplied by Yamaha are designed for seating only. No other uses are recommended.

NOTICE:

Service charges incurred due to a 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.

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 non-rechargeable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes necessary, contact a qualified service representative to perform the replacement.

This product may also use "household" type batteries. Some of these may be rechargeable. Make sure that the battery being charged is a rechargeable type and that the charger is intended for the battery being charged.

When installing batteries, do not mix batteries with new, or with batteries of a different type. Batteries MUST be installed correctly. Mismatches or incorrect installation may result in overheating and battery case rupture.

Warning:

Do not attempt to disassemble, or incinerate any battery. Keep all batteries away from children. Dispose of used batteries promptly and as regulated by the laws in your area. Note: Check with any retailer of household type batteries in your area for battery disposal information.

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. If your dealer is unable to assist you, please contact Yamaha directly.

NAME PLATE LOCATION:

The name plate is located on the bottom of the product. The model number, serial number, power requirements, etc., are located on this plate. You should record the model number, serial number, and the date of purchase in the spaces provided below and retain this manual as a permanent record of your purchase.

Model

Serial No.

Purchase Date

PLEASE KEEP THIS MANUAL

92-BP (bottom)

IMPORTANT SAFETY INSTRUCTIONS

INFORMATION RELATING TO PERSONAL INJURY, ELECTRICAL SHOCK, AND FIRE HAZARD POSSIBILITIES HAS BEEN INCLUDED IN THIS LIST.

WARNING- When using any electrical or electronic product, basic precautions should always be followed. These precautions include, but are not limited to, the following:

1. Read all Safety Instructions, Installation Instructions, Special Message Section items, and any Assembly Instructions found in this manual **BEFORE** making any connections, including connection to the main supply.
2. **Main Power Supply Verification:** Yamaha products are manufactured specifically for the supply voltage in the area where they are to be sold. If you should move, or if any doubt exists about the supply voltage in your area, please contact your dealer for supply voltage verification and (if applicable) instructions. The required supply voltage is printed on the name plate. For name plate location, please refer to the graphic found in the Special Message Section of this manual.
3. This product may be equipped with a polarized plug (one blade wider than the other). If you are unable to insert the plug into the outlet, turn the plug over and try again. If the problem persists, contact an electrician to have the obsolete outlet replaced. Do **NOT** defeat the safety purpose of the plug.
4. Some electronic products utilize external power supplies or adapters. Do **NOT** connect this type of product to any power supply or adapter other than one described in the owners manual, on the name plate, or specifically recommended by Yamaha.
5. **WARNING:** Do not place this product or any other objects on the power cord or place it in a position where anyone could walk on, trip over, or roll anything over power or connecting cords of any kind. The use of an extension cord is not recommended! If you must use an extension cord, the minimum wire size for a 25' cord (or less) is 18 AWG. **NOTE:** The smaller the AWG number, the larger the current handling capacity. For longer extension cords, consult a local electrician.
6. **Ventilation:** Electronic products, unless specifically designed for enclosed installations, should be placed in locations that do not interfere with proper ventilation. If instructions for enclosed installations are not provided, it must be assumed that unobstructed ventilation is required.
7. **Temperature considerations:** Electronic products should be installed in locations that do not significantly contribute to their operating temperature. Placement of this product close to heat sources such as; radiators, heat registers and other devices that produce heat should be avoided.
8. This product was **NOT** designed for use in wet/damp locations and should not be used near water or exposed to rain. Examples of wet/damp locations are; near a swimming pool, spa, tub, sink, or wet basement.
9. This product should be used only with the components supplied or; a cart, rack, or stand that is recommended by the manufacturer. If a cart, rack, or stand is used, please observe all safety markings and instructions that accompany the accessory product.
10. The power supply cord (plug) should be disconnected from the outlet when electronic products are to be left unused for extended periods of time. Cords should also be disconnected when there is a high probability of lightning and/or electrical storm activity.
11. Care should be taken that objects do not fall and liquids are not spilled into the enclosure through any openings that may exist.
12. Electrical/electronic products should be serviced by a qualified service person when:
 - a. The power supply cord has been damaged; or
 - b. Objects have fallen, been inserted, or liquids have been spilled into the enclosure through openings; or
 - c. The product has been exposed to rain; or
 - d. The product does not operate, exhibits a marked change in performance; or
 - e. The product has been dropped, or the enclosure of the product has been damaged.
13. Do not attempt to service this product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.
14. This product, either alone or in combination with an amplifier and headphones or speaker/s, may be capable of producing sound levels that could cause permanent hearing loss. **DO NOT** operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist. **IMPORTANT:** The louder the sound, the shorter the time period before damage occurs.
15. Some Yamaha products may have benches and/or accessory mounting fixtures that are either supplied as a part of the product or as optional accessories. Some of these items are designed to be dealer assembled or installed. Please make sure that benches are stable and any optional fixtures (where applicable) are well secured **BEFORE** using. Benches supplied by Yamaha are designed for seating only. No other uses are recommended.

PLEASE KEEP THIS MANUAL

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

* Please keep this manual in a safe place for future reference.



WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

Power supply/AC power adaptor

- Only use the voltage specified as correct for the instrument. The required voltage is printed on the name plate of the instrument.
- Use the specified adaptor (PA-5D or an equivalent recommended by Yamaha) only. Using the wrong adaptor can result in damage to the instrument or overheating.
- Check the electric plug periodically and remove any dirt or dust which may have accumulated on it.
- Do not place the AC adaptor cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.

Do not open

- Do not open the instrument or attempt to disassemble the internal parts or modify them in any way. The instrument contains no user-serviceable parts. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.

Water warning

- Do not expose the instrument to rain, use it near water or in damp or wet conditions, or place containers on it containing liquids which might spill into any openings.
- Never insert or remove an electric plug with wet hands.

Fire warning

- Do not put burning items, such as candles, on the unit. A burning item may fall over and cause a fire.

If you notice any abnormality

- If the AC adaptor cord or plug becomes frayed or damaged, or if there is a sudden loss of sound during use of the instrument, or if any unusual smells or smoke should appear to be caused by it, immediately turn off the power switch, disconnect the adaptor plug from the outlet, and have the instrument inspected by qualified Yamaha service personnel.



CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the instrument or other property. These precautions include, but are not limited to, the following:

Power supply/AC power adaptor

- When removing the electric plug from the instrument or an outlet, always hold the plug itself and not the cord.
- Unplug the AC power adaptor when not using the instrument, or during electrical storms.
- Do not connect the instrument to an electrical outlet using a multiple-connector. Doing so can result in lower sound quality, or possibly cause overheating in the outlet.

Location

- Do not expose the instrument to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration or damage to the internal components.
- Do not use the instrument in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Otherwise, the instrument, TV, or radio may generate noise.

- Do not place the instrument in an unstable position where it might accidentally fall over.
- Before moving the instrument, remove all connected adaptor and other cables.
- When setting up the instrument, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet.
- Use only the stand specified for the instrument. When attaching the stand or rack, use the provided screws only. Failure to do so could cause damage to the internal components or result in the instrument falling over.

Connections

- Before connecting the instrument to other electronic components, turn off the power for all components. Before turning the power on or off for all components, set all volume levels to minimum. Also, be sure to set the volumes of all components at their minimum levels and gradually raise the volume controls while playing the instrument to set the desired listening level.

Maintenance

- When cleaning the instrument, use a soft, dry cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

Handling caution

- Do not insert a finger or hand in any gaps on the instrument.
- Never insert or drop paper, metallic, or other objects into the gaps on the panel or keyboard. If this happens, turn off the power immediately and unplug the power cord from the AC outlet. Then have the instrument inspected by qualified Yamaha service personnel.
- Do not place vinyl, plastic or rubber objects on the instrument, since this might discolor the panel or keyboard.
- Do not rest your weight on, or place heavy objects on the instrument, and do not use excessive force on the buttons, switches or connectors.
- Do not operate the instrument for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.

Saving data

Saving and backing up your data

- Data in the instrument's internal memory can be lost due to operational errors or malfunction. Be sure to save any important data to external media via a computer connection. (page 50)

Yamaha cannot be held responsible for damage caused by improper use or modifications to the instrument, or data that is lost or destroyed.

Always turn the power off when the instrument is not in use.

Even when the instrument turns the power off, electricity is still flowing to the instrument at the minimum level. When you are not using the instrument for a long time, make sure you unplug the AC power adaptor from the wall AC outlet.

Introduction

Thank you for purchasing the Yamaha Electronic Piano P-140/P-140S!

*We recommend that you read this manual carefully
so that you can fully take advantage of the advanced and
convenient functions of the P-140/P-140S.*

*We also recommend that you keep this manual in a safe and
handy place for future reference.*

Main Features

■ Graded Hammer Effect Keyboard

Thanks to our experience as the world's leading manufacturer of acoustic pianos, we've developed a keyboard with action that's virtually indistinguishable from the real thing. Just as on a traditional acoustic piano, the keys of the lower notes have a heavier touch, while the higher ones are more responsive to lighter playing. The keyboard's sensitivity can even be adjusted to match your playing style.

■ Dynamic Stereo Sampling

The Yamaha P-140 Electronic piano offers unmatched sonic realism and natural grand-piano type playability as well as Yamaha's original AWM Dynamic Stereo Sampling tone generation technology for rich, musical voices.

The Grand Piano 1, 2 and 3 voices feature totally new samples painstakingly recorded from a full concert grand piano. The Grand Piano 1 and 3 voices feature three velocity-switched samples (Dynamic Sampling), special Sustain Sampling (page 43) that samples the unique resonance of an acoustic grand piano's soundboard and strings when the sustain pedal is pressed, and Keyoff Samples that add the subtle sound produced when the keys are released. The P-140 comes much closer to the sound of a true acoustic piano.

About this Owner's Manual

This manual consists of three main sections: Introduction, Reference and Appendix.

■ **Introduction (page 6):**

Please read this section first.

■ **Reference (page 14):**

This section explains how to make detailed settings for the P-140's various functions.

■ **Appendix (page 58):**

This section introduces reference material.

- * The illustrations and displays as shown in this owner's manual are for instructional purposes only, and may appear somewhat different from those on your instrument.
- * Copying of the commercially available musical data including but not limited to MIDI data and/or audio data is strictly prohibited except for your personal use.
- * The models P-140/P-140S will be referred to as the P-140 in this Owner's Manual.

This product incorporates and bundles computer programs and contents in which Yamaha owns copyrights or with respect to which it has license to use others' copyrights. Such copyrighted materials include, without limitation, all computer software, style files, MIDI files, WAVE data, musical scores and sound recordings. Any unauthorized use of such programs and contents outside of personal use is not permitted under relevant laws. Any violation of copyright has legal consequences. DON'T MAKE, DISTRIBUTE OR USE ILLEGAL COPIES.

- The company names and product names in this Owner's Manual are the trademarks or registered trademarks of their respective companies.

Accessories

- **Owner's Manual**

This manual contains complete instructions for operating your P-140.

- **Yamaha PA-5D Power Adaptor ***
- **Pedal (FC3)**
- **Music Rest**

- * May not be included depending on your particular area. Please check with your Yamaha dealer.

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Settings

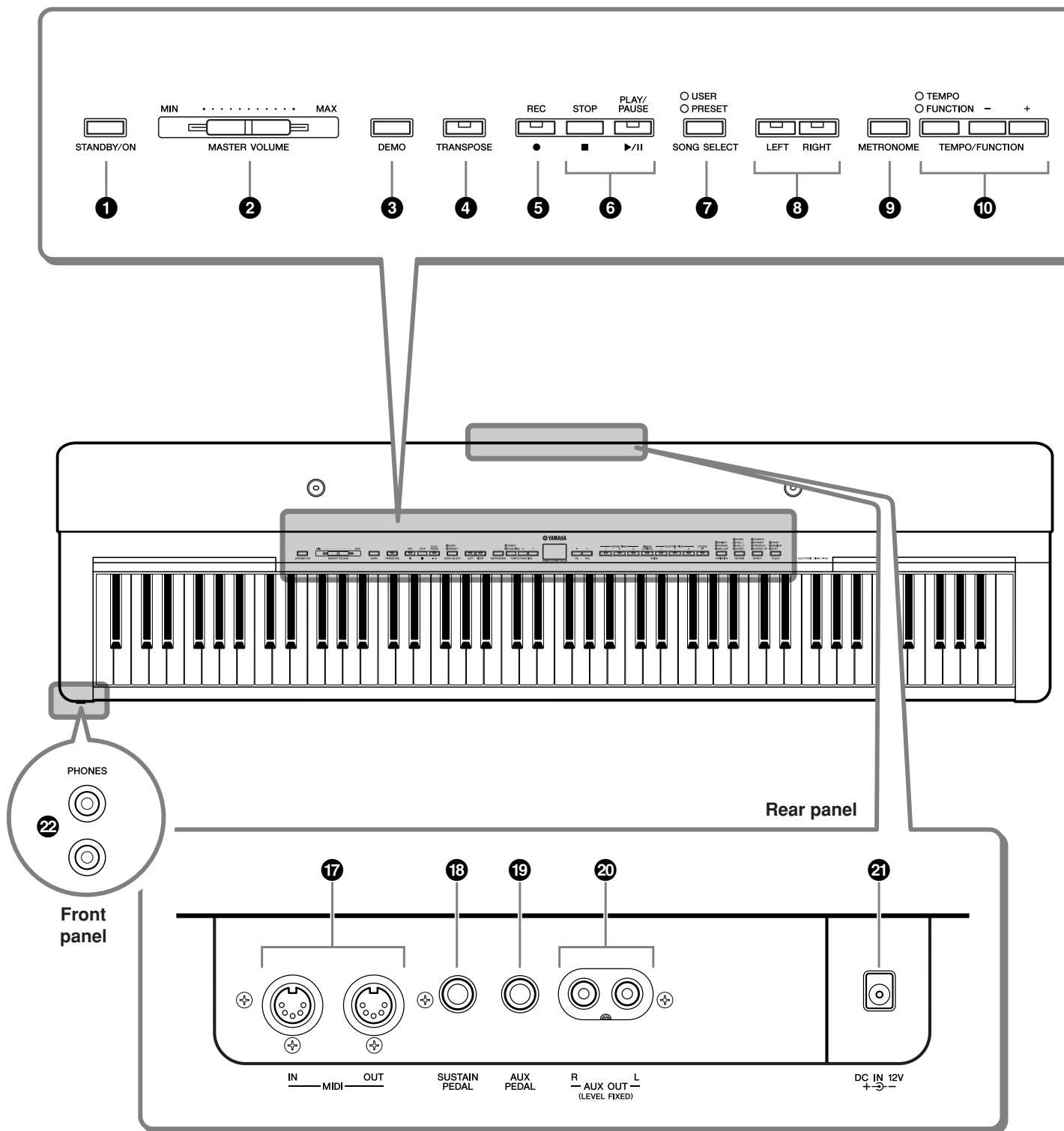
- Adjusting the P-140 settings Detailed Settings – [FUNCTION] on page 36
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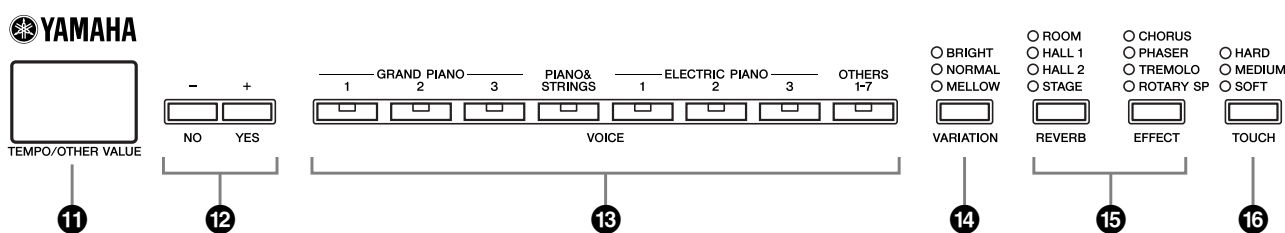
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- What is MIDI? About MIDI on page 47
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- Loading the data from a computer Playing Back Songs on page 34

Panel Controls and Terminals

ENGLISH





- 1** [STANDBY/ON] switch page 12
For turning the power on or off.
- 2** [MASTER VOLUME] slider page 12
For adjusting the volume level of the entire sound.
- 3** [DEMO] button page 14
For playing the demo songs.
- 4** [TRANSPOSE] button page 26
For shifting the pitch of the entire keyboard up or down.
- 5** [REC] button page 28
For recording your keyboard performance.
- 6** [PLAY/PAUSE], [STOP] buttons
.....pages 15, 34
For playing back the preset songs, your recorded material or commercially available music data, etc.
- 7** [SONG SELECT] buttonpages 15, 34
For selecting a song to play back or edit.
- 8** [RIGHT], [LEFT] buttonspages 16, 35
For turning the left- and right-hand parts on or off as required so you can practice the corresponding part (the part that is turned off) on the keyboard.
- 9** [METRONOME] buttonpages 27, 44
For starting/stopping the metronome function.
- 10** [TEMPO/FUNCTION -, +] button
.....pages 27, 37
For changing the song tempo (speed) and selecting other useful functions (pages 36-46).
- 11** Display page 12
For showing information on certain settings and values of the instrument.
- 12** [-/NO], [+/YES] buttons
For setting values or performing file operations. Pressing both buttons simultaneously for certain value settings (Transpose, Tempo, etc.) restores the default value.
- 13** Voice group buttons page 19
For selecting voices from 14 internal sounds including Grand Piano 1, 2 and 3.
- 14** [VARIATION] button page 23
For adjusting the brightness of the selected voice for your keyboard performance.
- 15** [REVERB], [EFFECT] buttons page 24
For adding reverb and chorus effects to the selected voice for your keyboard performance.
- 16** [TOUCH] button page 25
For selecting the touch response.
- 17** MIDI [IN] [OUT] terminals page 47
For connecting external MIDI devices, allowing the use of various MIDI functions.
- 18** [SUSTAIN PEDAL] jack pages 13, 47
For connecting an included pedal (FC3) or an optional FC4/5 foot switch.
- 19** [AUX PEDAL] jack pages 13, 48
For connecting an included pedal (FC3), an optional FC4/5 foot switch or an FC7 foot controller.
- 20** AUX OUT [L] [R] (LEVEL FIXED) jacks
..... page 48
For outputting the sound of the P-140 to an external audio system, or connecting it to another device (MD recorder, etc.) to record your performance.
- 21** [DC IN 12V] jack page 12
For connecting the included power adaptor (PA-5D).
- 22** [PHONES] jack page 13
For connecting a set of standard stereo headphones, allowing private practice.

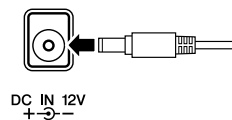
CAUTION

Never attempt to turn off the power while flashing dashes appear in the display, indicating data is being written to internal memory. Doing so may result in loss of all user data.

Before Using the P-140

Turning the Power On

1. Connect the PA-5D power adaptor's DC cable to the [DC IN 12V] jack.



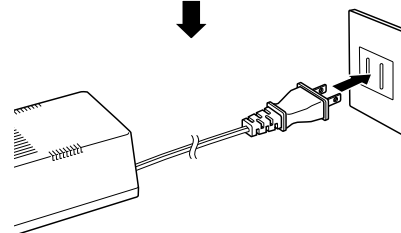
2. Plug the AC adaptor into an AC outlet.

⚠ WARNING

Use ONLY a Yamaha PA-5D AC Power Adaptor (or other adaptor specifically recommended by Yamaha) to power your instrument from the AC mains. The use of other adaptors may result in irreparable damage to both the adaptor and the P-140.

⚠ CAUTION

Unplug the AC Power Adaptor when not using the P-140, or during electrical storms.



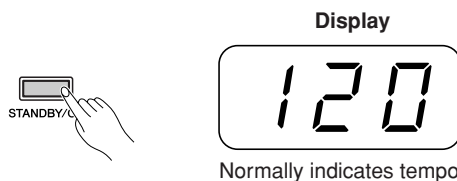
3. Press the [STANDBY/ON] switch to turn the power on.

The display located in the center of the front panel lights up. When you're ready to turn off the power, press the [STANDBY/ON] switch again.

⚠ CAUTION

Even when the instrument is turned off, electricity is still flowing to the instrument at the minimum level. When you are not using the P-140 for a long time, make sure you unplug the AC power adaptor from the wall AC outlet.

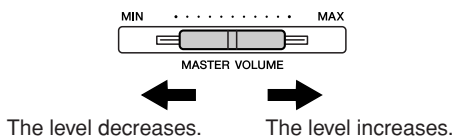
When turning off the power, press and hold down the [STANDBY/ON] switch for a short time until the power turns off. The P-140 uses this power-off procedure as a "safety" device to prevent the power from being inadvertently turned off during performance.



Normally indicates tempo.

Setting the Volume

Initially set the [MASTER VOLUME] slider about halfway between the "MIN" and "MAX" settings. Then, when you start playing, re-adjust the [MASTER VOLUME] slider to the most comfortable listening level.

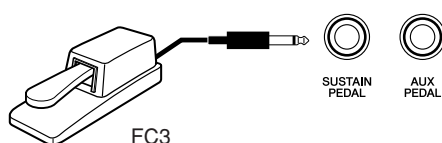


TERMINOLOGY

MASTER VOLUME:

The volume level of the entire keyboard sound

Using the Pedals



Sustain Pedal (Sustain Pedal jack)

This jack is for connecting the included pedal (FC3).

The pedal functions in the same way as a damper pedal on an acoustic piano. Connect the included pedal (FC3) to this jack and press the pedal to sustain the sound. The further down the pedal is pressed, the longer the sound will be sustained (can be used like a half pedal effect).

When the GRAND PIANO 1 and 3 voices are selected, pressing the FC3 pedal activates the instrument's special Sustain Samples to accurately recreate the unique resonance of an acoustic grand piano's soundboard and strings.

An optional FC4/FC5 foot switch can also be connected to this jack. However, these foot switches cannot be used to control the half pedal effect.



The depth of the effect produced by the Sustain Samples can be adjusted via the Pedal Functions (pages 37, 43) in Function.

AUX Pedal (AUX Pedal jack)

This jack is for connecting an optional FC4/FC5 foot switch or an optional FC7 foot controller. A wide range of functions, including the Soft Pedal function can be assigned to this jack. For instructions on assigning the pedal, refer to pages 37, 43.



The FC7 Foot Controller can be used to control Expression (pages 37, 43).

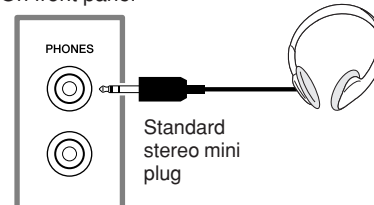
Using Headphones

Connect a set of headphones to one of the [PHONES] jacks.

Two [PHONES] jacks are provided.

You can connect two sets of standard stereo headphones. (If you are using only one set of headphones, you can plug them into either jack.)

On front panel

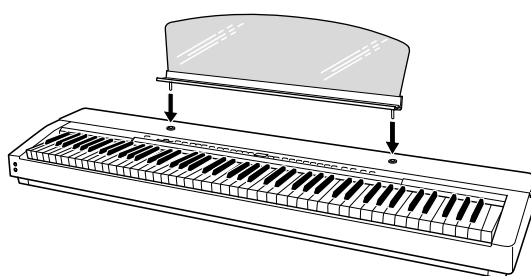


CAUTION

Do not use the P-140 at a high volume level for a long period of time, or your hearing may be damaged.

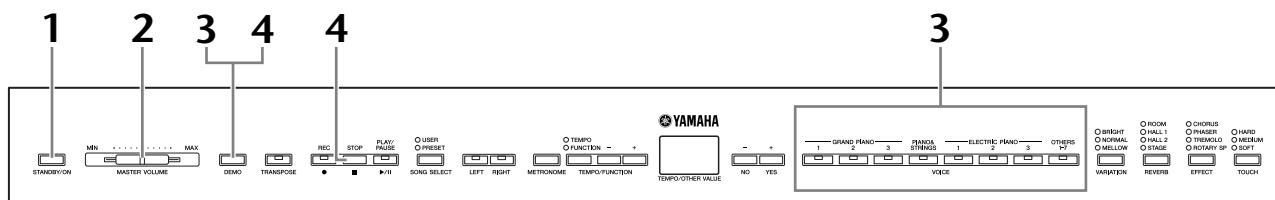
Music Rest

The P-140 includes a music rest that can be attached to the instrument by inserting it into the holes at the top of the control panel.



Listening to the Demo Songs

Demo songs are provided that effectively demonstrate each of the P-140's voices.



ENGLISH

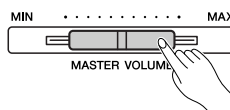
1. Press the [STANDBY/ON] switch to turn the power on.

When the power is turned ON, one of the voice button indicators will light.



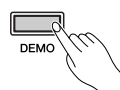
2. Adjust the volume.

Initially set the [MASTER VOLUME] slider about half way between the "MIN" and "MAX" settings. Then, when you start playing, re-adjust the [MASTER VOLUME] slider to the most comfortable listening level.



3. Press the [DEMO] button to listen to the Demo songs.

The VOICE button indicators will flash in sequence, then the GRAND PIANO 1 demo song will start. Demo songs provided for each voice will play back in sequence until you press the [DEMO] or [STOP] button.



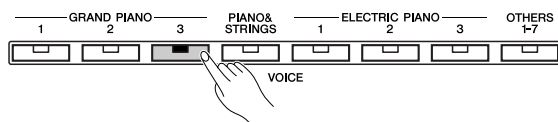
Changing a demo song

You can change to another Demo song during playback by pressing the desired VOICE button.

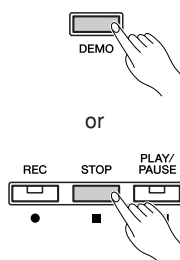
Demo Song List

Voice Name	Title	Composer
GRAND PIANO 3	"Eintritt" Waldszenen Op.82	R. Schumann
HARPSICHORD ([OTHERS] 4)	Gavotte	J.S. Bach

- The demonstration pieces listed above are short rearranged excerpts of the original compositions.
- All other songs are original (© 2005 Yamaha Corporation).



4. Press the [DEMO] or [STOP] button to stop the Voice demo.



Demo song data is not transmitted via the MIDI terminals.



Demo songs cannot be played during User song recording (page 28).



You cannot adjust the tempo of demo songs. You cannot use the Part Cancel function (page 16) or the Song A-B Repeat function (page 18) in Demo.



Seven voices (page 19) are assigned to the [OTHERS] button. The demo songs for these voices are called up in sequence each time the [OTHERS] button is pressed during playback.

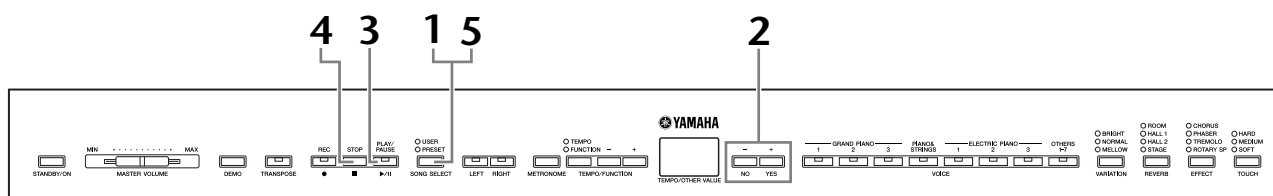


You can adjust the Variation type (page 23) and Reverb type (page 24) that is applied to the voice you play on the keyboard and for the preset song playback.

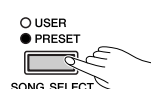
Using the 50 Piano Preset Songs

Listening to the 50 Piano Preset Songs

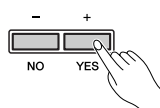
The P-140 provides performance data of 50 piano songs. You can simply listen to these songs (page 58) or use them for practice (page 16).



1. Press the [SONG SELECT] button a few times until the "PRESET" indicator lights.



2. Press the [-/NO], [+ /YES] buttons to select the number of the tune you want to play.



The number will appear on the display.

1 – 50: Select a preset song number and play only the song.

ALL: Play all preset songs in sequence.

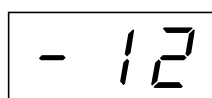
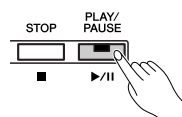
rand: Play all preset songs continuously in random order.

3. Press the [PLAY/PAUSE] button to start playback.

Adjust the tempo

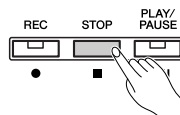
You can use the [TEMPO/FUNCTION -, +] buttons to adjust the playback tempo as required. This produces a relative tempo variation, with a range from "-50" through "0" to "50" at maximum; the range will differ depending on the selected song.

The default tempo can be recalled by simultaneously pressing the [-] and [+] buttons.



4. Stop playback.

Playback will stop automatically when the selected preset song has finished. To stop the song during playback (or continuous playback), press the [STOP] button. You can also pause playback by pressing the [PLAY/PAUSE] button. To play back another song continuously, see step 2 above.



5. Press the [SONG SELECT] button to exit Preset Song playback.

The indicator turns off, and the instrument returns to normal play.

TERMINOLOGY

Song:

On the P-140, performance data is called a "Song." This includes demonstration tunes and piano preset tunes.

Preset:

Preset Data supplied with the internal memory of the P-140 shipped from the factory.



The default tempo "0" is automatically selected whenever a new preset song is selected, or when playback of a new preset song begins during "ALL" or "rand" playback.



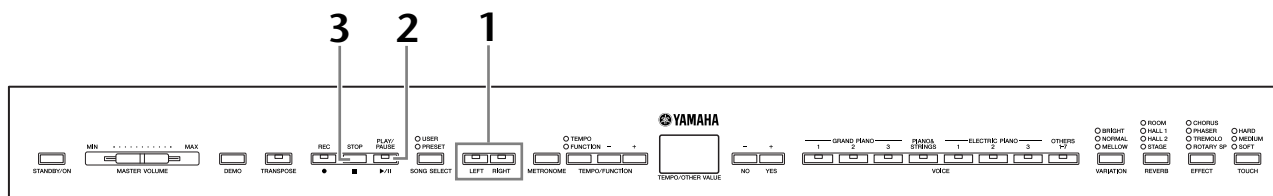
When you select a different song (or a different song is selected during chained playback), appropriate reverb and effect types will be selected accordingly.



You can adjust the Variation type (page 23) and Reverb type (page 24) that is applied to the voice you play on the keyboard and for the preset song playback.

Practicing a One-Hand Part Using the 50 Preset Songs (Part Cancel Function)

The 50 preset songs have separate left- and right-hand parts on individual parts. You can turn the left- and right-hand parts on or off as required so you can practice the corresponding part (the part that is turned off) on the keyboard. The right-hand part is played by **[RIGHT]** and the left-hand part is played by **[LEFT]**.

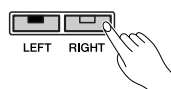


1. Turn off the playback part you wish to practice.

After you select a song to practice, press the **[RIGHT]** or **[LEFT]** button to turn off the corresponding part.

When you first select a song, both **[RIGHT]** and **[LEFT]** indicators light up, indicating that you can play back both parts. When you press one of the buttons to turn off playback, the corresponding button indicator turns off and the corresponding part playback is muted.

Pressing the buttons repeatedly toggles playback between on and off. The parts can be turned on or off even during playback.



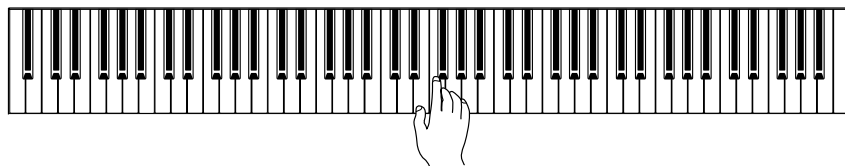
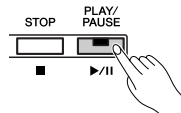
The Preset Song Part Cancel function cannot be used during "RL L" or "r rd" (page 15) playback.



The "Song Part Cancel Volume" function described on pages 37, 44 can be used to set the canceled part so that it plays at a volume from "0" (no sound) to "20." The default setting is "5."

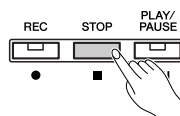
2. Press the **[PLAY/PAUSE]** button to start playback and playing.

Play the part you just turned off.



3. Stop playback.

When playback is complete, it automatically stops and the P-140 locates the top of the song. If you wish to stop playback in the middle of a song, press the **[STOP]** button. You can also pause playback by pressing the **[PLAY/PAUSE]** button.

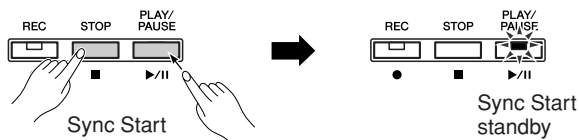


Starting playback automatically as you start playing the keyboard (Sync Start)

When the Sync Start function is engaged, playback of the selected preset song will begin automatically as soon as you start playing on the keyboard.

To engage the Sync Start function, simultaneously hold down the **[STOP]** and press the **[PLAY/PAUSE]** button. Repeat the previous operation to disengage the Sync Start function.

Playback will then start as soon as you begin playing the keyboard.



Pedal Play/Pause

A pedal connected to the **[AUX PEDAL]** connector can be assigned to play and pause preset song playback via the AUX Pedal function described on pages 37, 43.

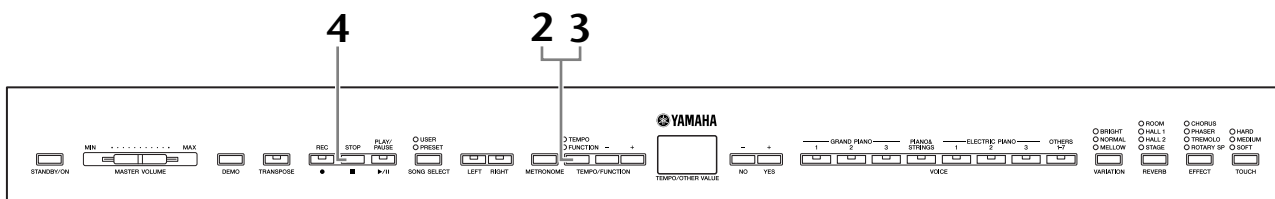
TERMINOLOGY

Sync:

Synchronized; occurring at the same time.

A-B Repeat for the 50 Preset Songs

The A-B Repeat function can be used to continuously repeat a specified phrase within a preset song. Combined with the Part Cancel function described below, this provides an excellent way to practice difficult phrases.

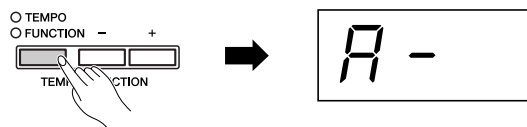


ENGLISH

1. Select and play a preset song.

2. Press the [TEMPO/FUNCTION] button at the beginning of the phrase you want to repeat.

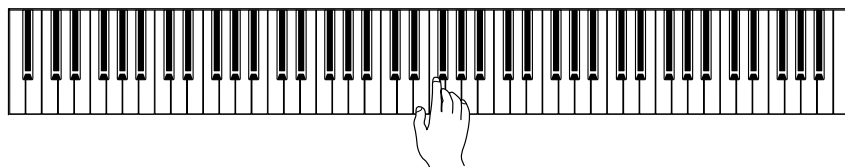
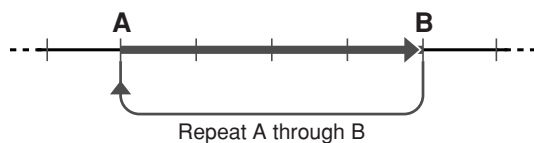
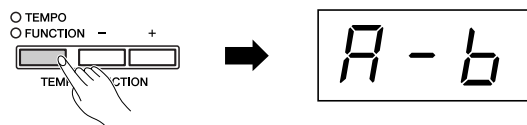
This sets the “A” point (A- will appear on the display).



3. Press the [TEMPO/FUNCTION] button a second time at the end of the phrase.

This sets the “B” point (A-b will appear on the display).

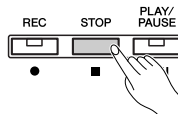
At this point, repeat playback will begin between the specified A and B points.



4. Press the [STOP] button to stop playback.

A-B repeat playback will resume if you press the [PLAY/PAUSE] button.

To cancel the A and B points, press the [TEMPO/FUNCTION] button once.



The A-B Repeat function cannot be used during “ALL” or “end” (page 15) playback.



- To set the “A” point at the very beginning of the song, press the [TEMPO/FUNCTION] button before starting playback.
- You can have the B point automatically be set to the song’s end, by setting the A point and letting the song play to the end.



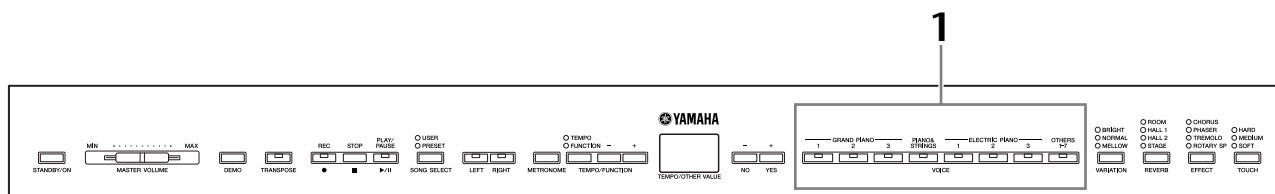
An automatic lead-in (to help guide you into the phrase) starts at the A point of the song.



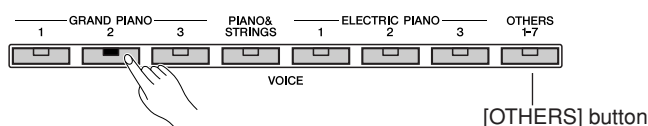
The A and B points are automatically canceled when a new song is selected.

Selecting & Playing Voices

Selecting Voices



1. Select the desired voice by pressing one of the Voice buttons.



[OTHERS] button

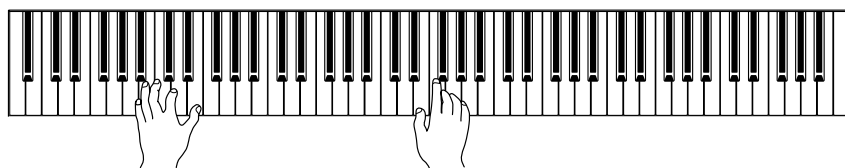
Pressing the [OTHERS] button switches among the following seven voices.



1	CHURCH ORGAN
2	JAZZ ORGAN
3	STRINGS
4	HARPSI CHORD
5	E. CLAVI CHORD
6	VIBRAPHONE
7	SPLIT

For details about “1 7 SPLIT,” refer to page 21.

Then, when you start playing, re-adjust the [MASTER VOLUME] slider for the most comfortable listening level.



To familiarize yourself with the characteristics of the voices, listen to the demo songs for each voice (page 14). Refer to “Preset Voice List” on page 53 for more information on the characteristics of each preset voice.

TERMINOLOGY

Voice:

On the P-140, the term “voice” means “instrument sound.”



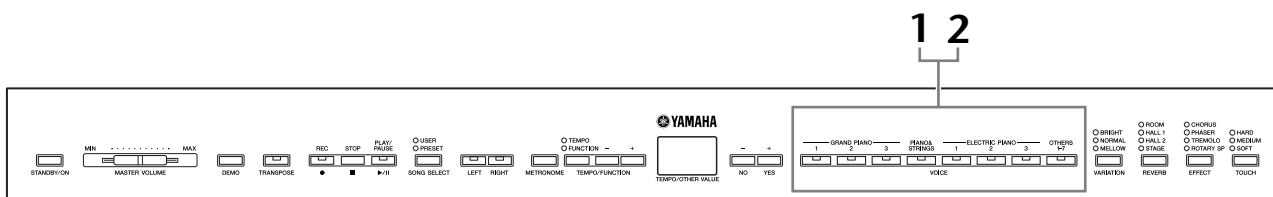
You can control the loudness of a voice by adjusting the force with which you strike the keys, although different playing styles (touch sensitivities) have little or no effect with certain musical instruments. Refer to “Preset Voice List” on page 53.



If you select the voice via the [OTHERS] button then press another VOICE button, the voice last selected via the [OTHERS] button will be maintained. In other words, pressing the [OTHERS] button again calls up the last selected voice.

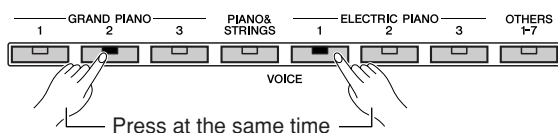
Combining Voices (Dual)

You can play voices simultaneously across the entire range of the keyboard. In this way, you can combine similar voices to create a thicker sound.



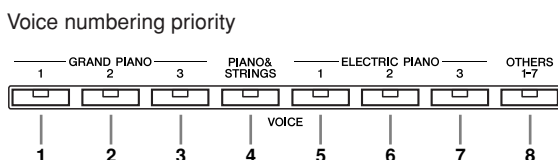
1. Press two voice buttons at the same time (or press one voice button while holding another) to engage Dual.

The voice indicators of both selected voices will light when Dual is active. Play the keyboard.



If you want to use a voice selected via the [OTHERS] button, press the [OTHERS] button several times to call up the desired voice (other than “SPLIT”) while holding any other VOICE button.

According to the voice numbering priority shown in the diagram below, the lower value voice number will be designated as Voice 1 (the other voice will be designated as Voice 2).



The P-140 Function provides access to a number of other Dual functions, such as volume balance setting and octave setting (pages 37, 41). (If you do not set the Dual functions, the appropriate setting will be set in each voice by default.)

2. Press any single voice button to return to the normal single-voice play.



Two voices in the [OTHERS] button cannot be engaged at the same time.



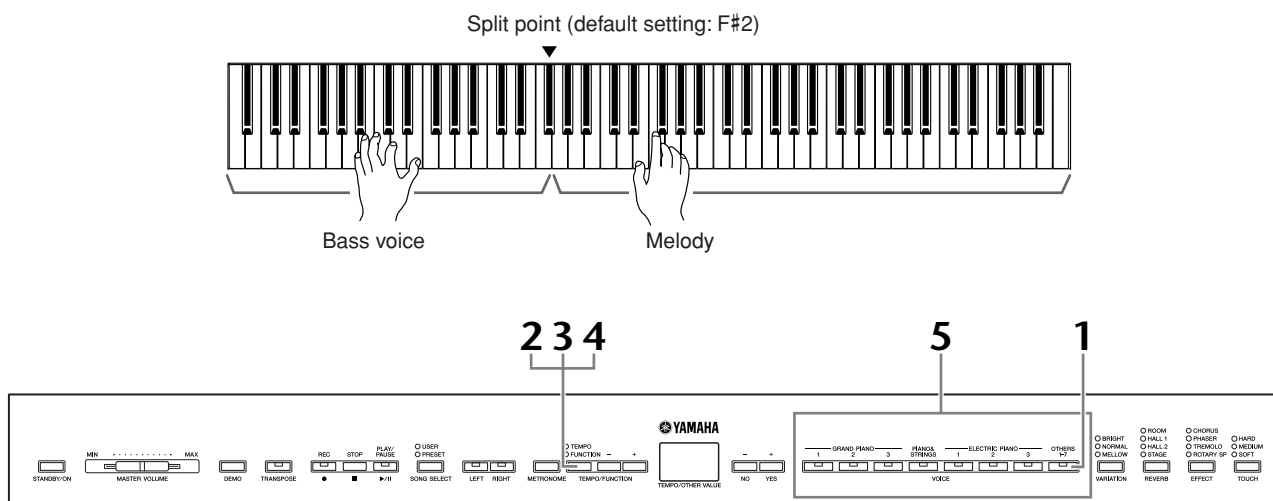
Dual is not available when “SPLIT” is selected via the [OTHER] button.



The PIANO & STRINGS voice combines the sounds of piano and strings. Pressing the [PIANO&STRINGS] button will produce the same result as Dual. You can combine other voices with this voice; however, keep in mind that the sound may cut off unnaturally.

Splitting the Keyboard Range and Playing Two Different Voices (Split)

Split enables you to play two different voices on the keyboard — one with the left hand and another with the right hand. For example, you can play a bass part using the Wood Bass or Electric Bass voice with the left hand, and a melody with the right hand.

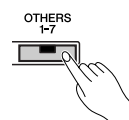
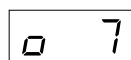


1. Press the [OTHERS] button several times until "0 7" is called up in the display.

The [OTHERS] button lights.

As a default setting, GRAND PIANO 1 will be selected for the right-hand part and WOOD BASS will be selected for the left-hand part.

The Function provides access to a number of other Split functions (pages 37, 42). (If you make no settings for the Split functions, the appropriate setting will be set in each voice by default.)



2. Specify the split point (the border between the right- and left-hand range).

The Split Point can be specified from the FUNCTION display. For details, refer to pages 37, 42.

(The split point is initially set at the F#2 key by default.

If you do not need to change the split point, skip this step.)

3. Select a voice for the right hand.

A voice for the right hand can be selected from the following 13 voices in the FUNCTION display. For details, refer to pages 37, 42.

1	GRAND PIANO 1
2	GRAND PIANO 2
3	GRAND PIANO 3
4	PIANO & STRINGS
5	ELECTRIC PIANO 1
6	ELECTRIC PIANO 2
7	ELECTRIC PIANO 3
8	CHURCH ORGAN
9	JAZZ ORGAN
10	STRINGS
11	HARPSICHORD
12	E.CLAVICHORD
13	VIBRAPHONE

4. Select a voice for the left hand.

A voice for the left hand can be selected from the following four voices in the FUNCTION display. For details, refer to pages 37, 42.

1	WOOD BASS
2	BASS & CYMBAL
3	E.BASS 1
4	E.BASS 2

5. Press any single voice button to exit Split and return to normal play.



[REVERB] in Split

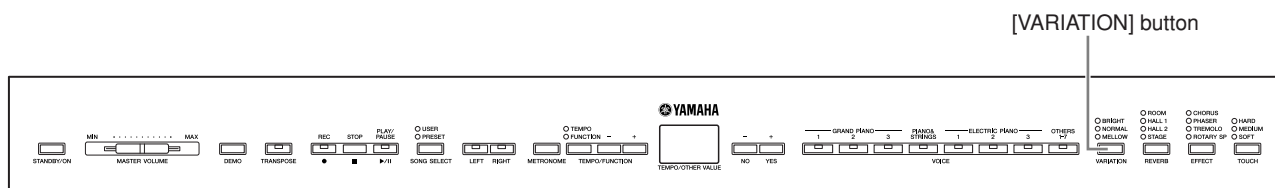
The reverb type assigned to the right voice will take priority over the other. (If the reverb is set to OFF, the left voice's reverb type will be in effect.) Reverb depth settings made via the panel controls (i.e., pressing the **[-/NO]** or **[+/YES]** buttons while holding the **[REVERB]** button; see page 24) will be applied to the right voice only.



[EFFECT] in Split

Depending on the conditions, one effect type will take priority over the other. The depth will be decided according to the default depth value of the voice combination. However, using Function F4 (pages 37, 42) you can change the depth value for each voice as you like. Effect depth settings made via the panel controls (i.e., pressing the **[-/NO]** or **[+/YES]** buttons while holding the **[EFFECT]** button; see page 24) will be applied to the right voice only.

Adding Variations to the Sound – [VARIATION]



[VARIATION]

This button enables you to select the brightness of the selected voice for your keyboard performance. The following three types are available.

- BRIGHT:** Bright tone
- NORMAL:** Standard tone
- MELLOW:** Soft and mellow tone



To select a variation type, press the [VARIATION] button a few times until the indicator corresponding to the desired type lights (the indicator lights in sequence each time you press the [VARIATION] button). Variation can be selected among three types.

TERMINOLOGY

Default setting:

The "Default setting" refers to the factory setting obtained when you first turn on the power to the P-140.

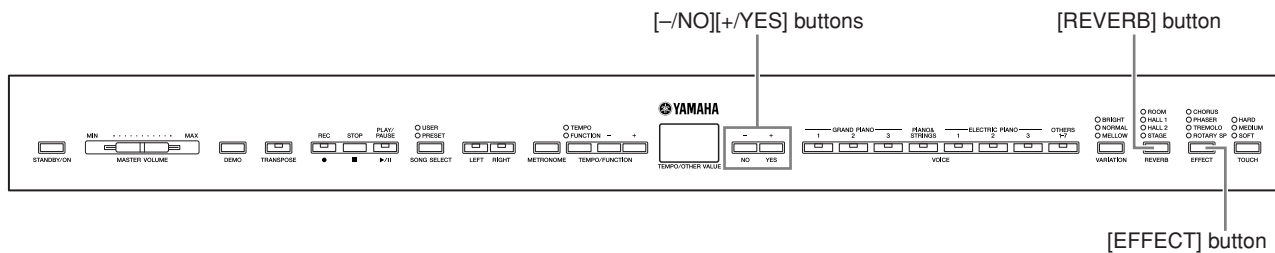


Default setting = NORMAL



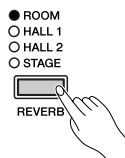
When the VARIATION is set to BRIGHT, the overall sound will be slightly louder. If the MASTER VOLUME is set at a high level the sound may become distorted. If so, lower the MASTER VOLUME level.

Selecting a Reverb/Effect type – [REVERB]/[EFFECT]



[REVERB]

This control enables you to select various digital reverb effects for adding extra depth and expression to the sound and creating a realistic acoustic ambience.



- OFF:** When no reverb effect is selected, no REVERB indicator is lit.
- ROOM:** This setting adds a continuous reverb effect to the sound, similar to the acoustic reverberation you would hear in a room.
- HALL 1:** For a “bigger” reverb sound, use the HALL 1 setting. This effect simulates the natural reverberation of a small-size concert hall.
- HALL 2:** For a truly spacious reverb sound, use the HALL 2 setting. This effect simulates the natural reverberation of a large concert hall.
- STAGE:** Simulates the reverb of a stage environment.

Pressing the [REVERB] button repeatedly toggles the reverb on and off. The indicators light in sequence each time the [REVERB] button is pressed. When all indicators are off, no effect is produced.

Adjusting Reverb Depth

Adjust the reverb depth for the selected voice by using the [-/NO] [+ /YES] buttons while holding the [REVERB] button. Default depth settings are different for each voice. The depth range is from 0 (no effect) through 20 (maximum reverb depth). The current depth setting appears on the display while the [REVERB] button is held.



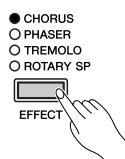
The default reverb type (including OFF) and depth settings are different for each voice.



Releasing the [REVERB] button changes the reverb type. If you are changing the reverb depth by holding the [REVERB] button, releasing the [REVERB] button will not change the reverb type.

[EFFECT]

The [EFFECT] button allows you to select an effect to give your sound greater depth and animation.



- OFF:** When no effect is selected, no EFFECT indicator is lit.
- CHORUS:** Adds depth and richness to the sound.
- PHASER:** Adds a sweeping effect to the sound.
- TREMOLO:** Adds an animated, vibrating effect to the sound.
- ROTARY SP:** Adds the vibrato effect of a rotary speaker.

To select an effect type, press the [EFFECT] button a few times until the indicator corresponding to the desired type lights (the indicators light in sequence each time you press the [EFFECT] button). No effect is produced when all indicators are off.

Adjusting Effect Depth

You can adjust the effect depth for the selected voice by using the [-/NO] and [+ /YES] buttons while holding the [EFFECT] button. Default depth settings are different for each voice. The depth range is from 0 (no effect) through 20 (maximum effect depth). The current depth setting appears on the display while the [EFFECT] button is held.

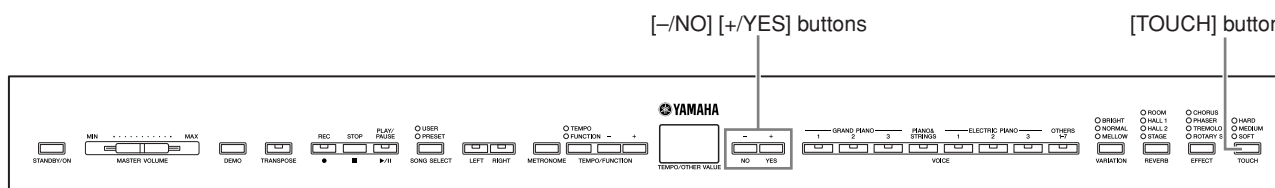


The default effect type (including OFF) and depth settings are different for each voice.



Releasing the [EFFECT] button changes the effect type. If you are changing the depth settings by holding the [EFFECT] button, releasing the [EFFECT] button will not change the effect type.

Touch Sensitivity – [TOUCH]

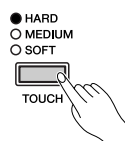


[TOUCH]

You can select four different types of keyboard touch sensitivity — HARD, MEDIUM, SOFT or FIXED — to match different playing styles and preferences.

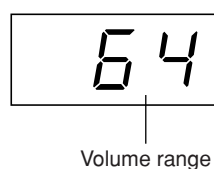
- HARD:** Requires that the keys be played quite hard to produce maximum loudness.
- MEDIUM:** Produces a fairly “standard” keyboard response.
- SOFT:** Allows maximum loudness to be produced with relatively light key pressure.
- FIXED:** All notes are produced at the same volume no matter how hard the keyboard is played. (No indicators are lit.) The fixed volume can be changed.

To select a touch sensitivity type press the [TOUCH] button a few times until the indicator corresponding to the desired type lights (the indicators light in sequence each time the [TOUCH] button is pressed). No indicator is lit when “FIXED” is selected.



Changing the volume when FIXED is selected

When you select FIXED, you can set the volume for notes played in FIXED by using the [-/NO] and [+/YES] buttons while you hold the [TOUCH] button. The current volume level appears on the display. The volume range is from 1 (minimum volume) through 127 (maximum volume). The default setting is 64.



This setting does not change the weight of the keyboard.



Default setting = MEDIUM



The touch sensitivity type will become the common setting for all voices. However, the touch sensitivity settings may have little or no effect with certain voices that are not normally responsive to keyboard dynamics. (Refer to the “Preset Voice List” on page 53.)



The touch volume set in FIXED will become the common setting for all voices.

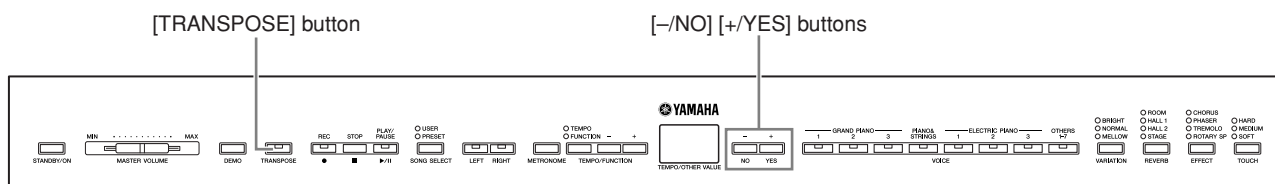


Releasing the [TOUCH] button changes the touch type. If you are changing the volume by holding the [TOUCH] button, releasing the [TOUCH] button will not change the touch sensitivity type. (FIXED will remain selected.)

ENGLISH

Transposition – [TRANSPOSE]

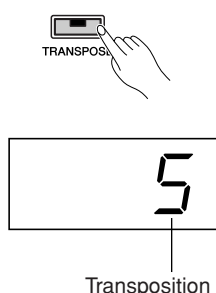
The P-140's Transpose function makes it possible to shift the pitch of the entire keyboard up or down in semitone intervals to facilitate playing in difficult key signatures, and to let you easily match the pitch of the keyboard to the range of a singer or other instruments. For example, if you set the transposition amount to "5," playing key C produces pitch F. In this way, you can play a song as though it were in C major, and the P-140 will transpose it to the key of F.



ENGLISH

Use the [-/NO] and [+ /YES] button while holding the [TRANSPOSE] button to transpose down or up as required. The amount of transposition appears on the display while the [TRANSPOSE] button is held. The default transposition setting is "0."

The [TRANSPOSE] button indicator remains lit when a transposition setting other than "0" is selected. Every time the [TRANSPOSE] button is pressed after that switches the transposition function ON or OFF.



TERMINOLOGY

Transpose:

Changing the key signature of a song. On the P-140, transposing shifts the pitch of the entire keyboard.



The transposition range:

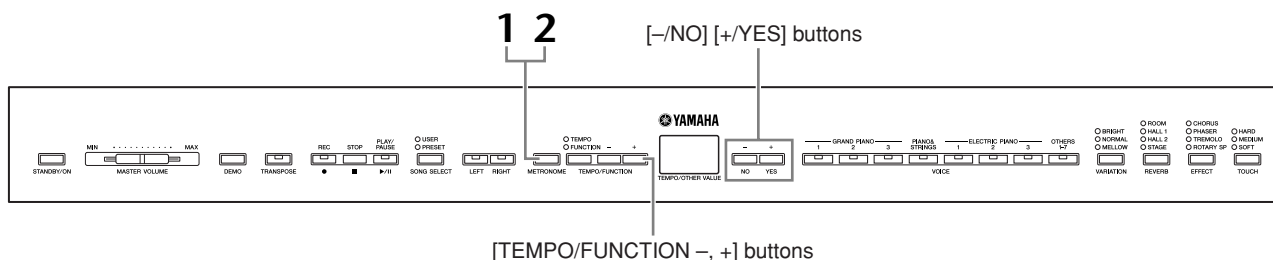
-12: -12 semitones (down one octave)

0: normal pitch

12: 12 semitones (up one octave)

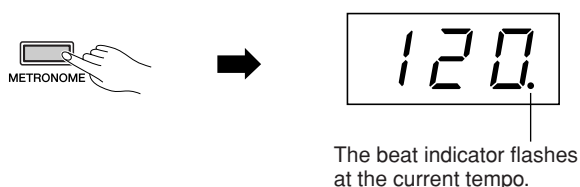
Using the Metronome

The P-140 features a built-in metronome for convenience in practicing and use with the Recording features.



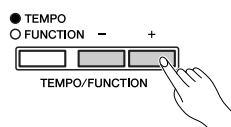
1. Press the [METRONOME] button to start the metronome.

The metronome sound is turned on.



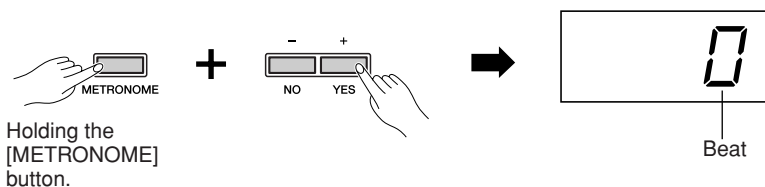
Adjusting the tempo

The tempo of the metronome and user song recorder playback (the recorder is described in the next section) can be set from 32 to 280 beats per minute by using the [TEMPO/FUNCTION -, +] buttons (when the [TEMPO/FUNCTION -, +] button's [TEMPO] indicator is lit).



Adjusting the time signature

The time signature (beat) of the metronome can be set by using the [-/NO] and [+ /YES] buttons while holding the [METRONOME] button. You can set the beat from 0 to 15. The current setting appears on the display while you are holding the [METRONOME] button.



2. Press the [METRONOME] button to stop the metronome.



If the [TEMPO/FUNCTION] button's [FUNCTION] indicator is lit, press the [TEMPO/FUNCTION] button to light the [TEMPO] indicator.



The volume of the metronome can be adjusted via the Metronome Volume function in Function (pages 37, 44).

Recording Your Performance

The ability to record and play back what you've played on the P-140 keyboard can be an effective practice aid. You can, for example, record just the left-hand part, and then practice the right-hand part while playing back the recorded left-hand part. Or, since you can record up to two parts separately, you could record the left- and right-hand parts separately, or record both parts of a duet and hear how they sound when played back. The two-part Song Recorder on the P-140 allows the recording of up to three User songs (U01-U03) to the instrument.

TERMINOLOGY

Recording vs. Saving:

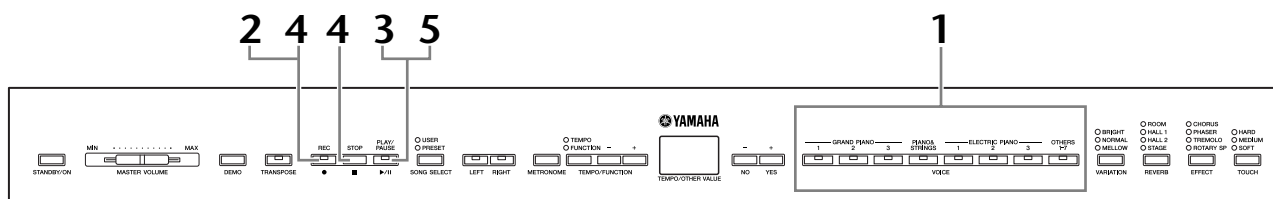
The format of performance data recorded on an MD differs from that of data recorded on the P-140. An MD records audio signals. The P-140 "saves" information regarding note timing, voices, and a tempo value, but not audio signals. When you play back recorded songs, the P-140 produces sound based on the saved information. Therefore, recording on the P-140 may be more accurately called "saving information." However, this book often uses the word "recording" because it seems to make more sense.



You can record your performance (audio data) to an MD recorder or other recording device via the AUX OUT jack (page 48).

Recording a performance quickly

This convenient and simple recording method lets you quickly record your performance without specifying the recording parts — useful, for example, in recording solo piano pieces. In this way, the performance is automatically recorded to right part.



CAUTION

To avoid erasing previously recorded song(s):
If the song contains data, the part indicator lights up green when you select a song.
Note that recording new data on this part will erase the existing data.

1. Select the voice you want to record (or voices if you will be using Dual or Split), before you begin to record.

Make any other desired settings (reverb, effect, etc.) as well. You might also want to set the volume.

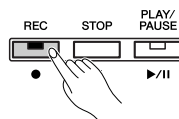
You can also adjust the playback volume using the [MASTER VOLUME] slider.



Record mode cannot be engaged during Demo Song playback.

2. Press the [REC] button to engage Record Ready mode.

This automatically selects an empty number (U01-U03) for recording and makes the RIGHT part active. If all song numbers contain recorded data, Song U01 will be selected. This simply enables recording; to start recording, go on to step 3.



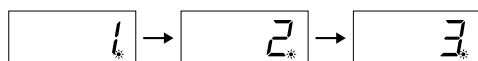
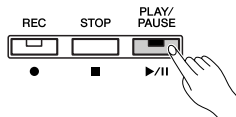
The amount of memory available for recording is shown on the display in approximate kilobytes. You can record up to a maximum of about 11,000 notes on the P-140 depending on pedal usage and other factors. The [PLAY/PAUSE] indicator will flash at the current METRONOME tempo setting.

You can turn on the metronome in this step, and adjust the tempo by using the [TEMPO/FUNCTION -, +] buttons. (Range: 32-280)

Record Ready mode can be disengaged before recording by pressing the [REC] button again.

3. Start recording.

Recording will begin automatically as soon as you play a note on the keyboard or press the [PLAY/PAUSE] button. The current measure's number will appear on the display while recording.

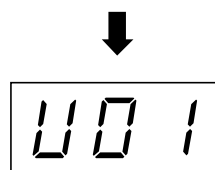
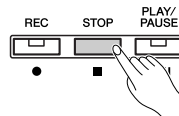


4. Press either [REC] or [STOP] button to stop recording.

When recording is stopped, dashes appear in the display in succession to indicate that the recorded data is being saved to the instrument automatically. After the data is saved, the song name (U01-U03) appears in the display. The recorded part's indicator will light in green to indicate that it now contains data. (Record mode is disengaged automatically.)

⚠ CAUTION

Never attempt to turn the [STANDBY/ON] switch OFF while flashing dashes appear in the display (these indicate data is being written to internal memory). Turning the power off in this state results in loss of all user data.



The song name (U01 to U03)

5. Play back the recorded performance.

Press the [PLAY/PAUSE] button to play back the recorded performance. To stop playback in the middle of a song, press the [STOP] button.



If you have selected the LEFT part previously in the same song, the LEFT part will automatically be made active when pressing the [REC] button in step 2.



If the metronome was on when you started recording, you'll be able to keep time with the metronome while recording, but the metronome sound will not be recorded.



For more recording information, see page 32.



The function of the [PLAY/PAUSE] button can be assigned to the AUX pedal (pages 37, 43). This allows you to start recording by pressing the Footswitch connected to the AUX jack.



Song recording can not be paused, even by pressing the [PLAY/PAUSE] button.



The record part indicator will begin to flash when the recorder memory is almost full. If the memory becomes full during recording, "Full!" will appear on the display and recording will stop automatically. (All recorded data up to that point will be retained.)



Pressing the [PLAY/PAUSE] button to start recording, then pressing the [STOP] button to stop recording will erase all previously recorded data on the selected part.

Re-recording a previously recorded song

If you are not satisfied with the recording, you can record it again. Using the following operation.

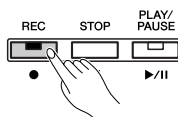
1. Select a voice or voices (and other settings) for recording, if necessary.

Repeat step 1 on page 28 if you wish to change the previous settings.

2. Press the [REC] button again to re-engage Record Ready mode.

The selected part's indicator lights in red.

Follow the procedure from step 3 in “Recording a performance quickly” on page 29 to re-record.



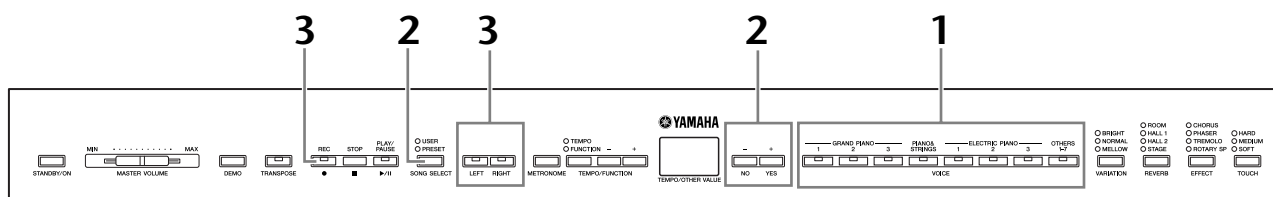
If you want to change the tempo, time signature, reverb type, or effect type when re-recording a part or when recording to another part, do so after engaging the Record Ready mode.



You cannot re-record in the middle of a song.

Recording to RIGHT/LEFT

This lets you record the right and left parts separately. Since you can record the left part while playing back the right, this is useful for independently recording both parts of a duet.



1. Make all the initial settings.

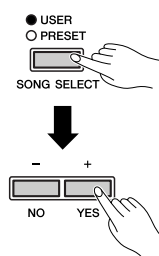
Same as step 1 in “Recording a performance quickly” on page 28.

2. Select a song to record.

Press the [SONG SELECT] button so that the “USER” indicator lights then press the [-/NO][+/YES] buttons to select a song for recording.

CAUTION

To avoid erasing previously recorded song(s): If the song contains data, the part indicator lights up green when you select a song. Note that recording new data on this part will erase the existing data.

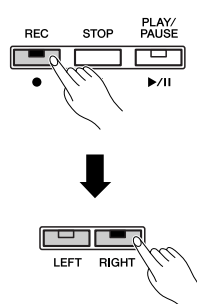


3. Engage the Record Ready mode.

Press the [REC] button and press the [RIGHT]/[LEFT] button to engage the Record Ready mode. Recording does not actually start yet.

The amount of memory available for recording will be shown on the display in approximate kilobytes. This value is expressed in kilobytes and indicates how much space remains available for recording on the P-140. You can record up to a maximum of about 11,000 notes on the P-140 depending on pedal usage and other factors. The [PLAY/PAUSE] indicator will flash at the current METRONOME tempo setting.

Record Ready mode can be disengaged before recording by pressing the [REC] button again.



4. Start and stop recording.

Same as steps 3-5 in “Recording a performance quickly” on page 29.



Part button indications

- Off:** Contains no data
- On (green):** Contains data
- On (red):** Part is enabled for recording



If the metronome was on when you started recording, you'll be able to keep time with the metronome while recording, but the metronome sound will not be recorded.



If you want to change the tempo, time signature, reverb type, or effect type when rerecording a part or when recording to another part, do so after entering the Record Ready mode.



If you don't want to hear the previously recorded part while you record (for example, when you want to record a song different from what you recorded on the previous part), press the play-back part button before pressing the [REC] button so that its indicator is turned off.



For more information on recording, see page 32.

The user song recorder records the following data:

Data in addition to the notes and voices you play is recorded.

This data includes “Individual Parts” and “Entire Song.” See below.

Individual Parts

- Notes played
- Voice selection
- Pedal (Sustain/Soft/Sostenuto/Expression)
- [REVERB] depth
- [EFFECT] depth
- Dual voices
- Dual balance (F3)
- Dual detune (F3)
- Dual octave shift (F3)
- Split voices (F4)
- Split balance (F4)
- Split octave shift (F4)

Entire Song

- Tempo
- Time signature (beat)
- [REVERB] type (including OFF)
- [EFFECT] type (including OFF)

Changing the Initial Settings (data recorded at the beginning of a song)

The initial settings (data recorded at the beginning of a song) can be changed after the recording. For example, after recording, you can change the voice to create a different ambience or adjust the song tempo to your taste.

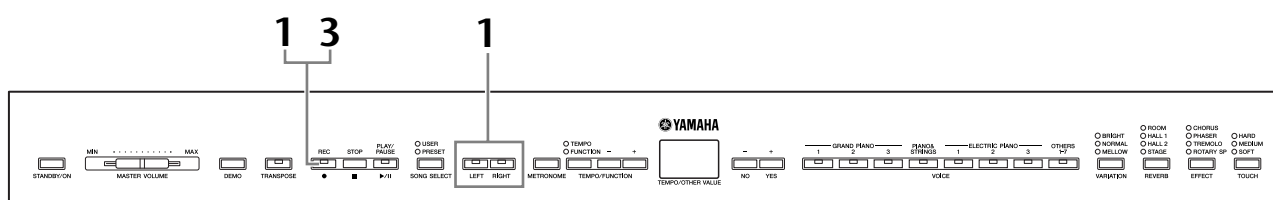
You can change the following initial settings.

Individual Parts

- Voice selection
- [REVERB] depth
- [EFFECT] depth
- Dual voices
- Split voices

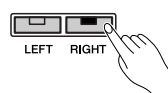
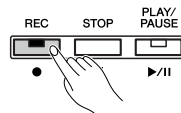
Entire Song

- Tempo
- [REVERB] type (including OFF)
- [EFFECT] type (including OFF)



1. Press the [REC] button to engage Record mode and select a part to change the initial settings.

The indicator lights in red. (Data shared by two parts can be changed via either part.)



2. Change the settings via the panel controls.

For example, if you wish to change the recorded voice from [ELECTRIC PIANO 1] to [ELECTRIC PIANO 2], press the [ELECTRIC PIANO 2] button. When you wish to change the sustain/soft pedal depth, press and hold the pedal.

3. Press the [REC] button to exit the Record mode.

CAUTION

Be careful not to press the [PLAY/PAUSE] button or a key on the keyboard after step 2 or 3, either of which will start recording and erase all previously-recorded data on the selected part.

NOTE

You can cancel changes made to the initial settings by selecting a different part after step 2, then exiting Record mode by pressing the [REC] button. (Changes made to the data shared by two parts are also canceled.)

Playing Back Songs

The following three types of songs are available.

- **50 Piano Preset Songs**

50 Piano Preset Songs in the instrument. (page 15)

- **User songs in the instrument**

User songs which you recorded to the instrument by using the record function (page 28).

- **External songs in the instrument**

Songs transferred from a computer (including commercially available songs and songs which have been edited on a computer). Songs can be transferred (saved) to the instrument by using the included Musicsoft Downloader software. The songs are saved to an area of the internal memory separate from the area for recorded User songs. Up to 255 songs can be played back on this instrument (numbers 001-255). You can download the Musicsoft Downloader (MSD). Please check the following URL for the latest version.

<http://music.yamaha.com/download/>

If the song cannot be transferred from a computer, you may need to rename the file.

Sequence formats that can be played on the P-140

- **SMF (Standard MIDI File) Formats 0 and 1**

The SMF format is one of the most common and widely compatible sequence formats used for storing sequence data. There are two variations: Format 0 and Format 1. A large number of MIDI devices are compatible with SMF Format 0, and most commercially available MIDI sequence data is provided in SMF Format 0. The SMF format for sequence files allows you to exchange song data between different sequencers.



You cannot select songs during Demo Song playback (page 14).



When playing back songs containing various voices or parts (such as XG or GM songs), the voices may not sound correct or as intended on the original. You may be able to remedy this and make the playback sound more natural or appropriate by changing the Song Channel Selection setting (page 43) to "1&2," so that only channels 1 and 2 will play back.



If the metronome is being used during playback, the metronome will automatically stop when playback is stopped.

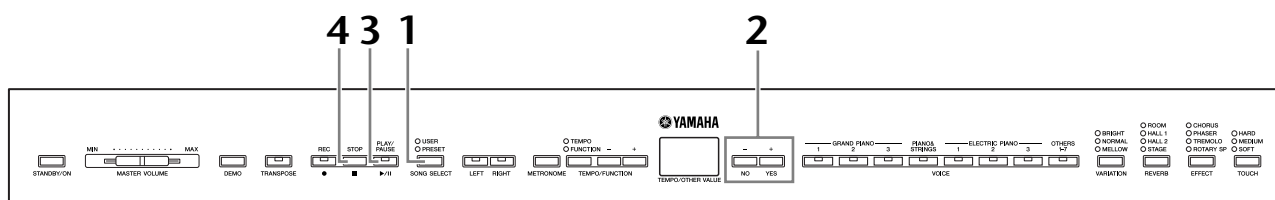


If the REVERB type is changed via the panel controls during playback, both the playback and keyboard reverb effects will be changed.



If the EFFECT type is changed via the panel controls during playback, the playback effect may be switched off in some cases.

Playing Back User Songs/External Songs on the P-140

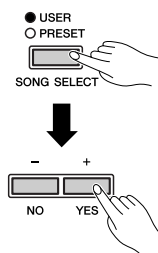


1. Press the [SONG SELECT] button (the USER indicator lights).

2. Press the [-/NO] [+ /YES] buttons to select a song.

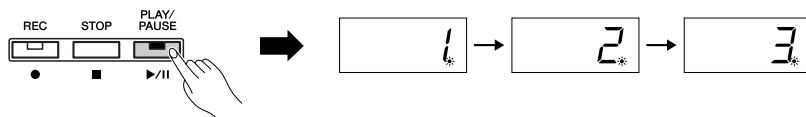
The User songs are displayed as "Uxx*" and External songs in the instrument are displayed as "xxx*."

* The "U" indication in the User song name means "User." The letters "xx" represent the song number.



3. Press the [PLAY/PAUSE] button to start playback.

The current measure number appears on the display during playback.



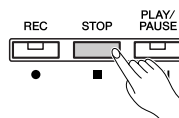
- You can play the keyboard while the P-140 is playing back a song. You can also play the notes with a voice different from the playback voice by selecting a voice from the panel.

Adjust the tempo

You can use the [TEMPO/FUNCTION -, +] buttons to adjust the playback tempo as required before or during playback. The default tempo (the song's original tempo) is set when you press the [-] and [+] buttons simultaneously.

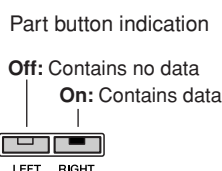
4. Press the [STOP] button or [PLAY/PAUSE] button to stop playback.

When playback is complete, the P-140 automatically stops and locates the top of the song. To stop playback in the middle of a song, press the [STOP] button. You can also pause playback by pressing the [PLAY/PAUSE] button.



Turning part playback on and off

When you select a song on the P-140, the indicators for parts that contain data (one of [RIGHT] [LEFT] or both) are lit in green. While the P-140 is playing or stopped, pressing these part buttons turns off the indicators, and the data on those parts is not played. Pressing the part buttons toggles part playback on and off.



User song playback cannot be started when the recorder contains no data.



You can also enjoy playing duets with yourself by recording one part of a duet or a song for two pianos, then playing the other part while the recorded part plays back.



If you have External songs in the instrument, you can use the repeat function.

RL L: Play all External songs in sequence.

rand: Play all External songs continuously in random order.



Parts can be turned on or off before or during playback.



You can adjust the volume of a part of a song for which playback is turned off (page 44).

Detailed Settings – [FUNCTION]

You can set various parameters to make the best use of P-140 functions, such as fine tuning the pitch or selecting a scale, etc.

The following parameters are available.

The P-140 has nine main functions.

Some of these main functions consist of a set of sub-functions.

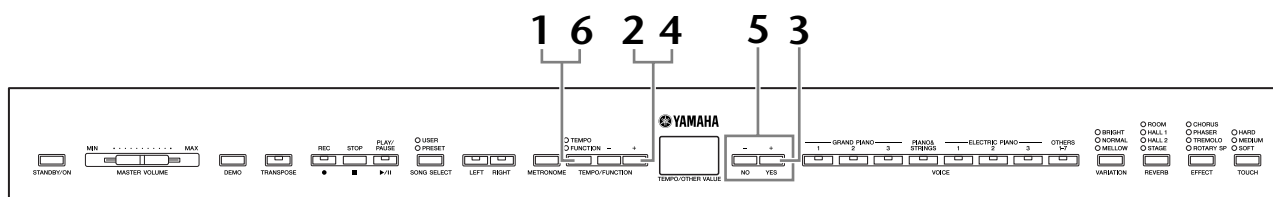
Functions List

Function	Sub-function	Display	Reference page
Fine tuning of the pitch	—	F1.	39
Selecting a scale	Scale	F2.1	40
	Base Note	F2.2	40
Dual functions	Dual Balance	F3.1	41
	Dual Detune	F3.2	41
	Voice 1 Octave Shift	F3.3	41
	Voice 2 Octave Shift	F3.4	41
	Voice 1 Effect Depth	F3.5	41
	Voice 2 Effect Depth	F3.6	41
	Reset	F3.7	41
Split functions	Split Point	F4.1	42
	Split Balance	F4.2	42
	Right Voice Selection	F4.3	42
	Left Voice Selection	F4.4	42
	Right Voice Octave Shift	F4.5	42
	Left Voice Octave Shift	F4.6	42
	Right Voice Effect Depth	F4.7	42
	Left Voice Effect Depth	F4.8	42
	Sustain Pedal Range	F4.9	42
	Reset	F4.A	42
Other Functions	AUX Pedal	F5.1	43
	Soft Pedal Effect Depth	F5.2	43
	Sustain Sample Depth	F5.3	43
	Keyoff Sample Volume	F5.4	43
	Song Channel Selection	F5.5	43
	Sustain Pedal Type	F5.6	43
	AUX Pedal Type	F5.7	43
Metronome volume	—	F6.	44
Song Part Cancel Volume	—	F7.	44
MIDI Functions	MIDI Transmit Channel Selection	F8.1	44
	MIDI Receive Channel Selection	F8.2	44
	Local Control ON/OFF	F8.3	44
	Program Change ON/OFF	F8.4	45
	Control Change ON/OFF	F8.5	45
	Panel/Status Transmit	F8.6	45
	Initial Setup Send	F8.7	45
Backup Functions	Voice	F9.1	46
	MIDI	F9.2	46
	Tuning	F9.3	46
	Others	F9.4	46

Basic Procedure in Function

Follow the steps below to use the functions.

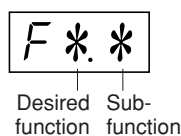
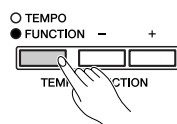
If you become lost while using a function, return to this page and read the basic procedure.



1. Press the [TEMPO/FUNCTION] button to enter the Function.

The [FUNCTION] indicator lights.

When you call up the FUNCTION display after turning the power on, **F 1** appears on the display. When you call up the FUNCTION display again (without turning the power off), the previous selected **F * *** appears on the display.



Functions cannot be selected during Demo/Song Select or when the user song recorder is in operation.

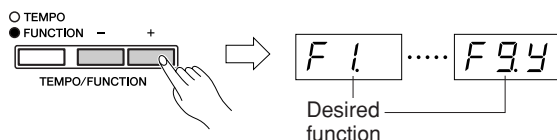


To cancel the function in step 2, 3, or 4, press the [TEMPO/FUNCTION -, +] button any time to exit Function.

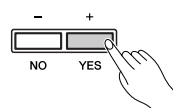
2. Use the [TEMPO/FUNCTION -, +] buttons to select the desired function from F1–F9.

When **F * *** (that include the sub-functions) is selected, go on to step 3.

When F1, F6 or F7 is selected (these have no sub-functions), go on to step 5.

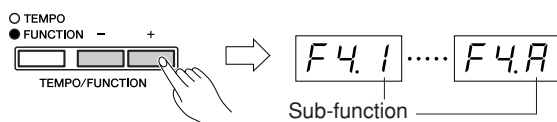


3. Press the [+ / YES] button to enter the sub-function.



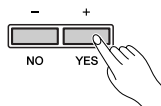
4. Use the [TEMPO/FUNCTION -, +] buttons to select the desired sub-function.

In the example below, the sub-functions of F4 (Split) are shown.



5. Use the [-/NO] and [+ /YES] buttons to change the ON/OFF setting, select the type, or change the value.

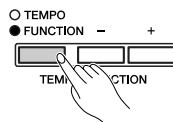
The default setting (which is used when you first turn on the power to the P-140) is recalled by pressing the [-/NO] and [+ /YES] buttons simultaneously.



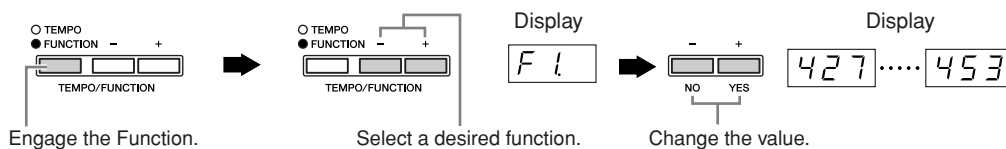
After you select the function, the current setting will be displayed when the [-/NO] or [+ /YES] button is pressed for the first time.

6. Press the [TEMPO/FUNCTION] to exit the Function.

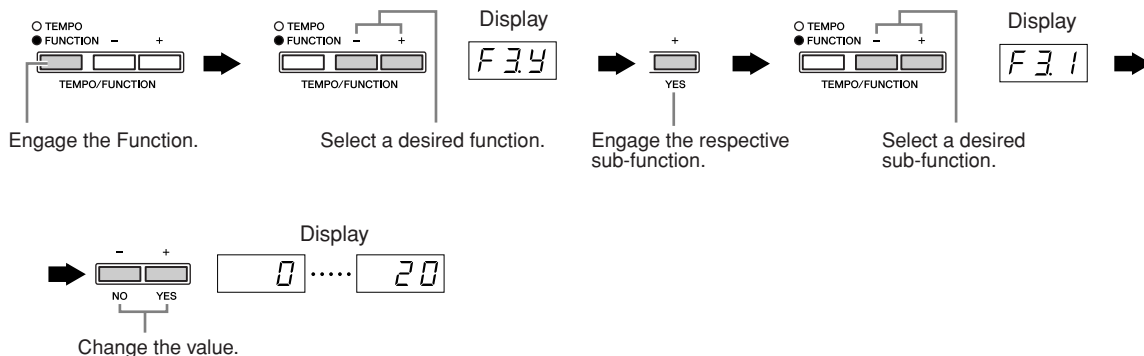
The [TEMPO] indicator lights.



Operation Example 1 (F1. Fine tuning of the pitch)



Operation Example 2 (F3.1 "Dual Balance")



About Each Function

The explanations here apply when entering the Function in step **5** on page 38.

F1. Fine Tuning of the Pitch

You can fine tune the pitch of the entire instrument. This function is useful when you play the P-140 along with other instruments or CD music.

Use the [-/NO] and [+ /YES] buttons to lower or raise the pitch of the A3 key in approximately 0.2 Hz increments.

427.....440.....453

Tenths of a hertz are indicated on the display by the appearance and position of one or two dots, as in the following example:

Display	Value
440	440.0
440.	440.2
440.	440.4
440.	440.6
440.	440.8

Setting range:
427.0–453.0 (Hz)

Default setting:
440.0 (Hz)

TERMINOLOGY

Hz (Hertz):

This unit of measurement refers to the frequency of a sound and represents the number of times a sound wave vibrates in a second.

Using the keyboard to set the pitch

You can fine tune the pitch by pressing a key on the keyboard, without having to call up the FUNCTION display.

To tune up (in roughly 0.2Hz steps): Hold the A-1 and B-1 keys (two white keys at the left end) simultaneously and press any key between C3 and B3.

To tune down (in roughly 0.2Hz steps): Hold the A-1 and A#-1 keys (a white and a black key at the left end) simultaneously and press any key between C3 and B3.

To restore standard pitch: Hold the A-1, A#-1 and B-1 keys (two white keys and one black key at the left end) simultaneously and press any key between C3 and B3.

- Each key has a note name; for example, the lowest (farthest left) key on the keyboard corresponds to A-1, and the highest (farthest right) key to C7.

During the procedure described above, the display indicates a value in Hz (427...453). After the procedure, the display returns to the previous indication.

To tune down or up, respectively, in approximately 1 Hz increments: Hold the A-1 and A#-1 keys (a white and a black key at the left end) or A-1 and B-1 keys (two white keys at the left end) simultaneously and press the [-/NO] or [+ /YES] button.

To restore standard pitch: Hold the A-1 and A#-1 keys (a white and a black key at the left end) or A-1 and B-1 keys (two white keys at the left end) simultaneously and press the [-/NO] [+ /YES] buttons simultaneously.

During the procedure described above, the display indicates a value in Hz (427...453). After the procedure, the display returns to the previous indication.

F2. Selecting a Scale

You can select various scales.

Equal Temperament is the most common contemporary piano tuning scale. However, history has known numerous other scales, many of which serve as the basis for certain genres of music. You can experience these tunings with the P-140.

F2.1 Scale

Setting range:

- 1: Equal Temperament
- 2: Pure Major
- 3: Pure Minor
- 4: Pythagorean
- 5: Mean Tone
- 6: Werckmeister
- 7: Kirnberger

Default setting: 1: Equal Temperament

EQUAL TEMPERAMENT

The pitch range of each octave is divided equally into twelve parts, with each half-step evenly spaced in pitch. This is the most commonly used tuning in music today.

PURE MAJOR/PURE MINOR

These tunings preserve the pure mathematical intervals of each scale, especially for triad chords (root, third, fifth). You can hear this best in actual vocal harmonies - such as choirs and a cappella singing.

PYTHAGOREAN

This scale was devised by the famous Greek philosopher and is created from a series of perfect fifths, which are collapsed into a single octave. The 3rd in this tuning are slightly unstable, but the 4th and 5th are beautiful and suitable for some leads.

MEAN-TONE

This scale was created as an improvement on the Pythagorean scale, by making the major third interval more "in tune." It was especially popular from the 16th century to the 18th century. Handel, among others, used this scale.

WERCKMEISTER/KIRNBERGER

This composite scale combines the Werckmeister and Kirnberger systems, which were themselves improvements on the mean-tone and Pythagorean scales. The main feature of this scale is that each key has its own unique character. The scale was used extensively during the time of Bach and Beethoven, and even now it is often used when performing period music on the harpsichord.

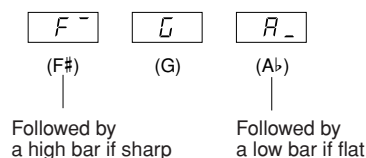
F2.2 Base Note

If you select a scale other than Equal Temperament, you need to specify the root. (You can also specify the root note with Equal Temperament selected, but it will have no effect. The base note setting is effective for tunings other than the Equal Temperament tuning.)

Setting range: C, C#, D, Eb, E, F, F#, G, Ab, A, Bb, B

Default setting: C

- Root indication example



F3. Dual Functions

You can set various parameters for Dual (page 20) to optimize the settings for the songs you play, such as adjusting the volume balance between two voices.

Dual function settings are set individually for each voice combination.

If Dual is not engaged, **F3-** will appear instead of **F34** and you will be unable to select the Dual functions. If this happens, press two voice buttons at the same time to engage Dual.

F31 Dual Balance

Setting range: 0 – 20 (A setting of “10” produces an equal balance between the two Dual voices. Settings below “10” increase the volume of Voice 2 in relation to Voice 1, and settings above “10” increase the volume of Voice 1 in relation to Voice 2.)

Default setting: Different for each voice combination.

You can set one voice as the main voice, and another voice as a softer, mixed voice.

F32 Dual Detune

Setting range: -10 – 0 – 10 (With positive values, the pitch of Voice 1 is raised and the pitch of Voice 2 is lowered. With negative values, the pitch of Voice 1 is lowered and the pitch of Voice 2 is raised.)



The available setting range is wider in the lower range (± 60 cents for A-1), and narrower in the higher range (± 5 cents for C7). (100 cents equal one semitone.)

Default setting: Different for each voice combination.

Detune Voice 1 and Voice 2 for Dual to create a thicker sound.

F33 Voice 1 Octave Shift

F34 Voice 2 Octave Shift

Setting range: -1, 0, 1

Default setting: Different for each voice combination.

You can shift the pitch up and down in octave steps for Voice 1 and Voice 2 independently. Depending on which voices you combine in Dual, the combination may sound better if one of the voices is shifted up or down an octave.

F35 Voice 1 Effect Depth

F36 Voice 2 Effect Depth

Setting range: 0 – 20

Default setting: Different for each voice combination.

These functions make it possible to individually set the depth of the effect for Voices 1 and 2 for Dual. (The effect depth settings cannot be changed unless the [EFFECT] is ON. Function must be exited before the [EFFECT] can be turned ON.)

- “Voice 1” and “Voice 2” are explained on page 20.

F37 Reset

This function resets all Dual functions to their default values. Press the [+ / YES] button to reset the values.



SHORTCUT:

You can jump directly to the Dual functions **F3*** by pressing the [TEMPO/FUNCTION] button while holding the two Dual voice buttons.

F4. Split Functions

This menu enables you to make various detailed settings for Split.

By selecting the right/left voices, changing the split point or other setting, you can optimize the settings for the songs you play.

Be sure to select the Split by pressing the [OTHERS] button before engaging Function.

If Split is not engaged, [F4-] will appear instead of [F4] and you will be unable to select the Split functions. Also note that you must exit Function before you can engage Split.

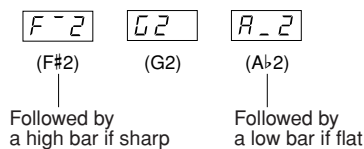
[F41] Split Point

Setting range: The entire keyboard

Default setting: F#2

Set the point on the keyboard that separates the right and left-hand sections (split point). The pressed key is included in the left-hand range.

- Instead of pressing the [-/NO] [+ /YES] buttons, you can engage the split point by pressing the appropriate key on the keyboard.
- Example key name indications for Split Point:



[F42] Split Balance

Setting range: 0 – 20 (A setting of “10” produces an equal balance between the two Split voices. Settings below “10” increase the volume of the left voice in relation to the right voice, and settings above “10” increase the volume of the right voice in relation to the left voice.)

Default setting: Different for each voice combination.

The volume level of the two voices combined in Split can be adjusted as required. You can make this setting for each combination of voices individually.

[F43] Right Voice Selection

Setting range: 1 – 13

Default setting: 1

Set the right voice.

You can select the voices from 1 to 13. Refer to “Preset Voice List” on page 53.

[F44] Left Voice Selection

Setting range: 1 – 4

Default setting: 1

Set the left voice.

You can select the voices from 1 to 4. Refer to “Preset Voice List” on page 53.

[F45] Right Voice Octave Shift

[F46] Left Voice Octave Shift

Setting range: –1, 0, 1

Default setting: Different for each voice combination

You can shift the pitch up and down in octave steps for the Right Voice and Left Voice independently. Make a setting depending on the note range of the songs you play. You can make this setting for each combination of voices individually.

[F47] Right Voice Effect Depth

[F48] Left Voice Effect Depth

Setting range: 0 – 20

Default setting: Different for each voice combination

These functions make it possible to individually set the depth of the effect for the left and right Split voices.

The effect depth settings cannot be changed unless the [EFFECT] is ON. You must exit Function before you can turn on an [EFFECT].

You can make this setting for each combination of voices individually.

[F49] Sustain Pedal Range

Setting range: ALL (for both voices)

1 (for the right Voice)

2 (for the left Voice)

Default setting: ALL

The Sustain Pedal Range function determines whether the sustain pedal affects the right voice, the left voice, or both the left and right voices in Split.

[F4R] Reset

This function resets all Split functions to their default values. Press the [+ /YES] button to reset the values.

F5. Other Functions

This section provides a variety of other functions, including letting you assign the operation of the AUX pedal to one of several settings, and allowing you to select specific song channels for playback.

F5.1 AUX Pedal

Setting range:

1. Soft Pedal

The soft pedal reduces the volume and slightly changes the timbre of notes played while the pedal is pressed. The soft pedal will not affect notes that are already playing.

2. Sostenuato pedal

If you play a note or chord on the keyboard and press the pedal while the note(s) are held, those notes will be sustained for as long as the pedal is held (as if the sustain pedal had been pressed) but all notes played thereafter will not be sustained. This makes it possible to sustain a chord, for example, while other notes are played “staccato.”



Organ, string and choir voices will continue to sound for as long as the sostenuto pedal is depressed.

3. Expression

This setting allows control of dynamics during performance.

4. Song Play/Pause

This setting allows you to start or pause song playback. In this setting, the AUX Pedal functions in the same manner as the [PLAY/PAUSE] button on the panel.

Default setting: 1(Soft Pedal)

F5.2 Soft Pedal Effect Depth

Setting range: 1 – 5

Default setting: 3

This function sets the depth of the soft pedal effect.

F5.3 Sustain Sample Depth

Setting range: 0 – 20

Default setting: 12

The **GRAND PIANO 1, 3** voice features special “Sustain Samples” that recreate the unique resonance of an acoustic grand piano’s soundboard and strings when the sustain pedal is pressed. This function lets you adjust the depth of this effect.

F5.4 Keyoff Sample Volume

Setting range: 0 – 20

Default setting: 10

You can adjust the volume of the keyoff sound (the subtle sound produced when the keys are released) for voices [GRAND PIANO1, 3], [HARPSICHORD], [E.CLAVICHORD].

F5.5 Song Channel Selection

Setting range: ALL, 1&2

Default setting: ALL

The setting here only affects External songs. You can specify which song channels will play back on this instrument. When “ALL” is selected, channels 1-16 will be played back. When “1&2” is selected, only channels 1 and 2 will be played back, while channels 3-16 will be transmitted via MIDI.

F5.6 SUSTAIN PEDAL Type

F5.7 AUX PEDAL Type

Setting range: 1, 2

Default setting: 1

Depending upon the pedal that is connected to the SUSTAIN PEDAL jack or AUX PEDAL jack, the effect produced by operating the pedal (ON/OFF, dynamics, etc.) might be reversed.

If this happens, you can use this setting to correct the pedal operation. The setting range is from 1 to 2.

Press the [–/NO] and [+ /YES] buttons simultaneously to recall the default setting of “1.”



- Make sure that the power is switched OFF when connecting or disconnecting the pedal.
- If the SUSTAIN PEDAL type is set to “2”, disconnecting the sustain pedal while the power is switched on may leave the sustain active, causing notes to sustain indefinitely. In this case, switch the power off, then back on.

F6. Metronome Volume

Use this function to adjust the metronome volume.

Setting range: 1 – 20

Default setting: 10



SHORTCUT:

You can jump directly to the metronome functions **F6** by pressing the **[TEMPO/FUNCTION]** button while holding the **[METRONOME]** button.

F7. Song Part Cancel Volume

This function sets the volume at which a “canceled” part is played during song playback. Adjust the part volume to a comfortable level and use the “canceled” part as a guide with which to play along.

Setting range: 0 – 20

Default setting: 5



This function cannot be used for Demo songs.

F8. MIDI Functions

You can make detailed adjustments to the MIDI settings.

For more information about MIDI, see the “About MIDI” section (page 47).

F8.1 MIDI Transmit Channel Selection

In any MIDI control setup, the MIDI channels of the transmitting and receiving devices must be matched for proper data transfer.

This parameter enables you to specify the channel on which the P-140 transmits MIDI data.

Setting range: 1 – 16, OFF (not transmitted)

Default setting: 1



- In Dual, Voice 1 data is transmitted on its specified channel. In Split, right voice data is transmitted on its specified channel. In Dual, Voice 2 data is transmitted on the next greater channel number relative to the specified channel. In Split, left voice data is transmitted on the next greater channel number relative to the specified channel. In either case, no data is transmitted if the transmit channel is set to “OFF.”
- Song data is not transmitted via the MIDI connections. However, channels 3-16 of External songs will be transmitted via the MIDI connections depending on the Song Channel Selection setting (page 43).

F8.2 MIDI Receive Channel Selection

In any MIDI control setup, the MIDI channels of the transmitting and receiving devices must be matched for proper data transfer. This parameter enables you to specify the channel on which the P-140 receives MIDI data.

Setting range: ALL, 1&2, 1 – 16

Default setting: ALL



- **ALL:**
“Multi-timbre” Receive. This allows simultaneous reception of different parts on all 16 MIDI channels, enabling the P-140 to play multi-channel song data received from a music computer or sequencer.
- **1&2:**
“1&2” Receive. This allows simultaneous reception on channels 1 and 2 only, enabling the P-140 to play 1 and 2 channel song data received from a music computer or sequencer.
- Program change and other like channel messages received will not affect the P-140’s panel settings or the notes you play on the keyboard.

F8.3 Local Control ON/OFF

“Local Control” refers to the fact that, normally, the P-140 keyboard controls its internal tone generator, allowing the internal voices to be played directly from the keyboard. This situation is “Local Control On,” since the internal tone generator is controlled locally by its own keyboard.

Local control can be turned OFF, however, so that the P-140 keyboard does not play the internal voices, but the appropriate MIDI information is still transmitted via the MIDI OUT terminal when notes are played on the keyboard. At the same time, the internal tone generator responds to MIDI information received via the MIDI IN terminal.

Setting range: ON/OFF

Default setting: ON

F B 4 Program Change ON/OFF

Normally the P-140 will respond to MIDI program change numbers received from an external keyboard or other MIDI device, causing the correspondingly numbered voice to be selected on the corresponding channel (the keyboard voice does not change). The P-140 will normally also send a MIDI program change number whenever one of its voices is selected, causing the correspondingly numbered voice or program to be selected on the external MIDI device if the device is set up to receive and respond to MIDI program change numbers. This function makes it possible to cancel program change number reception and transmission so that voices can be selected on the P-140 without affecting the external MIDI device.



For information on program change numbers for each of the P-140's voices, refer to MIDI Data Format page 60.

Setting range: ON/OFF

Default setting: ON

F B 5 Control Change ON/OFF

Normally the P-140 will respond to MIDI control change data received from an external MIDI device or keyboard, causing the voice on the corresponding channel to be affected by pedal and other “control” settings received from the controlling device (the keyboard voice is not affected).

The P-140 also transmits MIDI control change information when the pedal or other appropriate controls are operated.

This function makes it possible to cancel control change data reception and transmission so that, for example, the P-140's pedal and other controls can be operated without affecting an external MIDI device.



For information on control changes that can be used with the P-140, refer to MIDI Data Format on page 60.

Setting range: ON/OFF

Default setting: ON

F B 6 Panel/Status Transmit

This function causes all the current P-140 panel settings (selected voice, etc.) to be transmitted via the MIDI OUT terminal.

1. Set up the panel controls as desired.
2. Connect the P-140 to a sequencer via MIDI, and set up the sequencer so it can receive the setup data.
3. Engage the Function and select **F B 6**.
4. Press the **[+/YES]** button to transmit the panel/status data.

[End] will appear on the display when the data has been successfully transmitted.



- See page 61 for a list of the Panel Data Contents transmitted by this function.
- **Receiving the transmitted data:**
 1. Connect the P-140 via MIDI to the device to which the setup data was transmitted previously.
 2. Start sending the setup data from the device. The P-140 automatically receives the setup data, which will be reflected in the panel settings. (For the data to be accepted, the P-140 that receives the setup data should be the same model as the one that transmitted the setup data to the sequencer.)
- For more information on transmitting and receiving setup data via MIDI, refer to the owner's manual for the connected MIDI device.

F B 7 Initial Setup Send

This function lets you send the data of the panel settings to a computer. By transmitting the panel settings and recording them on the MIDI sequence recorder prior to the actual performance data, the instrument will be automatically restored to the same settings when the performance is played back. You can also use this function to change the settings of a connected tone generator to the same settings as the instrument.

1. Set up the panel controls as desired.
2. Connect the P-140 to a sequencer via MIDI, and set up the sequencer so it can receive the setup data.
3. Engage the Function and select **F B 7**.
4. Press the **[+/YES]** button to transmit the panel/status data.

[End] will appear on the display when the data has been successfully transmitted.

The following data can be sent.

- Voice selection
- [REVERB] type
- [REVERB] depth
- [EFFECT] type
- [EFFECT] depth
- Split point
- Tuning (F1)
- Dual detune (F3.2)

F9. Backup Functions

You can back up some settings, such as voice selection and reverb type, so that they will not be lost when you turn off the power to the P-140. If the backup function is turned on, the settings at power off are effective. If the backup function is turned off, the settings in memory are erased when you turn off the power. In this case, when you turn on the power to the unit, the default settings (the initial settings) will be used. (The factory setting default list is found on page 59.)

However, the backup settings themselves, the contents of the user song recorder memory, and character code setting are always backed up. Refer to “Data Backup Using a Computer” on page 50.

You can turn the backup function on or off for each function group. Different Backup Groups are provided for the different function categories of the instrument: Voice, MIDI, Tuning and Others.

F9.1 Voice

Setting range: ON/OFF

Default setting: OFF

- Voice (Keyboard, Dual, and Split)
- Dual (ON/OFF, Voice, and Dual Functions for each voice combination)
- Split (ON/OFF, Voice, and Split Functions for each voice combination)
- Reverb (ON/OFF, Type, and Depth for each voice)
- Effect (ON/OFF, Type, and Depth for each voice)
- Touch Sensitivity (including the FIXED volume)
- Metronome Beat, Volume ([F5] settings)
- Song Part Cancel Volume ([F7] settings)

F9.2 MIDI

Setting range: ON/OFF

Default setting: ON

The MIDI functions ([FB*] settings)

(expect for [FB5] [FB7])

F9.3 Tuning

Setting range: ON/OFF

Default setting: ON

- Transpose
- Tuning ([Fl] settings)
- Scale (including base note) ([F2*] settings)

F9.4 Others

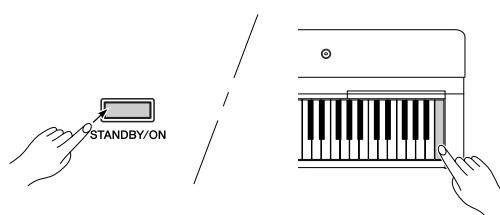
Setting range: ON/OFF

Default setting: ON

- Other functions ([F5*] settings)
- VARIATION setting

Factory Preset Recall

All settings affected by the Functions (F1 – F9) can be restored to their original factory preset values by turning the [STANDBY/ON] switch ON while holding the C7 key (right-most-key on the keyboard). This operation also erases all user song data. The factory preset values are listed on page 59.



⚠ CAUTION

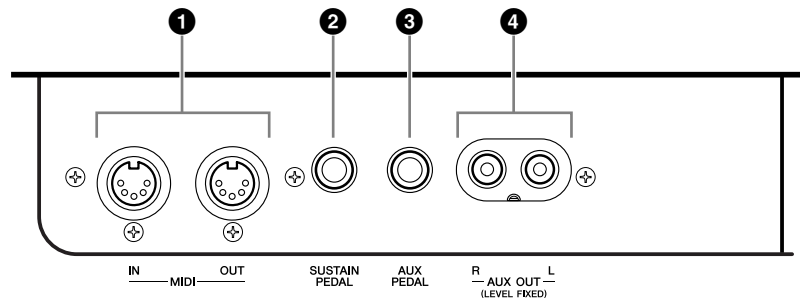
After turning the [STANDBY/ON] switch ON while holding the C7 key (right-most-key on the keyboard), “E L r” appears in the display. Never attempt to turn off the power while “E L r” appears in the display. Turning the power off in this state may cause the system to freeze.

Connections

Connectors

⚠ CAUTION

Before connecting the P-140 to other electronic components, turn off the power to all the components. Before turning the power on or off to all components, set all volume levels to minimum (0). Otherwise, electrical shock or damage to the components may result.



1 MIDI [IN] [OUT] terminals

Use MIDI cables to connect external MIDI devices to these connectors.

MIDI [IN]: Receives MIDI data.

MIDI [OUT]: Transmits MIDI data.

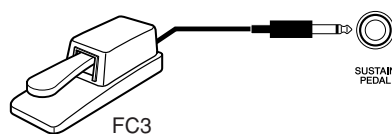
Refer to the “Connecting a Personal Computer” on page 49.

About MIDI

MIDI (Musical Instrument Digital Interface) is a standard format for data transmission/reception. It enables the transfer of performance data and commands between MIDI devices and personal computers. Using MIDI, you can control a connected MIDI device from the P-140, or control the P-140 from a connected MIDI device or computer.

2 SUSTAIN PEDAL Jack

This jack is for connecting an included foot pedal FC3 here.



⚠ CAUTION

Make sure that power is OFF when connecting or disconnecting the pedal. Do not turn on the power to the unit while pressing the foot switch or foot pedal. Otherwise, the switch or pedal type (on/off) will be reversed.

NOTE

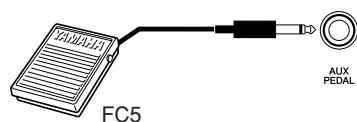
Since MIDI data that can be transmitted or received varies depending on the type of MIDI device, check the “MIDI Implementation Chart” to find out what MIDI data and commands your devices can transmit or receive. The P-140’s MIDI Implementation Chart appears on page 64.

NOTE

Depending upon the pedal that is connected to the SUSTAIN PEDAL jack, the effect produced by operating the pedal (ON/OFF, dynamics, etc.) might be reversed. If this happens, refer to the “SUSTAIN PEDAL Type” section (page 43).

3 AUX PEDAL Jack

This jack is for connecting an optional FC4/FC5 foot switch or FC7 foot controller. A wide range of functions such as the Soft Pedal function, etc. can be assigned to this jack. Use the Function settings to assign the function. (page 43)

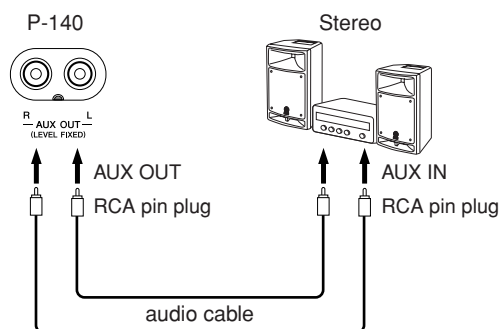


4 AUX OUT [R] [L] Pin jacks (LEVEL FIXED)

You can connect these jacks to a stereo system to amplify the P-140 or to a cassette tape recorder to record your performance. Refer to the diagram below and use audio cables to make the connections.

⚠ CAUTION

When the P-140's AUX OUT jacks are connected to an external audio system, first turn on the power to the P-140, then to the external audio system. Reverse this order when you turn the power off.



When these are connected (with RCA pin plug; LEVEL FIXED), the sound is output to the external device at a fixed level, regardless of the [MASTER VOLUME] slider setting.

NOTE

Depending upon the pedal that is connected to the AUX PEDAL jack, the effect produced by operating the pedal (ON/OFF, dynamics, etc.) might be reversed. If this happens, refer to the "AUX PEDAL Type" section (page 43).

NOTE

Use audio cables and adaptor plugs with zero resistance.

NOTE

The P-140's [MASTER VOLUME] slider setting does not affect the signal output from the AUX OUT (LEVEL FIXED) jacks.

Connecting a Personal Computer

By connecting a computer to the USB [TO HOST] or MIDI terminals, you can transfer data between the instrument and the computer via MIDI. To do this, install the USB interface (such as the UX16, UX96, or UX256) driver and Musicsoft Downloader software.

There are two ways you can connect the P-140 to a computer:

1. Connecting the USB port on the computer to the P-140 via a USB interface.
2. Using a MIDI interface and the P-140's MIDI terminals.

For more information, see below.

! CAUTION

When connecting the P-140 to a computer, first turn off the power to both the P-140 and the computer before connecting any cables. After making connections, turn on the power to the computer first, then to the P-140.



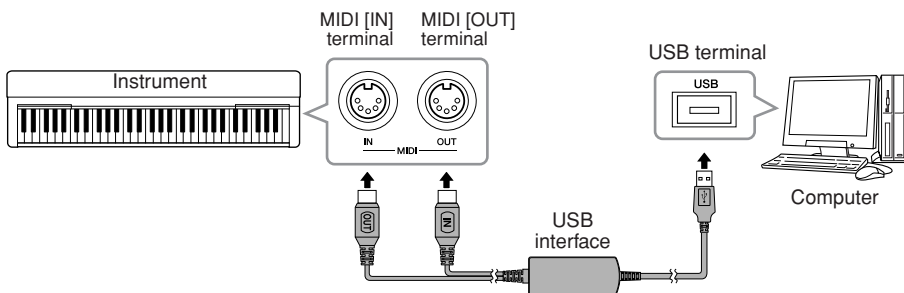
You can download the USB interface driver and Musicsoft Downloader (MSD). Please check the following URL for the latest version.

<http://music.yamaha.com/download/>

ENGLISH

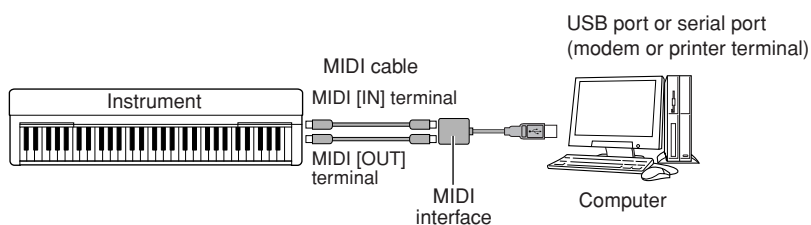
Connecting the USB port on the computer to the P-140 via a USB interface (such as the UX16, UX96, or UX256)

Use a USB interface device to connect the USB port on your computer to the P-140's MIDI terminals.



Using a MIDI interface and the P-140's MIDI terminals

Use a MIDI interface device to connect a computer to the P-140 using MIDI cables.



Data Backup Using a Computer

For maximum data security Yamaha recommends that you save your important data to your computer by using the Musicsoft Downloader (MSD) software. This provides a convenient backup if the internal memory is damaged.

Data that can be saved

● Panel settings and recorded User songs

Panel settings are the same data that can be backed up using the Backup Functions (page 46). You can save the panel settings and recorded User songs as one file.

● External songs received via computer.

1. Install the USB MIDI driver and MSD to your computer (Windows), then connect the computer and the instrument.

For connection, see page 49.

2. Save the data to the computer.

Using MSD, save the “P-140.BUP” file from “System Drive” under “Electronic Musical Instruments” to the computer.

The “P-140.BUP” file contains the panel settings and recorded User songs. Also, if you store the external songs in the instrument from the computer, save the songs from “Flash Memory” under “Electronic Musical Instruments” to the computer via the MSD.

For instructions on using MSD, see the Help in the MSD.

To recall the settings and load songs to the instrument, save the “P-140.BUP” file and the External songs under the folders to which you saved the files.



You can download the USB interface driver and Musicsoft Downloader (MSD). Please check the following URL for the latest version.

<http://music.yamaha.com/download/>



When MSD is started on a computer connected to the instrument, “COM” (computer connection) appears in the display. When this indication appears, you cannot operate the instrument.



The Musicsoft Downloader cannot be used when the instrument is in the following state:

- During Demo playback.
- During song playback.
- During Record mode.



The panel settings and User songs (P-140.BUP file) remain in the instrument after being saved to the computer.

Message List

Message	Comment
<i>CLR*</i>	Displayed after factory presets are recalled.
<i>con</i>	Displayed when Musicsoft Downloader is started on a computer connected to the instrument. When this message appears, you cannot operate the instrument.
<i>EO2</i>	Displayed when the song data is damaged.
<i>EO4</i>	Indicates that the song data is too large to be loaded.
<i>End</i>	Displayed when the current operation is completed.
<i>Err</i>	Displayed when the MIDI/USB cable is disconnected while starting Musicsoft Downloader on a computer connected to the instrument.
<i>FCL*</i>	Indicates that internal memory has been cleaned. Recorded songs and external songs which have been loaded from a computer are deleted, because the power has been turned off before the song save or load operations were completed.
<i>Full</i>	Displayed when internal memory becomes full during song recording.
<i>o y</i>	Confirms whether each operation is executed or not.

CAUTION

Never attempt to turn off the power while “CLR” or “FCL” appears in the display. Turning the power off in this state may cause the system to freeze.

Troubleshooting

Problem	Possible Cause and Solution
The P-140 does not turn on.	The P-140 has not been plugged in properly. Securely insert the female plug into the socket on the P-140, and the male plug into a proper AC outlet (page 12).
A click or pop is heard when the power is turned on or off.	This is normal when electrical current is being applied to the instrument.
Noise is heard from the speakers or headphones.	The noise may be due to interference caused by the use of a mobile phone in close proximity to the P-140. Turn off the mobile phone, or use it further away from the P-140.
The overall volume is low, or no sound is heard.	<ul style="list-style-type: none"> • The Master Volume is set too low; set it to an appropriate level using the [MASTER VOLUME] control. • Make sure a pair of headphones is not connected to the headphones jack (page 13). • Make sure that Local Control (page 44) is ON.
The sustain pedal has no effect.	The pedal cable/plug may not be properly connected. Make sure to securely insert the pedal plug into the proper jack (page 47).
The foot pedal seems to produce the opposite effect. For example, pressing the foot pedal cuts off the sound and releasing it sustains the sounds.	The type of the foot pedal is reversed. If this happens, use F5.6 or F5.7 to correct the pedal type (pages 37, 43).
If you press the [VARIATION] button during performance, Sound is cut off.	This is normal, and is no cause for concern.

Optional Equipment

Foot Pedal (FC3/FC4/FC5/FC7)

Keyboard Stand (L-140/L-140S)

Preset Voice List

○: Yes
—: No

Voice Name		Stereo Sampling	Touch Response	Dynamic Sampling ^{*1}	Key-Off Sampling ^{*2}	Voice Descriptions
1	GRAND PIANO 1	○	○	○	○	Recorded samples from a full concert grand piano. Also includes three levels of dynamic sampling, sustain samples, and key-off samples for exceptionally realistic acoustic grand piano sound. Perfect for classical compositions as well as any other style that requires acoustic piano.
2	GRAND PIANO 2	○	○	—	—	Spacious and clear piano with bright reverb. Good for popular music.
3	GRAND PIANO 3	○	○	○	○	Warm and mellow piano. Good for classical compositions.
4	PIANO & STRINGS	○	○	○	—	A Dual voice combining grand piano and strings – perfect for slow, orchestral piano music.
5	ELECTRIC PIANO 1	—	○	○	—	An electronic piano sound created by FM synthesis. Exceptional musical response with varying timbre according to keyboard dynamics. Good for standard popular music.
6	ELECTRIC PIANO 2	—	○	○	—	The sound of an electric piano using hammer-struck metallic tines. Soft tone when played lightly, and an aggressive tone when played hard.
7	ELECTRIC PIANO 3	—	○	○	—	A slightly different electric piano sound often heard in rock and popular music.
8	CHURCH ORGAN	○	—	—	—	This is a typical pipe organ sound (8 feet + 4 feet + 2 feet). Good for sacred music from the Baroque period.
9	JAZZ ORGAN	—	—	—	—	The sound of a tonewheel type electric organ. Often heard in jazz and rock idioms.
10	STRINGS	○	○	—	—	Stereo-sampled, large-scale strings ensemble with realistic reverb. Try combining this voice with piano in the DUAL.
11	HARPSICHORD	○	—	—	○	The definitive instrument for baroque music. Since harpsichord uses plucked strings, there is no touch response. There is, however, a characteristic additional sound when the keys are released.
12	E. CLAVICHORD	—	○	—	○	A hammer-struck keyboard instrument that utilizes an electric pickup that is often heard in funk and soul music. Its tone is noted for the unique sound produced when the keys are released.
13	VIBRAPHONE	○	○	○	—	Vibraphone played with relatively soft mallets. The tone becomes more metallic the harder you play.
14	SPLIT	*3	*3	*3	*3	Split lets you play two parts at the same time a bass part with the left hand, and a melody with the right hand.

*1. Dynamic Sampling provides multiple velocity-switched samples to accurately simulate the timbral response of an acoustic instrument.

*2. Contains a very subtle sample that is produced when the keys are released.

*3. Depends on the assigned voice.

○: Yes
—: No

Split Left Voice List

	Voice Name	Stereo Sampling	Touch Response	Dynamic Sampling ^{*1}	Key-Off Sampling ^{*2}	Voice Descriptions
1	WOOD BASS	—	○	—	—	An upright bass played fingerstyle. Ideal for jazz and Latin music.
2	BASS & CYMBAL	—	○	—	—	Adds a soft ride cymbal to the bass sound. Ideal for walking bass lines in jazz tunes.
3	E. BASS 1	—	○	—	—	Electric bass for a wide range of music styles, jazz, rock, popular, and more.
4	E. BASS 2	—	○	—	—	A fretless bass. Ideal for styles such as jazz, fusion, etc.

*1. Dynamic Sampling provides multiple velocity-switched samples to accurately simulate the timbral response of an acoustic instrument.

*2. Contains a very subtle sample that is produced when the keys are released.

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MEMO

ENGLISH

Preset Song List / Liste der voreingestellten Songs / Liste des morceaux prédéfinis / Lista de canciones preseleccionadas

No.	Title	Composer
1	Invention No. 1	J.S.Bach
2	Invention No. 8	J.S.Bach
3	Gavotte	J.S.Bach
4	Prelude (Wohltemperierte Klavier I No.1)	J.S.Bach
5	Menuett G dur BWV.Anh.114	J.S.Bach
6	Le Coucou	L-C.Daquin
7	Piano Sonate No.15 K.545 1st mov.	W.A.Mozart
8	Turkish March	W.A.Mozart
9	Menuett G dur	W.A.Mozart
10	Little Serenade	J.Haydn
11	Perpetuum mobile	C.M.v.Weber
12	Ecossaise	L.v.Beethoven
13	Für Elise	L.v.Beethoven
14	Marcia alla Turca	L.v.Beethoven
15	Piano Sonate op.13 "Pathétique" 2nd mov.	L.v.Beethoven
16	Piano Sonate op.27-2 "Mondschein" 1st mov.	L.v.Beethoven
17	Piano Sonate op.49-2 1st mov.	L.v.Beethoven
18	Impromptu op.90-2	F.P.Schubert
19	Moments Musicaux op.94-3	F.P.Schubert
20	Frühlingslied op.62-2	J.L.F.Mendelssohn
21	Jägerlied op.19b-3	J.L.F.Mendelssohn
22	Fantaisie-Impromptu	F.F.Chopin
23	Prelude op.28-15 "Raindrop"	F.F.Chopin
24	Etude op.10-5 "Black keys"	F.F.Chopin
25	Etude op.10-3 "Chanson de l'adieu"	F.F.Chopin
26	Etude op.10-12 "Revolutionary"	F.F.Chopin
27	Valse op.64-1 "Petit chien"	F.F.Chopin
28	Valse op.64-2	F.F.Chopin
29	Valse op.69-1 "L'adieu"	F.F.Chopin
30	Nocturne op.9-2	F.F.Chopin
31	Träumerei	R.Schumann
32	Fröhlicher Landmann	R.Schumann
33	La prière d'une Vierge	T.Badarzewska
34	Dolly's Dreaming and Awakening	T.Oesten
35	Arabesque	J.F.Burgmüller
36	Pastorale	J.F.Burgmüller
37	La chevaleresque	J.F.Burgmüller
38	Liebesträume Nr.3	F.Liszt
39	Blumenlied	G.Lange
40	Barcarolle	P.I.Tchaikovsky
41	Melody in F	A.Rubinstein
42	Humoresque	A.Dvořák
43	Tango (España)	I.Albéniz
44	The Entertainer	S.Joplin
45	Maple Leaf Rag	S.Joplin
46	La Fille aux Cheveux de Lin	C.A.Debussy
47	Arabesque 1	C.A.Debussy
48	Clair de lune	C.A.Debussy
49	Rêverie	C.A.Debussy
50	Golliwog's Cakewalk	C.A.Debussy

Factory Setting List / Liste der Vorgabeeinstellungen / Liste des réglages / Lista de ajustes de fábrica

	Default	Backup Group
Voice	GRAND PIANO 1	F9.1
Dual	OFF	
Split	OFF	
Split Right Voice	GRAND PIANO 1	
Split Left Voice	WOOD BASS	
Variation	NORMAL	F9.4
Reverb Type	Preset for each voice	F9.1
Reverb Depth	Preset for each voice	
Effect Type	Preset for each voice	
Effect Depth	Preset for each voice	
Touch Sensitivity	MEDIUM	
Volume in the FIXED	64	
Metronome	OFF	—
Metronome Time Signature	0 (no accent)	F9.1
Tempo	120	—
Transpose	0	F9.3

Function

Display	Function	Default	Backup Group
F1.	Tuning	A3=440Hz	F9.3
F2.1	Scale	1 (Equal Temperament)	
F2.2	Base Note	C	
F3.1	Dual Balance	Preset for each voice combination	F9.1
F3.2	Dual Detune	Preset for each voice combination	
F3.3, F3.4	Dual Octave Shift	Preset for each voice combination	
F3.5, F3.6	Dual Effect Depth	Preset for each voice combination	
F4.1	Split Point	F#2	
F4.2	Split Balance	Preset for each voice combination	
F4.3	Right Voice Selection	1	
F4.4	Left Voice Selection	1	
F4.5, F4.6	Split Octave Shift	Preset for each voice combination	
F4.7, F4.8	Split Effect Depth	Preset for each voice combination	
F4.9	Sustain Pedal Range	ALL	F9.4
F5.1	AUX Pedal	1 (Soft Pedal)	
F5.2	Soft Pedal Effect Depth	3	
F5.3	Sustain Sample Depth	12	
F5.4	Keyoff Sample Volume	10	
F5.5	Song Channel Selection	ALL	
F5.6	Sustain Pedal Type	1	
F5.7	AUX Pedal Type	1	
F6.	Metronome Volume	10	F9.1
F7.	Song Part Cancel Volume	5	F9.2
F8.1	MIDI Transmit Channel	1	
F8.2	MIDI Receive Channel	ALL	
F8.3	Local Control	ON	
F8.4	Program Change Send & Receive	ON	
F8.5	Control Change Send & Receive	ON	
F9.	Backup	Voice: OFF MIDI, Tuning, Others: ON	Always backed up

MIDI Data Format / MIDI-Datenformat / Format des données MIDI / Formato de datos MIDI

If you're already very familiar with MIDI, or are using a computer to control your music hardware with computer-generated MIDI messages, the data provided in this section can help you to control the P-140.

Falls Sie bereits mit MIDI vertraut sind oder einen Computer zur Erzeugung von MIDI-Steuermeldungen für die Instrumente verwenden, können Sie sich zur Steuerung des P-140 nach den im folgenden Abschnitt aufgeführten Spezifikationen richten.

Si vous êtes très familier avec l'interface MIDI ou si vous utilisez un ordinateur pour commander votre matériel de musique au moyen de messages MIDI générés par ordinateur, les données suivantes vous seront utiles et vous aideront à commander le P-140.

Si usted está ya familiarizado con MIDI, o si emplea una computadora para controlar sus aparatos musicales con mensajes MIDI generados por computadora, los datos proporcionados en esta sección le ayudarán a controlar la P-140.

1. NOTE ON/OFF

Data format: [9nH] -> [kk] -> [vv]

9nH = Note ON/OFF event (n = channel number)

kk = Note number (Transmit: 09H ~ 78H = A-2 ~ C8 /
Receive: 00H ~ 7FH = C-2 ~ G8)

vv = Velocity (Key ON = 01H ~ 7FH, Key OFF = 00H)

Data format: [8nH] -> [kk] -> [vv] (reception only)

8nH = Note OFF event (n = channel number)

kk = Note number: 00H ~ 7FH = C-2 ~ G8)

vv = Velocity

2. CONTROL CHANGE

Data format: [BnH] -> [cc] -> [vv]

BnH = Control change (n = channel number)

cc = Control number

vv = Data Range

(1) Bank Select

ccH	Parameter	Data Range (vvH)
-----	-----------	------------------

00H	Bank Select MSB	00H:Normal
-----	-----------------	------------

20H	Bank Select LSB	00H...7FH
-----	-----------------	-----------

Bank selection processing does not occur until receipt of next Program Change message.

(2) Main Volume

ccH	Parameter	Data Range (vvH)
-----	-----------	------------------

07H	Volume MSB	00H...7FH
-----	------------	-----------

(3) Expression

ccH	Parameter	Data Range (vvH)
-----	-----------	------------------

0BH	Expression MSB	00H...7FH
-----	----------------	-----------

(4) Sustain

ccH	Parameter	Data Range (vvH)
-----	-----------	------------------

40H	Sustain MSB	00H...7FH
-----	-------------	-----------

(5) Sostenuto

ccH	Parameter	Data Range (vvH)
-----	-----------	------------------

42H	Sostenuto	00H-3FH:off, 40H-7FH:on
-----	-----------	-------------------------

(6) Soft Pedal

ccH	Parameter	Data Range (vvH)
-----	-----------	------------------

43H	Soft Pedal	00H-3FH:off, 40H-7FH:on
-----	------------	-------------------------

(7) Effect1 Depth (Reverb Send Level)

ccH	Parameter	Data Range (vvH)
-----	-----------	------------------

5BH	Effect1 Depth	00H...7FH
-----	---------------	-----------

Adjusts the reverb send level.

(8) Effect4 Depth (Variation Effect Send Level)

ccH	Parameter	Data Range (vvH)
-----	-----------	------------------

5EH	Effect4 Depth	00H...7FH
-----	---------------	-----------

(9) RPN

65H	RPN	MSB
-----	-----	-----

64H	RPN	LSB
-----	-----	-----

06H	Data Entry	MSB
-----	------------	-----

26H	Data Entry	LSB
-----	------------	-----

60H	Data	Increment
-----	------	-----------

61H	Data	Decrement
-----	------	-----------

* Parameters that are controllable with RPN

- Coarse Tune

- Fine Tune

- Pitch Bend Range

3. MODE MESSAGES

Data format: [BnH] -> [cc] -> [vv]

BnH = Control event (n = channel number)

cc = Control number

vv = Data Range

(1) All Sound Off

ccH	Parameter	Data Range (vvH)
-----	-----------	------------------

78H	All Sound Off	00H
-----	---------------	-----

(2) Reset All Controllers

ccH	Parameter	Data Range (vvH)
-----	-----------	------------------

79H	Reset All Controllers	00H
-----	-----------------------	-----

Resets controllers as follows.

Controller	Value
------------	-------

Expression	127 (max)
------------	-----------

Sustain Pedal	0 (off)
---------------	---------

Sostenuto	0 (off)
-----------	---------

Soft Pedal	0 (off)
------------	---------

(3) Local Control (reception only)

ccH	Parameter	Data Range (vvH)
-----	-----------	------------------

7AH	Local Control	00H (off), 7FH (on)
-----	---------------	---------------------

(4) All Notes Off

ccH	Parameter	Data Range (vvH)
-----	-----------	------------------

7BH	All Notes Off	00H
-----	---------------	-----

Switches OFF all the notes that are currently ON on the specified channel. Any notes being held by the sustain or sostenuto pedal will continue to sound until the pedal is released.

(5) Omni Off (reception only)

ccH	Parameter	Data Range (vvH)
-----	-----------	------------------

7CH	Omni Off	00H
-----	----------	-----

Same processing as for All Notes Off.

(6) Omni On (reception only)

ccH	Parameter	Data Range (vvH)
-----	-----------	------------------

7DH	Omni On	00H
-----	---------	-----

Same processing as for All Notes Off.

(7) Mono (reception only)

ccH	Parameter	Data Range (vvH)
-----	-----------	------------------

7EH	Mono	00H
-----	------	-----

Same processing as for All Sound Off.

(8) Poly (reception only)

ccH	Parameter	Data Range (vvH)
-----	-----------	------------------

7FH	Poly	00H
-----	------	-----

Same processing as for All Sound Off.

- When Control Change is turned OFF, Control Change messages will not be transmitted or received.
- Local on/off, OMNI on/off are not transmitted. (The appropriate note off number is supplied with "All Note Off" transmission).
- When a voice bank MSB/LSB is received, the number is stored in the internal buffer regardless of the received order, then the stored value is used to select the appropriate voice when a program change message is received.
- Poly mode is always active. This mode will not change when the instrument receives MONO/POLY mode message.

4. PROGRAM CHANGE

Data format: [CnH] -> [ppH]

CnH = Program event (n = channel number)

ppH = Program change number

P.C.#=Program Change number

Voice Name	MSB	LSB	P.C.#
GRAND PIANO 1	0	122	1
GRAND PIANO 2	0	112	1
GRAND PIANO 3	0	123	1
PIANO & STRINGS	0	125	1
ELECTRIC PIANO 1	0	122	6
ELECTRIC PIANO 2	0	122	5
ELECTRIC PIANO 3	0	123	5
CHURCH ORGAN	0	123	20
JAZZ ORGAN	0	122	17
STRINGS	0	122	49
HARPSICHORD	0	122	7
E.CLAVICHORD	0	122	8
VIBRAPHONE	0	122	12

SPLIT VOICE

Voice Name	MSB	LSB	P.C.#
WOOD BASS	0	122	33
BASS & CYMBAL	0	124	33
E.BASS 1	0	122	34
E.BASS 2	0	122	36

- Some devices use a "0 to 127" numbering system for program change messages. Since the P-140 uses a "1 to 128" numbering system, you will need to subtract 1 from the transmitted program change numbers to select the appropriate sound: e.g. to select P.C.#1 in the list above, transmit program change number 0.

5. PITCH BEND CHANGE

[EnH] -> [ccH] -> [ddH]

ccH = LSB

ddH = MSB

6. SYSTEM REALTIME MESSAGES

[rrH]

F8H: Timing clock

FAH: Start

FCH: Stop

FEH: Active sensing

Data	Transmission	Reception
F8H	Transmitted every 96 clocks	Received as 96-clock tempo timing when MIDI clock is set to External.
FAH	Song start	Song start Not received when the MIDI clock is set to Internal.
FCH	Song stop	Song stop Not received when the MIDI clock is set to Internal.
FEH	Transmitted every 200 milliseconds	If a signal is not received via MIDI for more than 400 milliseconds, the same processing will take place for All Sound Off, All Notes Off and Reset All Controllers as when those signals are received.

- Caution: If an error occurs during MIDI reception, the Sustain, Sostenuto, and Soft effects for all channels are turned off and an All Note Off message occurs.

7. SYSTEM EXCLUSIVE MESSAGES

(Yamaha MIDI Format)

Panel Data Transmit

Data format: [F0H] -> [43H] -> [0nH] -> [7CH] -> ... -> [F7H]

F0H, 43H, 0nH, 7CH (n: channel number)

00H, LLH (data length)

43H, 4CH, 20H, 20H (CL)

43H, 4CH, 50H, 27H, 30H, 35H (CLP05)

3xH, 3yH (version x.y)

[PANEL DATA]

[CHECK SUM (1byte)] = 0-(43H+4CH+20H+.....+Data end)

F7H (End of Exclusive)

• Panel Data Contents

- | | |
|--------------------------------|-------------------------------|
| (1) 1'st Voice | (19) Reverb Type 1 |
| (2) Dual On/Off | (20) Reverb Type 2 |
| (3) Dual Voice | (21) Reverb Depth 1 |
| (4) Dual Balance | (22) Reverb Depth 2 |
| (5) Dual Detune | (23) Effect Type 1 |
| (6) Dual Voice1 Octave | (24) Effect Type 2 |
| (7) Dual Voice2 Octave | (25) Effect Depth |
| (8) Dual Voice1 Effect Depth | (26) — |
| (9) Dual Voice2 Effect Depth | (27) Touch Sensitivity |
| (10) Split On/Off | (28) Fixed Data |
| (11) Split Voice | (29) AUX Pedal |
| (12) Split Point | (30) Soft Pedal Depth |
| (13) Split Balance | (31) Absolute tempo low byte |
| (14) Split Voice1 Octave | (32) Absolute tempo high byte |
| (15) Split Voice2 Octave | (33) Key-Off Sampling Depth |
| (16) Split Voice1 Effect Depth | (34) — |
| (17) Split Voice2 Effect Depth | (35) — |
| (18) Split Sustain Mode | (36) Variation |

- Panel data send requests cannot be received.

8. SYSTEM EXCLUSIVE MESSAGES

(Universal System Exclusive)

(1) Universal Realtime Message

Data format: [F0H] -> [7FH] -> [XnH] -> [04H] -> [01H] ->

[lIH] -> [mmH] -> [F7H]

MIDI Master Volume

- Simultaneously changes the volume of all channels.
- When a MIDI master volume message is received, the volume only has affect on the MIDI receive channel, not the panel master volume.

F0H = Exclusive status

7FH = Universal Realtime

7FH = ID of target device

04H = Sub-ID #1=Device Control Message

01H = Sub-ID #2=Master Volume

//H = Volume LSB

mmH = Volume MSB

F7H = End of Exclusive

or

F0H = Exclusive status

7FH = Universal Realtime

XnH = When n is received n=0~F, whichever is received.

X = irrelevant

04H = Sub-ID #1=Device Control Message

01H = Sub-ID #2=Master Volume

//H = Volume LSB

mmH = Volume MSB

F7H = End of Exclusive

(2) Universal Non-Realtime Message (GM On)

General MIDI Mode On

Data format: [F0H] -> [7EH] -> [XnH] -> [09H] -> [01H] -> [F7H]

F0H = Exclusive status
7EH = Universal Non-Realtime
7FH = ID of target device
09H = Sub-ID #1=General MIDI Message
01H = Sub-ID #2=General MIDI On
F7H = End of Exclusive

or

F0H = Exclusive status
7EH = Universal Non-Realtime
XnH = When received, n=0~F.
X = irrelevant
09H = Sub-ID #1=General MIDI Message
01H = Sub-ID #2=General MIDI On
F7H = End of Exclusive

When a General MIDI mode ON message is received, the MIDI system will be reset to its default settings. This message requires approximately 50ms to execute, so sufficient time should be allowed before the next message is sent.

9. SYSTEM EXCLUSIVE MESSAGES (XG Standard)

(1) XG Native Parameter Change

Data format: [F0H] -> [43H] -> [1nH] -> [4CH] -> [hhH] -> [mmH] -> [//H] -> [ddH] ->...-> [F7H]

F0H = Exclusive status
43H = YAMAHA ID
1nH = When received, n=0~F.
When transmitted, n=0.
4CH = Model ID of XG
hhH = Address High
mmH = Address Mid
//H = Address Low
ddH = Data

|
F7H = End of Exclusive

Data size must match parameter size (2 or 4 bytes).
When an XG System On message is received, the MIDI system will be reset to its default settings. The message requires approximately 50ms to execute, so sufficient time should be allowed before the next message is sent.

(2) XG Native Bulk Data (reception only)

Data format: [F0H] -> [43H] -> [0nH] -> [4CH] -> [aaH] -> [bbH] -> [hhH] -> [mmH] -> [//H] -> [ddH] ->...-> [ccH] -> [F7H]

F0H = Exclusive status
43H = YAMAHA ID
0nH = When received, n=0~F.
When transmitted, n=0.
4CH = Model ID of XG
aaH = Byte Count
bbH = Byte Count
hhH = Address High
mmH = Address Mid
//H = Address Low
ddH = Data

| |
| |
ccH = Check sum
F7H = End of Exclusive

- Receipt of the XG SYSTEM ON message causes reinitialization of relevant parameters and Control Change values. Allow sufficient time for processing to execute (about 50 msec) before sending the P-140 another message.
- XG Native Parameter Change message may contain two or four bytes of parameter data (depending on the parameter size).
- For information about the Address and Byte Count values, refer to Table 1 below. Note that the table's Total Size value gives the size of a bulk block. Only the top address of the block (00H, 00H, 00H) is valid as a bulk data address.

10. SYSTEM EXCLUSIVE MESSAGES

(P-140 MIDI Format)

Data format: [F0H] -> [43H] -> [73H] -> [01H] -> [nnH] -> [F7H]

F0H = Exclusive status
43H = Yamaha ID
73H = P-140 ID
01H = Product ID (CLP common)
nnH = Substatus
nn Control
02H Internal MIDI clock
03H External MIDI clock
F7H = End of Exclusive

11. SYSTEM EXCLUSIVE MESSAGES (Special Control)

Data format: [F0H] -> [43H] -> [73H] -> [xxH] -> [11H] -> [0nH] -> [ccH] -> [vvH] -> [F7H]

F0H = Exclusive status
43H = Yamaha ID
73H = P-140 ID
7FH = Extended Product ID
xxH = Product ID 4CH
11H = Special control
0nH = Control MIDI change (n=channel number)
cc = Control number
vv = Value
F7H = End of Exclusive

Control	On	ccH	vvH
Split Point	Always 00H	14H	14H: Split Key Number
Metronome	Always 00H	1BH	00H: No accent 01H-0FH: 1/4-15/4 7FH: off
Sustain Level	ch: 00H-0FH	3DH	(Sets the Sustain Level for each channel) 00H-7FH
Channel Detune	ch: 00H-0FH	43H	(Sets the Detune value for each channel) 00H-7FH
Voice Reserve	ch: 00H-0FH	45H	00H : Reserve off 7FH : on*

* When Volume or Expression is received for Reserve On, they will be effective from the next Key On. Reserve Off is normal.

12. SYSTEM EXCLUSIVE MESSAGES (Others)

Data format: [F0H] -> [43H] -> [1nH] -> [27H] -> [30H] -> [00H] -> [00H] -> [mmH] -> [//H] -> [ccH] -> [F7H]

Master Tuning (XG and last message priority) simultaneously changes the pitch of all channels.

F0H = Exclusive Status
43H = Yamaha ID
1nH = When received, n=0~F.
When transmitted, n=0.
27H = Model ID of TG100
30H = Sub ID
00H =
00H =
mmH = Master Tune MSB
//H = Master Tune LSB
ccH = irrelevant (under 7FH)
F7H = End of Exclusive

<Table 1>

MIDI Parameter Change table (SYSTEM)

Address (H)	Size (H)	Data (H)	Parameter	Description	Default value (H)
00 00 00	4	020C - 05F4*	MASTER TUNE	-50 - +50[cent]	00 04 00 00
01				1st bit 3 - 0 → bit 15 - 12	400
02				2nd bit 3 - 0 → bit 11 - 8	
03				3rd bit 3 - 0 → bit 7 - 4	
				4th bit 3 - 0 → bit 3 - 0	
04	1	00 - 7F	MASTER VOLUME	0 - 127	7F
7E		00	XG SYSTEM ON	00=XG system ON	
7F		00	RESET ALL PARAMETERS	00=ON (receive only)	
TOTAL SIZE	07				

*Values lower than 020CH select -50 cents. Values higher than 05F4H select +50 cents.

<Table 2>

MIDI Parameter Change table (EFFECT 1)

Refer to the "Effect MIDI Map" for a complete list of Reverb, Chorus and Variation type numbers.

Address (H)	Size (H)	Data (H)	Parameter	Description	Default value (H)
02 01 00	2	00-7F	REVERB TYPE MSB	Refer to Effect MIDI Map	01 (=HALL1)
		00-7F	REVERB TYPE LSB	00 : basic type	00
02 01 40	2	00-7F	VARIATION TYPE MSB	Refer to Effect MIDI Map	00(=Effect off)
		00-7F	VARIATION TYPE LSB	00 : basic type	00

• "VARIATION" refers to the EFFECT on the panel.

<Table 3>

MIDI Parameter Change table (MULTI PART)

Address (H)	Size (H)	Data (H)	Parameter	Description	Default value (H)
08 nn 11	1	00 - 7F	DRY LEVEL	0 - 127	7F

nn = Part Number

• Effect MIDI Map

REVERB

	MSB	LSB
ROOM	02H	10H
HALL 1	01H	10H
HALL 2	01H	11H
STAGE	03H	10H
OFF	00H	00H

EFFECT

	MSB	LSB
CHORUS	42H	10H
PHASER	48H	10H
TREMOLO	46H	10H
ROTARY SP	47H	10H
OFF	00H	00H

Function	Transmitted	Recognized	Remarks
Basic Channel Default Changed	1 - 16 X	1 - 16 1 - 16	
Mode Default Messages Altered	3 X *****	3 X X	
Note Number : True voice	0 - 127 *****	0 - 127 0 - 127	
Velocity Note ON Note OFF	O 9nH, v=1-127 X	O 9nH, v=1-127 X	
After Touch Key's Ch's	X X	X X	
Pitch Bend	X	O 0 - 24 semi	
Control Change 0,32 1 7 10 11 6,38 64,66,67 84 91,94 96-97 100-101	O X X X O X O X O X X X	O O O O O O O O O O O	Bank Select Modulation Main Volume Panpot Expression Data Entry Portamento Control Effect Depth RPN Inc,Dec RPN LSB,MSB
Prog Change : True #	O 0 - 127 *****	O 0 - 127	
System Exclusive	O	O	
Common : Song Pos. : Song Sel. : Tune	X X X	X X X	
System : Clock Real Time : Commands	O O	O O	
Aux : All Sound Off : Reset All Cntrls : Local ON/OFF Mes- : All Notes OFF sages: Active Sense : Reset	O O X O O O X	O (120,126,127) O (121) O (122) O (123-125) O O X	
Notes:			

Mode 1 : OMNI ON , POLY Mode 2 : OMNI ON , MONO O : Yes
 Mode 3 : OMNI OFF, POLY Mode 4 : OMNI OFF, MONO X : No

Specifications / Technische Daten / Caractéristiques techniques / Especificaciones

Keyboard	GH keyboard 88 keys (A-1 – C7)
Sound Source	AWM Dynamic Stereo Sampling
Polyphony (Max.)	64
Voice Selection	14 × 3 variations for each voice (Bright/Normal/Mellow)
Effect	Reverb, Effect
Volume	Master Volume
Controls	Dual, Split, Metronome, Transpose, Touch (Hard/Medium/Soft/Fixed), Functions
Recording/Playback	2-part recording/playback (three User songs), Tempo Adjustment, Sync Start
Pedal	SUSTAIN PEDAL (Can be used with half pedal effect), AUX PEDAL (Assignable to various functions)
Demo Songs	14 voice Demo Songs, 50 preset Songs
Jacks/Connectors	MIDI (IN/OUT), PHONES × 2, AUX OUT (LEVEL FIXED) (L, R), DC IN 12V, SUSTAIN PEDAL, AUX PEDAL
Memory Device	(for saving User songs): 65 KB (for saving External songs): 352 KB
Main Amplifiers	6W × 2
Speakers	(12 cm × 6 cm) × 2
Dimensions (W × D × H) (with music rest)	1,334 mm × 351 mm × 140 mm [52-1/2" × 13-13/16" × 5-1/2"] (1,334 mm × 357 mm × 332 mm) [52-1/2" × 14-1/16" × 13-1/16"]
Weight	17.8 kg (39lbs., 4oz)
Accessories	Owner's Manual, Yamaha PA-5D power adaptor, Pedal (FC3), Music Rest

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3. **NOTE:** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of

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(class B)

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