



disklavierTM
PROTM series

Pro Manual
Manuel de la série Pro
Pro-Handbuch

ABOUT THIS MANUAL

This *Pro Manual* introduces features exclusive to the Disklavier Pro Series and also describes the differences from the standard Mark II XG Series based on the *Getting Started & Playback Manual* (A) and *Advanced Operation Manual* (B). Be sure to read this *Pro Manual* first with reference to manuals (A) and (B).

Note: Items that should be read in conjunction with relevant sections in the other two manuals are indicated in this manual as follows:

e.g., **See also (A) page 1**

(A) refers to the *Getting Started & Playback Manual*; (B) refers to the *Advanced Operation Manual*.

PRÉAMBULE

Ce Manuel de la série Pro présente les caractéristiques propres à la série Disklavier Pro et il décrit les différences existant avec la série standard Mark II XG, sur la base du *Manuel d'instruction et des fonctions de reproduction* (A) et du *Manuel d'approfondissement* (B). Il est conseillé de commencer par lire ce *Manuel de la série Pro* en se référant aux manuels (A) et (B).

Remarque : Les articles devant être lus conjointement avec des parties concernées des deux autres manuels sont indiqués comme suit dans le présent manuel :

Exemple : **Voir aussi (A) page 1**

(A) représente le *Manuel d'instruction et des fonctions de reproduction* ; (B) représente le *Manuel d'approfondissement*.

ZUM VORLIEGENDEN HANDBUCH

Dieses Pro-Handbuch stellt die exklusiven Merkmale der Disklavier Pro-Serie vor und beschreibt außerdem die Unterschiede zur herkömmlichen Mark II XG-Serie auf der Grundlage des *Handbuchs "Einstieg und Wiedergabe"* (A) und des *Fortsetzungshandbuchs* (B). Lesen Sie zuerst dieses *Pro-Handbuch* unter Bezugnahme auf die beiden Handbücher (A) und (B) durch.

Hinweis: Informationen, die in Verbindung mit den relevanten Abschnitten in den beiden anderen Handbüchern gelesen werden sollten, sind in diesem Handbuch wie folgt gekennzeichnet:

z.B.: **Siehe auch (A) Seite 1**

(A) bezieht sich auf das *Handbuch "Einstieg und Wiedergabe"*; (B) bezieht sich auf das *Fortsetzungshandbuch*.



disklavier™
PRO™ series

Pro Manual

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Chapter 1

Introduction

Welcome to the Disklavier Pro™!

See also (A) page 1

Thank you for purchasing the Disklavier Pro!

The Disklavier Pro is the flagship of Yamaha's highly acclaimed series of Disklavier pianos which incorporates newly developed technologies that enable dynamic, high-precision recording and playback of an unprecedented level. Combining innovative high-performance technology with the renowned Yamaha acoustic grand piano, you can be assured of the ultimate reproduction of even the most intricate and demanding performance.

Faithful playback using servo control technology

The heart of the Disklavier Pro's high-performance capability lies in Yamaha's exclusive servo control system which uses a combination of high-power solenoids and ultra-sensitive sensors. Precision control of this advanced system is realized by a new, exclusively developed processing unit consisting of eight LSIs. The result is accurate playback of the widest dynamic range ever, from the faintest pianissimo to the strongest fortissimo. Even the playback of silent notes used to add harmonics to other notes is possible, giving the Disklavier Pro the ability to play back virtually any performance exactly the way it is played.

True-to-original recording

High-precision recording is realized by a unique dual sensing system where newly developed optical sensors monitor every movement of the keys along with the speed of each hammer stroke. In Enhanced mode, key sensors not only read how softly or firmly a key is pressed, but also the dampening speed of the notes when the key is released, thus making it possible to precisely reproduce light staccatos and smooth legatos. Even songs in which release speed is not recorded can be played back at a natural speed. Moreover, with the Disklavier Pro's extended MIDI data format (XP mode), optical sensors monitor key movement and assign MIDI control parameters to the data, enabling the Disklavier Pro to record and play back even the finest differences in keyboard touch from delicate half key strokes to deep, fully-pressed strokes.

The Disklavier Pro's impressive recording and playback capability ensures perfect capture of all the subtleties of a pianist's performance.

High-precision pedal drive

The pedals are also controlled using optical sensors and digital servo technology with a special dedicated 32-bit processor, enabling fine processing of even the smallest pedal movement.

Built-in calibration system

To maintain optimum playback and recording conditions, the Disklavier Pro has a versatile calibration system which fully supports servo technology to calibrate the solenoids and sensors from every checkpoint. This ensures standardization of recorded data and compensates for any unevenness throughout the 88 keys to guarantee ultimate performance every time.

Grand Silent System

Yamaha's unique *Grand Silent System* lets you enjoy the rich sound of a grand piano in total privacy using headphones. A touch of the *Silent* button disables the hammers from striking the strings, completely silencing the Disklavier Pro. By using an amazing 30 Mbytes of memory, Yamaha painstakingly reproduced every dynamic aspect of a grand piano for use in the *Grand Silent System's* digital tone generator. Yamaha's own special action mechanism and dual sensors accurately respond to the player's touch for a remarkably realistic digital reproduction. The *Silent System* also offers the perfect solution to multi-track recording, allowing you to record orchestral tracks from the Disklavier Pro keyboard, via the internal instrumental tone generator, without hearing the sound of the piano.

Items Supplied with the Disklavier Pro

See also (A) page 2

Check that the following items are supplied with your Disklavier Pro.

1	Remote Control
2	Batteries for the Remote Control
1	Disklavier Pro Sample Disk (PianoSoft)
1	Blank Floppy Disk
1	HPE-170 Stereo Headphones
1	Audio Cable (stereo RCA to stereo 1/4" plug)
1	Control Unit Suspension Bracket
1	Disklavier <i>Pro Manual</i>
1	Disklavier Mark II XG Series <i>Getting Started & Playback Manual</i>
1	Disklavier Mark II XG Series <i>Advanced Operation Manual</i>
1	Disklavier <i>Silent Operation Manual</i>

Disklavier Pro Owner's Manuals

See also (A) page 2

The Disklavier Pro is supplied with four owner's manuals:

Disklavier *Pro Manual*

This manual introduces features exclusive to the Disklavier Pro Series. It also describes the differences from the standard Mark II XG Series, so be sure to read this manual before reading the Disklavier Mark II XG Series manuals (A) and (B).

Disklavier Mark II XG Series manuals (A) & (B)

These manuals, originally prepared for the Disklavier Mark II XG Series, are also used for the Pro Series as the Control Unit and its operations are basically the same. However, when reading manuals (A) and (B) as a Pro user, be sure to refer to the *Pro Manual* to operate your Disklavier Pro piano properly.

Getting Started & Playback Manual (A)

This manual introduces features and functions of standard Disklavier models, mainly how to play back songs. Playback capability include basic functions such as song select, volume adjustment, and tempo change, along with other features such as repeat playback, playback using the metronome and pedals, and advanced Ensemble song playback.

Advanced Operation Manual (B)

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

Silent Operation Manual

This manual describes the *Silent* operation which is common to any Disklavier piano with a built-in *Silent* system, including functions such as adjusting the volume, applying reverb to the digital piano sound, and cancelling the key action in *Silent* mode.

Note: Items that should be read in conjunction with relevant sections in the other two manuals are indicated in this manual as follows:
e.g., See also (A) page 1.
(A) refers to the *Getting Started & Playback Manual*; (B) refers to the *Advanced Operation Manual*.

Disklavier Pro Terminology

See also (A) pages 3 & 4

Enhanced mode

The Disklavier Pro is in Enhanced mode by default. In addition to standard note and pedal data, it records and plays back such detailed aspects of a piano performance as "silent notes" and key release speed.

Songs recorded in this mode are compatible with most MIDI instruments.

Silent note

A note that is silently held down for the purpose of adding harmonics to other notes.

XP data

XP data is the group of MIDI messages (extended data) added to the standard MIDI Disklavier performance data. It contains information regarding all the subtle nuances of a pianist's performance, including key speed, depth, and touch, as well as additional information for enhancing data processing. Yamaha XP takes advantage of general-purpose controller numbers in the existing MIDI format to record this extended data, while retaining full MIDI compatibility.

XP song

An XP song is one which contains XP data and XP-On exclusive messages for enabling XP mode and activating XP data within the Disklavier Pro.

An XP song is played back in XP mode, which is uniquely supported by the Disklavier Pro. However, it is compatible with standard Disklavier models and general MIDI instruments as well, since it is essentially composed of MIDI data. However, XP songs have twice as much data as standard MIDI songs.

XP mode

Disklavier Pro's high-precision recording and playback capabilities can be fully enjoyed in Enhanced mode (default), but it can be switched to XP mode for higher precision recording.

Trademarks & Copyright

See also (A) page 3

Disklavier Pro is a trademark of Yamaha Corporation.

Chapter 2 Changes to the Mark II XG Series Manuals (A) & (B)

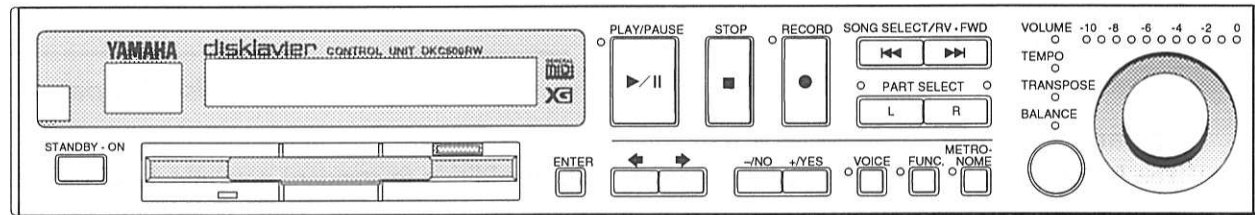
The Disklavier Pro utilizes the same Control Unit as the Mark II XG Series, so operational procedures are essentially the same, except for a few features described in this section. Please keep these differences in mind when reading manuals (A) and (B).

Control Unit

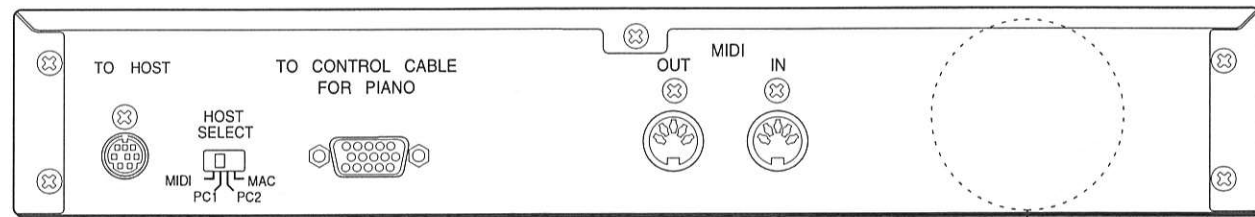
Changes to (A) Chapter 2 "Names of Parts and Their Functions"

The functions of the buttons and parts of the Control Unit and remote control are essentially the same as the standard Mark II XG Series (excluding the OUTPUT R, L/MONO connectors on the rear panel of the Control Unit). See also the *Silent Operation Manual* for more details.

Front Panel



Rear Panel

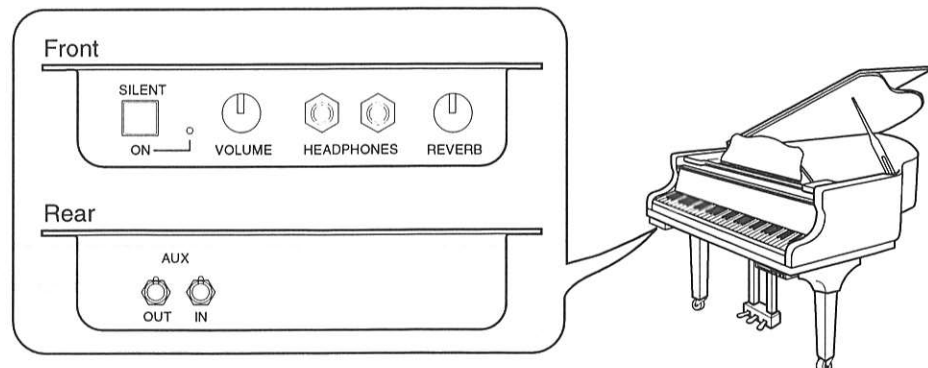


With the Disklavier Pro, OUTPUT R, L/MONO connectors have been replaced with AUX OUT, IN connectors (④, ⑤) on the Silent Control Box, as shown below.

Silent Control Box

Addition to (A) Chapter 2 "Names of Parts and Their Functions"

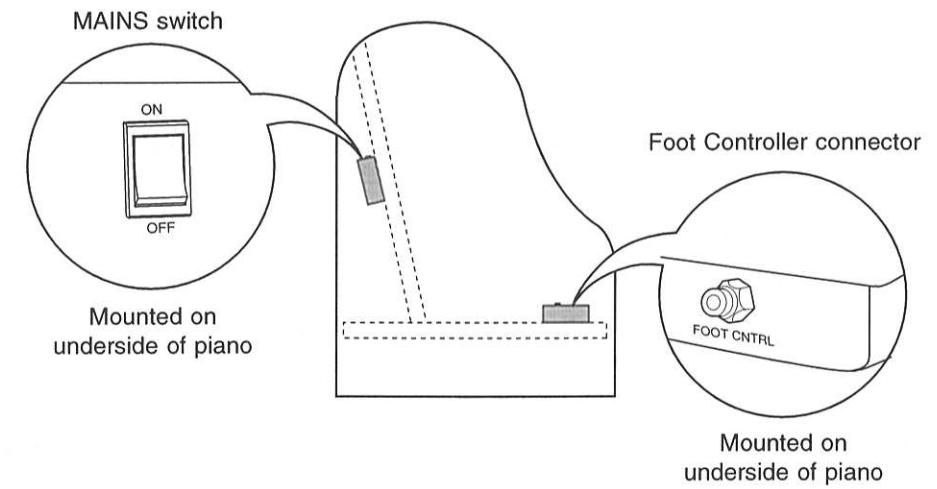
The Disklavier Pro is equipped with a Silent Control Box shown below. See the *Silent Operation Manual* for a functional description of each control.



Mains Switch & Foot Controller

Changes to (A) page 10

The MAINS switch and Foot Controller connector are located as shown in the following illustration. Their functions are the same as those of the standard Disklavier.

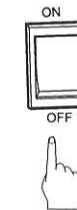


Power On Procedure

Changes to (A) page 13

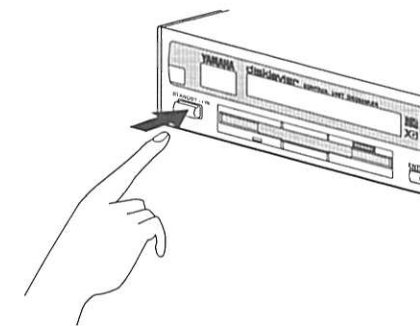
1

Set the MAINS switch to ON.



2

Press the [STANDBY - ON] button on the front panel of the Control Unit.



The following message appears in the display.

```
***** YAMAHA *****
**** DISKLAVER Pro ****
```

3

Turn your sound system on if you will be playing back Ensemble songs.

Your Disklavier Pro is now ready for use.

Power Off Procedure

Changes to (A) page 13

- 1 If you were using a sound system, turn it off.
- 2 Disengage the *Silent* mode if it had been engaged. (See "Engaging the *Silent Mode*" on page 9 of the *Silent Operation Manual*.)
- 3 Press the [STANDBY - ON] button on the Control Unit.
- 4 Set the MAINS switch to OFF.
Operating the Disklavier Pro's MAINS switch is effectively the same as disconnecting the power cable from an AC wall outlet. If the Disklavier Pro is used regularly, you only need to use the [STANDBY - ON] button on the Control Unit. If the Disklavier Pro is not going to be used for a long period, set the MAINS switch to OFF.
When the Disklavier Pro is powered off, wait at least 5 seconds before powering on again.

Display

Changes to (A) Chapter 6 "Song Number Indicator and Display"

In the song title display, brackets around the time display portion indicate that the Disklavier is in XP mode.

Brackets indicating XP Mode

Piano Fantastic [00:00]+
S0 XG

On/off pedal and continuous pedal indications represented by angle brackets and parentheses, respectively, are not displayed for XP songs.

Angle brackets indicating
on/off pedal data

Piano Fantastic <00:00>+
ES XG

Parentheses indicating
continuous pedal data (half pedal)

Piano Fantastic (00:00)+
ES XG

Changing the Default Song Tempo

Addition to (B) page 11

When changing a song's default tempo, tempo ranges are as follows.

	Range	Default
Measures and beats		
SMF	30 - 400	117
E-SEQ	30 - 280	117
Minutes and seconds		
SMF	-0.75% - +242%	+000%
E-SEQ	-0.75% - +140%	+000%

Chapter 3

Enhanced Mode and XP Mode

In Enhanced mode, all aspects of a piano performance, such as key release speed and silent notes that are necessary for high-fidelity playback and recording, are predicted from MIDI messages and reproduced by the Disklavier Pro, thereby enhancing musicality of even songs that were recorded with Disklavier pianos other than the Disklavier Pro.

Disklavier Pro's high-precision recording and playback capabilities can be fully enjoyed in Enhanced mode. XP mode, however, supports additional information including even the subtlest keyboard touch and enhanced data processing, for increased precision. And, as XP songs are essentially composed of MIDI messages, they are compatible with conventional Disklavier models. They can be played back on all Disklavier models without any problem.

Note: The additional information supported in XP mode will naturally cause XP song data to be larger than songs recorded in Enhanced mode.

Keyboard Touch Data

The Disklavier Pro records keyboard touch data to control silent notes and the decay of sound in *Silent* mode. Technically, the Disklavier Pro sends and receives keyboard touch data in the form of polyphonic aftertouch data. Key position and other such information are sent and received as independent polyphonic aftertouch data, instead of as continuous output data based on key pressure applied after the keys are played.

Note: Polyphonic aftertouch is not recorded when recording E-SEQ songs in Enhanced mode.

Note: Silent notes cannot be reproduced with digital tone generators.

Changing Modes

The Disklavier Pro is in Enhanced mode by default, allowing you to handle song data in standard MIDI format for compatibility with other MIDI instruments. You can also switch it to XP mode to enable the Disklavier Pro to record XP songs.

As XP data supplements standard MIDI data, when XP songs are edited, Note On/Off information and time-related factors of XP data may be slightly altered in a way that deprives the song of its extended XP data. If you plan to later edit song data, you should record them in Enhanced mode. Highly accurate recording can be performed even in Enhanced mode.

When playing back songs, XP mode is automatically set to on or off according to the "XP System On" and "XP Ch Set" messages that had been input when the song was recorded.

1 Press the [FUNC.] button.

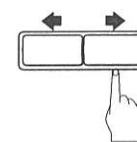


The following display appears.

```

┌Disk      *MIDI Setup →
└*M-Tune   (*←, →, ENT)
  
```

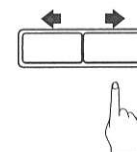
2 Press the [↔] button until the following display appears.



```

←Track      *XP Mode
*Reset
  
```

3 Use the [↔] to position the cursor at the XP Mode option, then press the [ENTER] button.



The following display appears.

```

*Record=ENHANCED →
  
```

The continuing display shows the following.

```

←*KBD Out=ENHANCED
*Receive=AUTO
  
```

Record

Option	Description
ENHANCED (default)	Song is not recorded in XP format, but with normal note, key-off velocity and pedal data.
XP	Song is recorded in XP format. (Includes extended velocity data.)

KBD Out

Option	Description
ENHANCED (default)	Normal note and pedal data only are sent to the MIDI channel, and not the XP data.
XP	The entire XP data is sent to the MIDI channel.

Receive

Option	Description
AUTO (default)	If incoming data contains "XP System On" and "XP Ch Set" messages, the Disklavier Pro automatically receives XP data; if not, the Disklavier Pro does not receive XP data.
XP	XP data is always received.
ENHANCED	XP data is not received, but only normal note and pedal data.

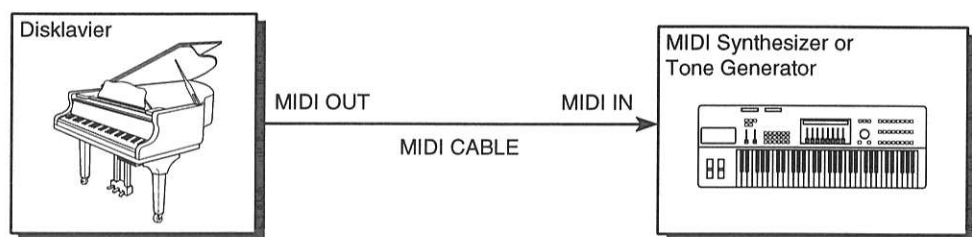
4 Press the [ENTER] button.



Filtering KBD Out Data in Enhanced Mode

When sending data for the piano part you play on the Disklavier Pro keyboard in Enhanced mode to an external MIDI instrument, the data contains keyboard touch data and continuous pedal data as well. These data can be filtered so that only basic MIDI messages are output.

1 Connect the Disklavier Pro's MIDI OUT to the external MIDI instrument's MIDI IN connector using a MIDI cable.



2 Set KBD Out to Enhanced mode as described in "Changing Modes" on page 8.

3 Press the [FUNC.] button.



The FUNC. indicator lights and the Function menu display appears.

4 Use the [↔] cursor button to position the cursor next to the MIDI Setup option, then press the [ENTER] button.

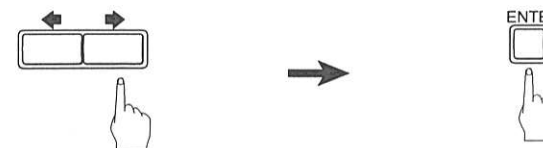


The following display appears.

```

Piano Part *MIDI Out
*Remote    *Local
    
```

5 Use the [↔] cursor button to position the cursor next to the MIDI Out option, then press the [ENTER] button.



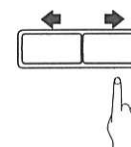
The following display appears.

```

MIDI Out=KBD Out
    
```

→ See "Summary of the MIDI Out Parameter in a MIDI Setup" on page 78 and 79 of the *Advanced Operation Manual* for details on the MIDI Out parameter.

6 Press the [↔] cursor button.

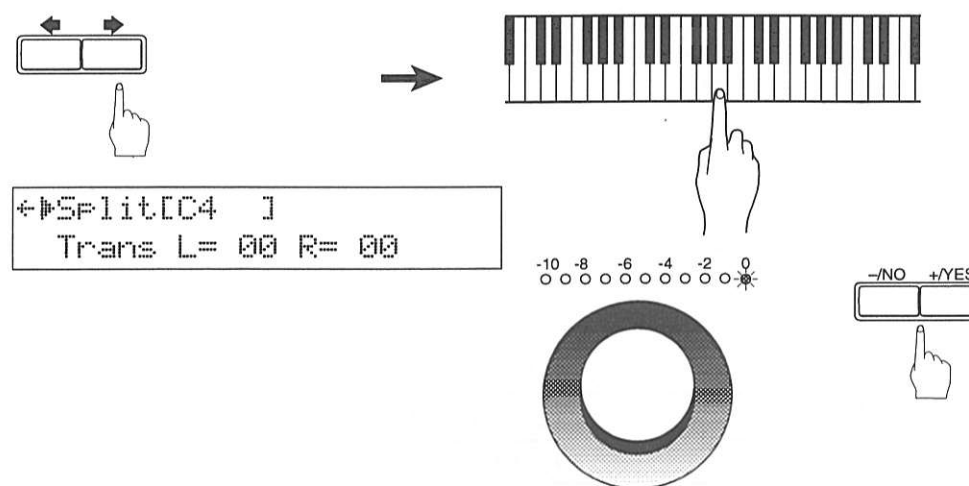


A display similar to the following appears.

```

Out Ch=01
Prs=### Vol=###
    
```

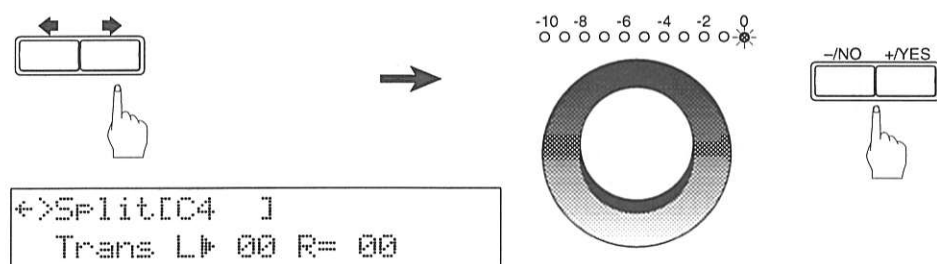
7 To set a split point, press the [↔] cursor button until the following display appears. Then, with the cursor next to the Split parameter, use the Dial, keyboard or the [-/NO] and [+ /YES] buttons to select a key.



A keyboard split point can be set from A-1 to C-7.

8

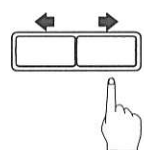
If you want to transpose the MIDI output, press the [↔] cursor button to position the ▸ cursor next to the Trans parameter, then use the Dial or the [-/NO] and [+ /YES] buttons to set a value.



The MIDI output can be transposed from -60 to +60 in one semitone steps. Separate transposition values can be set for the left- and right-hand parts.

9

Press the [↔] cursor button.

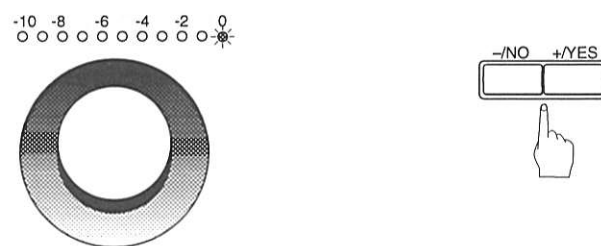


The following display appears.

```
←Key Touch▶ON
Pedal=CONT
```

10

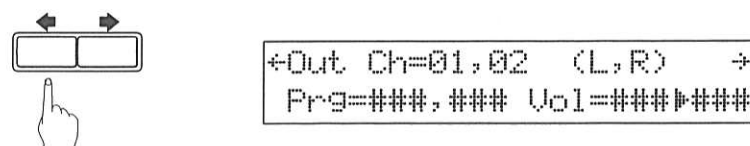
Use the Dial or the [-/NO] and [+ /YES] buttons to set the options.



Parameter	Option	Description
Key Touch	ON (default)	Sends silent notes, diminishing sounds in <i>Silent</i> mode
	OFF	Doesn't send key touch data.
Pedal	CONT (default)	Sends continuous pedal data.
	SWITCH	Sends ON/OFF pedal data.

11

Press the [↔] cursor button until the following display appears.

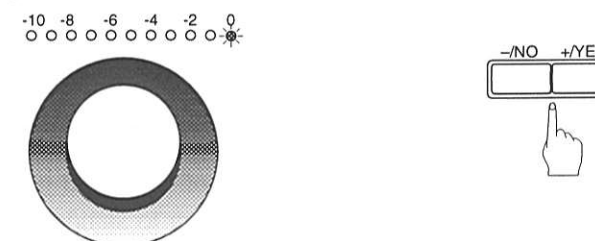


If you did not set a split point, the subsequent displays will be similar to the following.

```
←Out Ch=01
Prg=### Vol▶###
```

12

Press the [↔] cursor button to position the ▸ cursor next to the Out Ch parameter, then use the Dial or the [-/NO] and [+ /YES] buttons to set a value.



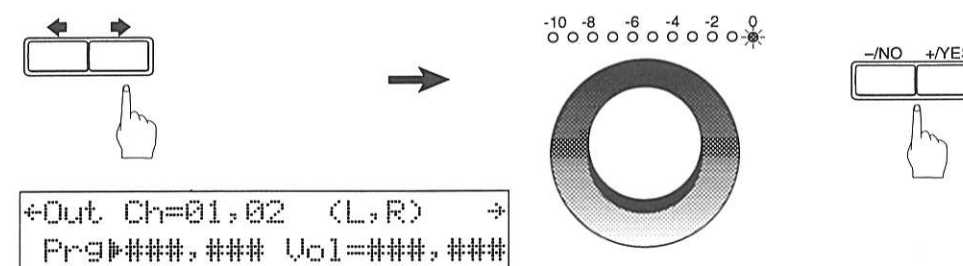
The “Out Ch” option is used to select the MIDI channel/s on which the Disklavier will transmit MIDI data.

It can be set to OFF, MIDI channels 1 to 16 or HP.

Channel	Description
OFF	No data is sent to the MIDI instrument.
1 to 16	The Disklavier keyboard data and pedal data is sent on the selected channel.
HP	Keyboard data and on/off pedal data will be sent on channel 1, and continuous pedal data (half pedal) will be sent on channel 3. In this case the pedal data will be continuously variable (half pedal).

13

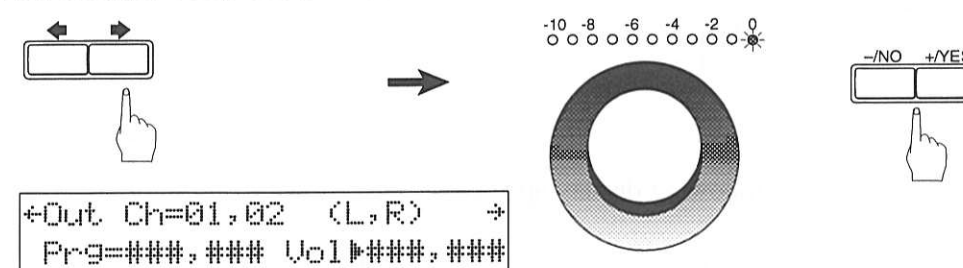
To select a voice for the MIDI output, press the [↔] cursor button to position the ▸ cursor next to the Prg parameter, then use the Dial or the [-/NO] and [+ /YES] buttons to select a voice.



If you had set a split point, you can set different voices for the left- and right-hand parts. A setting of “###” means no voice selection.

14

To set the volume of the MIDI output, press the [↔] cursor button to position the ▸ cursor next to the Vol parameter, then use the Dial or the [-/NO] and [+ /YES] buttons to set the volume.



If you had set a split point, you can set different volume levels for the left- and right-hand piano parts.

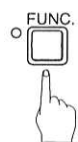
A setting of “###” will not change the volume.

15 Press the [FUNC.] button or the [STOP] button to exit the MIDI setup.

Stripping XP Data

You can strip a song of its XP data and leave only the standard data of notes and pedals when, for example, you want to reduce MIDI data size or when you want to revert the song to standard MIDI format for general purpose.

1 Press the [FUNC.] button.

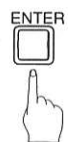


The FUNC. indicator lights and the Functions menu display appears.

```

┌Disk      *MIDI Setup →
└*M-Tune   (+, →, ENT)
  
```

2 With the \blacktriangleright cursor at the Disk option, press the [ENTER] button.



the Disk menu display appears.

```

┌Format    *SongDelete
└*SongCopy *SongSort →
  
```

3 Press the [\blacktriangleleft] button until the following display appears.



4 With the \blacktriangleright cursor at the Strip XP option, press the [ENTER] button.

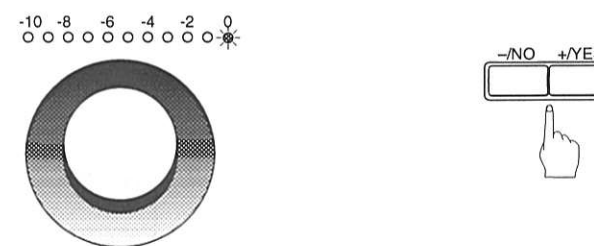


The following display appears.

```

[Strip XP]      (-, +)
┌ 01 PIANO001.FIL (ENT)
  
```

5 Use the Dial or the [-/NO] and [+/YES] buttons to select the song whose XP data you want to strip.



6 Press the [ENTER] button.

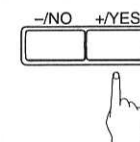


A display similar to the following appears.

```

[Strip XP]      SURE?
┌ 01 PIANO001.FIL (Y/N)
  
```

7 Press the [+/YES] button to strip XP data.



If you do not want to strip XP data, press the [-/NO] button.

8 When Strip XP is completed, the following display appears. Press any button to return to the normal display.

```

COMPLETE
PRESS ANY BUTTON
  
```

XP data is also lost in the following instances:

- When you convert a disk to Piano 1 type disk. See “Converting Disk Type” on (B) page 64.
- When you move a piano part to an ensemble track or vice versa. See (B) Chapter 5, “Editing Tracks”.

Resetting Your Disklavier Pro

See also (B) Chapter 10 “Resetting Your Disklavier”

When you reset your Disklavier Pro, XP mode settings also return to their initial factory settings as shown below.

Parameter	Default setting	Options
XP Mode		
Record	ENHANCED	ENHANCED, XP
KBD Out	ENHANCED	ENHANCED, XP
Receive	AUTO	ENHANCED, XP, AUTO

Chapter 4

Disklavier Pro Specifications

Sensor System	Keys	Continuous-position optical sensors (key speed, depth and release speed sensing) 16-note polyphonic
	Hammers	High-precision optical speed sensors w/dual position (normal/ <i>Silent</i>) shutter
	Pedals	High-precision digital optical position sensors
Drive System	Keys	Servo drive system w/dedicated Yamaha LSI and high-power servo solenoids 16-note polyphonic
	Pedals	Servo-controlled solenoids w/dedicated CPU
Record/Playback Mode	Enhanced, XP	
File Format	E-SEQ, SMF (format 0, 1)	
Data Storage	3.5" 2HD/2DD floppy disks Internal Memory Disk (1 MB)	
Main Control Unit	Detachable, w/suspension bracket 2-line LCD control/display panel LED song # and function indicators 316 × 60 × 209 mm, 2.0 kg (12 1/2" × 2 1/2" × 8 1/4", 4.4 lbs)	
Connectors	MIDI In, MIDI Out To Host, w/selector (MIDI, PC1, PC2, Mac) AUX In, AUX Out Headphones × 2	
Ensemble Tone	Advanced Wave Memory 2 (AWM2) 32-note polyphonic 16-part multi-timbral XG/GM modes 676 normal voices (128 selectable), 21 drum kits (9 selectable) Tunable ±50 cents in 1-cent steps (in unison with digital piano tone)	

<i>Grand Silent System</i>	Activa-tion	Motor-driven hammer shank stopper
	Piano Tone	Digital stereo sampling (CFIIS concert grand) 30MB wave memory 32-note stereo polyphonic Sustain pedal resonance effects
Power Source	Local AC current	
Supplied Accessories	Wireless remote control PianoSoft™ sample disk Blank floppy disk Owner's manuals Control unit suspension bracket HPE-170 headphones	
Optional Accessories	FC-4, FC-5 foot switches FC-7 foot controller	
Playback Functions	L/R part select Song select (Rev/Fwd, song by song; numerical selection) Music search (Rev/Fwd, w/ or w/o sound; direct by time or measure) Repeat (disk, song, segment, random) Auto start, space playback	
Playback Controls	Volume (0 ~ -10) Tempo (-50% ~ +20 %) Transposition (±24 semitones) Piano/ensemble master balance Keyboard, pedal action cancel Pedal count-in	
Recording Functions	16 tracks L/R (split or full keyboard) Quantize, re-record Track edit (mix, move, copy, delete, transpose)	
<i>Silent</i> Controls	<i>Silent</i> on/off button w/pilot lamp Piano tone volume Reverb (3 modes, depth control)	
Metronome	Visual and/or audible (w/volume control) 30 ~ 400 bpm, 1/4 ~ 9/4 time	
Utility Functions	Song copy, sort, delete, XP strip, type convert (SMF, ESEQ), time format convert Disk format, copy, type convert, title entry	

Specifications are subject to change without notice.

Function...	Transmitted	Recognized	Remarks	
Basic Channel	Default Changed	1-16 1-16	1-16 1-16	Memorized
Mode	Default Messages Altered	3 × *****	3 3, 4 (m=1) *2, *3 ×	
Note Number :	True voice	0-127 *****	0-127 0-127	
Velocity	Note ON Note OFF	○ 9nH, v=1-127 ○ 8nH, v=0-127	○ v=1-127 ○	
After Touch	Key's Ch's	○ *5 ×	○ *1, *5 ○ *1, *2	Silent note 127, 0
Pitch Bend		×	○ 0-24 semi *1, *2	
Control Change	0, 1, 5, 10, 32	○	○ *1, *2	Data Entry Hold1 (Sustain) Portament Sostenuto Soft (Shift) Pedal Effect Depth All Sound Off Reset All Cntrls XP Control
	7, 11	○	○ *1	
	6, 38	×	○ *2	
	64	○	○	
	65	×	○ *2	
	66	○ *4	○ *2	
	67	○	○	
	71-74, 84	×	○ *2	
	91, 93, 94	×	○ *2	
	96-101	×	○ *1, *2	
120	○	○		
121	×	○ *2		
16, 81	○	○ *1		
Prog Change : True #		○ 0-127 *****	○ 0-127 *2	
System Exclusive		○	○	
Common	: Song Pos	○ *1	○ *1	
	: Song Sel	○ *1	○ *1	
	: Tune	×	×	
System Real Time	: Clock	○	×	
	: Commands	○ *1	○ *1	
Aux Messages	: Local ON/OFF : All Notes OFF : Active Sense : Reset	× ○ (123) ○ ×	○ ○ (123-127) ○ ×	
<p>Notes *1 = Received (transmitted) if switch is on. *2 = Only "ESBL Part" can recognize. *3 = m is always treated as "1" regardless of its value. *4 = Transmit if this model has a Sostenuto Pedal. *5 = This function enables the Disklavier Pro to transmit and receive the position of the keys including "Silent notes" as independent additional information, instead of continuously transmitting "key aftertouch" data based on key pressure applied after the keys are played.</p>				

Mode 1 : OMNI ON. POLY
Mode 3 : OMNI OFF. POLY

Mode 2 : OMNI ON. MONO
Mode 4 : OMNI OFF. MONO

○ : Yes
× : No

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