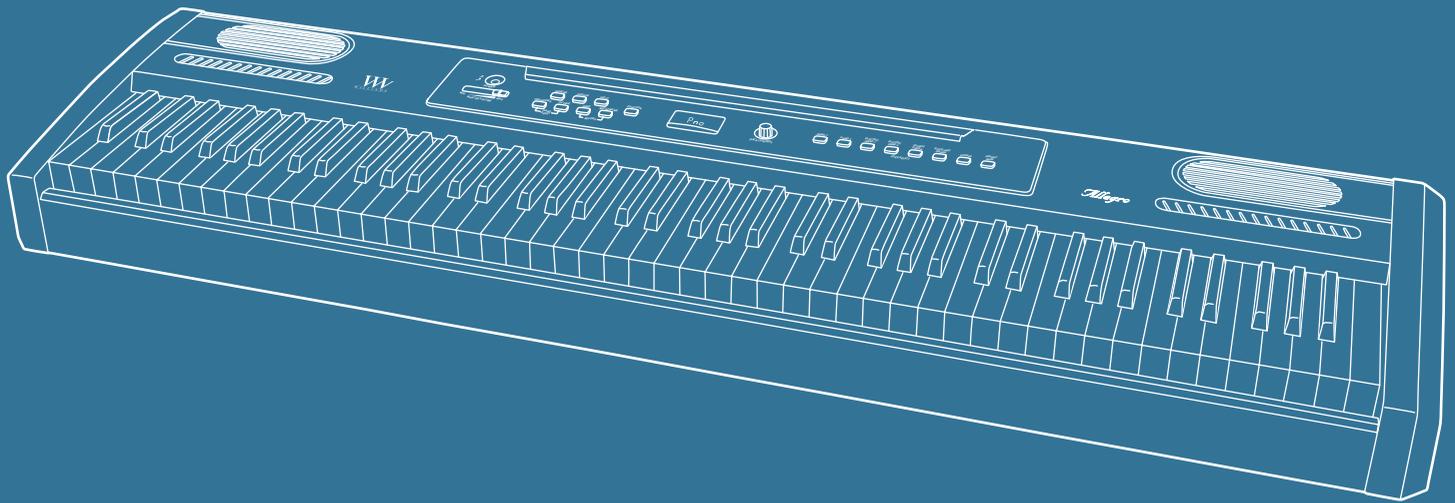




*Williams Allegro Piano
Owner's Manual*



Sound. Style. Value.

Williams Allegro Piano



Digital Piano Owner's Manual



IMPORTANT SAFETY INSTRUCTIONS

Do not use near water.

Clean only with a soft, dry cloth.

Do not block any ventilation openings.

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

Do not remove the polarized or grounding-type plug.

Protect the power cord from being walked on or pinched.

Only use the included attachments/accessories.

Unplug this apparatus during lightning storms or when unused for a long period of time.

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

FCC STATEMENTS

- 1) **Caution:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- 2) **NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.

Williams Allegro Piano

INTRODUCTION

Congratulations! You have just purchased a state of the art digital piano that provides remarkable acoustic sound and feel. We recommend that you read through this owner's manual carefully, so you can get the most enjoyment from your new piano.

Features include:

- 88 weighted, hammer-action, velocity-sensitive keys
- 8 piano & keyboard sounds
- Metronome feature with variable tempo to facilitate practice or recording
- Two-track recorder allowing song recording and playback
- Demo songs corresponding to each voice
- MIDI In/Out connections
- Stereo/mono line out jacks
- Sustain pedal
- Music rest

Unlike an acoustic piano, this digital piano does not need to be tuned.

BEFORE YOU GET STARTED

Shipment

Your piano was carefully packed at the factory, and the packaging was designed to protect the unit from rough handling. Nevertheless, we recommend that you carefully examine the packaging and its contents for any signs of physical damage that may have occurred during transit.

- If the unit is damaged, notify your dealer and the shipping company immediately. Otherwise, claims for damage or replacement may not be honored.
- Always use the original packing carton to prevent damage during storage or transport.
- Make sure that no children are left unsupervised with the piano or its packaging.
- Please ensure proper disposal of all packing materials.

INITIAL OPERATION / QUICK START

Insert the supplied music rest into the two holes on the top panel. Connect the supplied Sustain Pedal to the input marked "sustain" on the connector panel on the back of the piano. Plug the DC power adapter into the rear panel and the power cord into a 110V supply.

NOTE: The power switch should be in the "Off" position and the volume at minimum level when you connect the unit to power.

Turn on the power switch on the left side of the front panel. The LED display will show: **PNO**

Press the Voice Select button for the desired voice.

Adjust the volume control to a comfortable level by sliding the Master Volume control left for softer sound or right for louder sound.

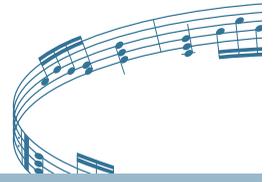


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TAKING CARE OF YOUR DIGITAL PIANO

This Williams Allegro digital piano will supply you with years of musical enjoyment if you follow the suggestions listed below.

Product Servicing

This product should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged.
- Liquid has been spilled into the unit or it has been exposed to rain.
- The instrument does not appear to operate normally or exhibits a marked change in performance.
- The instrument has been dropped or the cabinet has been damaged.
- Please contact support@williams pianos.com for parts and service information.

Handling and Transport

- Never apply excessive force to the controls, connectors or other parts of the instrument.
- Always unplug cables by gripping the plug firmly, not by pulling on the cable.
- Disconnect all cables before moving the instrument.
- Physical shocks caused by dropping, bumping, or placing heavy objects on the instrument can result in superficial or operational damage.
- Carefully check the volume control before playing. Excessive volume can cause permanent hearing loss.

Cleaning

- Clean the cabinet and panel with a soft, dry cloth. Do not use paint thinner or petrochemical based polishes.
- To maintain the luster of the keys and buttons, wipe with a clean, lightly dampened cloth, and then polish with a soft, dry cloth.

Location

- To avoid deformation, discoloration, or more serious damage, do not expose the instrument to the following conditions: Direct sunlight, high temperatures, excessive humidity, excessive dust, strong vibration.
- Leave enough space around the piano for proper ventilation.
- This instrument contains digital circuitry and may cause or be susceptible to interference if placed too close to radio, television receivers, or mobile phones. If interference occurs, move the instrument further away from the affected equipment.
- Avoid placing vinyl objects on top of the instrument, vinyl can stick to and discolor the surface.

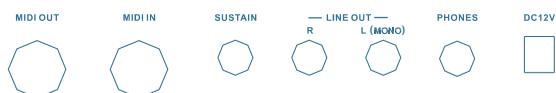
Power

- Turn the power switch off when the instrument is not in use.
- To avoid damage to the instrument and other devices to which it is connected, turn the power switches of all related devices off prior to connection or disconnection of MIDI cables.
- Turn the power off if the main cable is damaged, or the instrument has been exposed to liquid.
- Do not switch the unit on and off in quick succession, as this places an undue load on the electronic components.
- Unplug the DC power adapter during an electrical storm.
- Avoid plugging the DC power adapter into the same AC outlet as appliances with high power consumption, such as electric heaters or ovens.



CONNECTOR PANEL

The connector jacks are located on the rear panel of the piano.



MIDI Out / MIDI In

The Allegro provides MIDI IN and MIDI OUT ports. MIDI jacks allow communication with other products equipped with MIDI interfaces. Please see the MIDI Functions section (pg. 17) of this manual for further details.

Sustain Pedal

The foot pedal included with your Allegro will cause piano key sounds to decay slowly as if they were being held down. A piano-style pedal may optionally be used. The jack will auto-detect the polarity of the sustain pedal.

Stereo/ Mono Line Out

The output jacks supply a line-level signal for external amplification. Use both jacks for stereo or just the Left jack for mono.

Phones

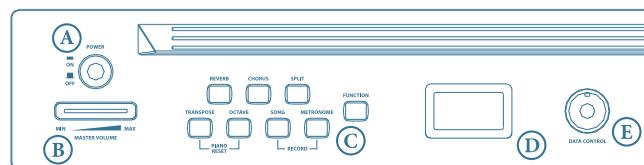
The Phones jack allows playing in silence. When headphones are plugged in, the speakers are mute.

DC 12V Input

Connection for the included DC power adapter. Please use only the provided adapter.

NOTE: After 10 seconds the [DATA CONTROL] knob will revert to its default function of controlling metronome tempo.

PANEL CONTROLS



Ⓐ Power On/Off

Depress the [POWER] button in the upper left corner of the front panel. It will remain in when the power is on and will return to its extended position when the power is off.

Ⓑ Master Volume

Slide the control to the left to lower the speaker volume, or to the right to increase it.

Ⓒ Function

The Function button transfers the Allegro to Edit mode, enabling the modification of the parameters of many features such as touch sensitivity, splits, layers and MIDI control, among others.

Ⓓ LED Display

The LED will display the appropriate status, function, value, voice or mode for the current operation.

Ⓔ Data Control Knob

The [DATA CONTROL] knob changes parameter values for voice, function, volume (0-127), metronome tempo (20-280), reverb/chorus depth (0-127), time signature, transpose value (-12 - +12), octave setting (-3 - +3), Master Tuning setting (-64 - +63), track, MIDI channel/program number and Bank MSB/LSB values (0-127).



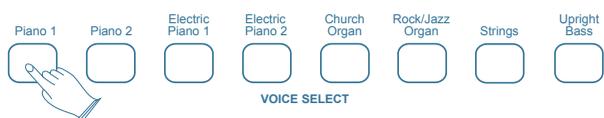
Williams Allegro Piano

Though the [DATA CONTROL] knob may be used to edit a variety of functions on the Allegro, it will always revert to its default function of controlling metronome tempo if left inactive for 10 seconds.

Voices

The Allegro piano has 8 built-in voices, which include several pianos as well as other instruments. These digitally-sampled musical instrument sounds may be selected one at a time, layered to produce two voices at once, or assigned to the left or right hands.

To select a voice, press the appropriate Voice Select button on the right side of the front panel.



The button will light and the LED will indicate the selection as shown below.

Voice	LED
Piano 1 Classical	Pno
Piano 2 Pop	Pn2
Electric Piano 1	EP1
Electric Piano 2	EP2
Church Organ	COOr
Rock/Jazz Organ	Org
Strings	Str
Upright Bass	BAS

Demo Songs

There are 8 demo songs pre-recorded in the Allegro piano. Each demo song will demonstrate a different voice as indicated in the chart below.

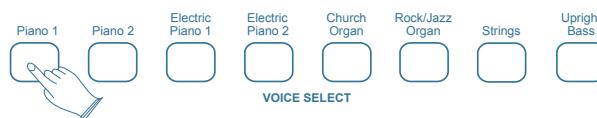
A demo song may be selected for playing by either of two methods:

- ① [DATA CONTROL] Knob: Press the [SONG] button, then turn the [DATA CONTROL] knob until the desired song is displayed in the LED. Press [SONG] again to begin playing. The [SONG] and voice buttons will flash and the LED will display: **DEN**.



During playback, another song may be chosen by pressing a different voice select button.

- ② Voice Select Button: Press the [SONG] button, then press the desired Voice Select button. The [SONG] and voice buttons will flash and the LED will display: **DEN**.



Demo Song #	Voice	LED
1	Piano 1	Pno
2	Piano 2	Pn2
3	Electric Piano 1	EP1
4	Electric Piano 2	EP2
5	Church Organ	COOr
6	Rock/Jazz Organ	Org
7	Strings	Str
8	Upright Bass	BAS

To stop the demo song, press the [SONG] button again. To replay the current song from the beginning, press the flashing voice select button.



Billy Demo List

Piano 1
<ul style="list-style-type: none"> • Chopin Valse Op. 69, no 2 • Improvisation • La Campanella (Etude No. 3) by Franz Liszt
Piano 2
<ul style="list-style-type: none"> • Improvisation • Fur Elise: Ragtime Edition
EP1
<ul style="list-style-type: none"> • Don't get around much anymore by Duke Ellington
EP2
<ul style="list-style-type: none"> • Improvisation
Church Organ
<ul style="list-style-type: none"> • Jesu, Joy of Man's Desiring
Rock/Jazz Organ
<ul style="list-style-type: none"> • Improvisation
Strings
<ul style="list-style-type: none"> • J.S. Bach Air on a G string
Bass
<ul style="list-style-type: none"> • Bass and Piano Jazz Improvisation

The songs will continue to play in sequence, playing Song 1 after Song 8, until the [SONG] button is pressed again.

Reverb

The Reverb effect may be applied to each voice individually and will be retained even when the power is turned off.

To apply reverb, select the desired voice and press [REVERB]. The button will light and the effect will be heard when the piano is played.



To adjust the amount (depth) of the reverb effect, hold the [REVERB] button down while turning the [DATA CONTROL] knob to the desired amount (0-127).

Chorus

The Chorus Effect may be applied to each voice individually and will be retained even when the power is turned off. This effect simulates the same tone coming from multiple sources, like several singers or instruments singing or playing the same note.

To apply the Chorus Effect, select the desired voice and press [CHORUS]. The button will light and the effect will be heard when the piano is played.



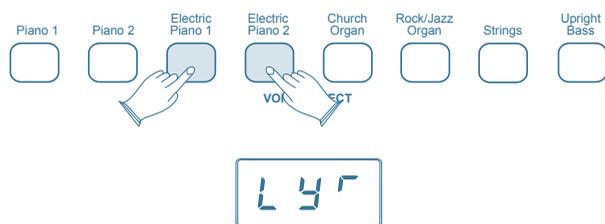
To adjust the amount (depth) of the Chorus effect, hold the [CHORUS] button down while turning the [DATA CONTROL] knob to the desired amount (0-127).

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Layer Mode

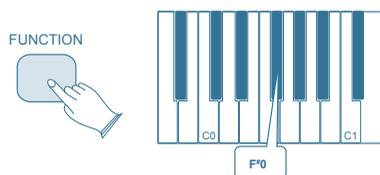
In Layer mode two voices may be played simultaneously, each at selected volumes.

To enter Layer mode, press and hold the button to select the MAIN sound, then press the button for LAYER sound, and release. The buttons will light, the two voices will sound simultaneously and the LED will indicate: **LYR**.



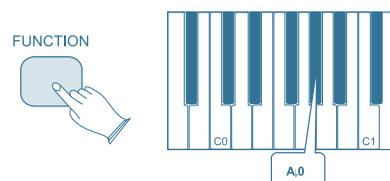
To adjust the volume of the Main voice:

- Press the [FUNCTION] button to enter edit mode.
- Press the Voice Volume key (F#0). The LED will display: **UO1**.
- Turn the [DATA CONTROL] knob to the desired volume (0-127).



To adjust the volume of the Layer voice:

- Press the [FUNCTION] button to enter edit mode.
- Press the Layer Volume key (Ab0). The LED will display: **LYR**.
- Turn the [DATA CONTROL] knob to the desired volume (0-127).



NOTE: If Split Mode (below) is engaged and Layer Mode is selected, the Layer Voice will only be applied to the keys to the right of the split point. The Left Hand Voice will remain specified for Split Mode.

MIDI Considerations

The Main Voice will be transmitted on the selected Main MIDI Transmit Channel. The Layer Voice will be played on the selected MIDI Transmit Channel +2. So if the Main Voice is transmitting on MIDI channel 1, the Layer Voice will be transmitted on MIDI channel 3. For more information, see Main MIDI Transmit Channel in MIDI Functions (pg. 18).

Turn Off Layer Mode

To turn Layer Mode off, select a single voice.

Split Mode

Split Mode allows the keyboard to be divided into two sections so that different voices may be played with the left and right hands.

The volume may be independently adjusted for each voice, the Split Point (the highest note played with the left hand) may be adjusted and the Split Voice may be changed as desired.

Enter Split Mode

Press the [SPLIT] button. The LED will show: **SPL**.

The Split (left hand) voice will be Upright Bass and the Split Point will be B2.





Change the Split Point

Press and hold the [SPLIT] button for 1 second, then press the appropriate piano key.

Change the Split (left hand) voice

Press and hold the [SPLIT] button while depressing the desired Voice Select button.

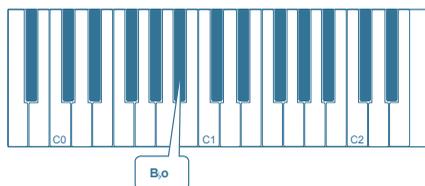
Change the Main (right hand) voice

Exit Split Mode by pressing the [SPLIT] button again, select the appropriate voice and then press [SPLIT] again to re-enter Split mode.



Change the Split volume (left hand)

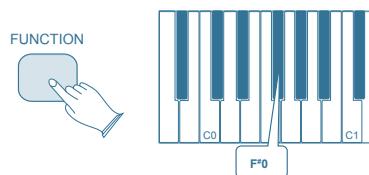
- Press the [FUNCTION] button to enter Edit Mode. Press the B₀ key to assign the [DATA CONTROL] knob to the Split (left hand) Voice Volume function.
- Turn the [DATA CONTROL] knob to the desired value (0-127) while striking any keyboard key to hear the effect.



Change the Split volume (right hand)

- Press the [FUNCTION] button to enter Edit Mode
- Press the F#0 key to assign the [DATA CONTROL] knob to the Main (right hand) Voice Volume. The LED will show: UO1
- Turn the [DATA CONTROL] knob to the

desired value (0-127) while striking any keyboard key to hear the effect.



Turn Off Split Mode

Press the [SPLIT] button. The LED will momentarily display off, then the currently selected voice.



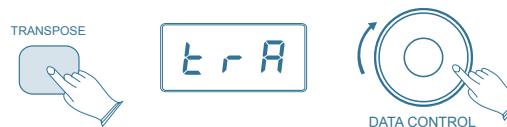
Split Mode MIDI Considerations

The Main (right hand) Voice will transmit on the Main MIDI transmit channel. The Split Voice will transmit on the Main MIDI transmit channel + 1. See MIDI Functions for complete MIDI information (pg. 17).

Transpose

The Transpose function will raise or lower the pitch of the keyboard in semitone increments from -12 to +12.

To turn Transpose on, press the [TRANPOSE] button. The LED will display: TRA. Now use the [DATA CONTROL] knob to select the desired transpose value.



Optionally, the transpose value may be specified by holding down the [TRANPOSE] button and pressing a keyboard key between C2 and C4, thereby selecting the value indicated below:

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C2	C#2	D2	D#2	E2	F2	F#2	G2	
-12	-11	-10	-9	-8	-7	-6	-5	
G#2	A2	A#2	B2	C3	C#3	D3	D#3	
-4	-3	-2	-1	0	+1	+2	+3	
E3	F3	F#3	G3	G#3	A3	A#3	B3	C4
+4	+5	+6	+7	+8	+9	+10	+11	+12

NOTE: The (Transpose/Octave) Button will remain lit while active. To deactivate (Transpose/Octave), simply press the button and the Allegro will return to its default configuration.

Octave

The Octave function will raise or lower the keyboard pitch in octave increments from -3 to +3.

To enable the Octave function, press and hold the [OCTAVE] button. The LED will display: **OCT**. Now use the [DATA CONTROL] knob to select the desired pitch.



NOTE: The (Transpose/Octave) Button will remain lit while active. To deactivate (Transpose/Octave), simply press the button and the Allegro will return to its default configuration.

Metronome

The built-in metronome will help maintain accurate timing while recording a song. The time signature and tempo may be adjusted for the song to be recorded. To turn the metronome on, press the metronome button.



Tempo

The tempo of the metronome may range from 20 to 280 beats per minute (BPM). To change the tempo, simply use the [DATA CONTROL] knob. The LED will now display the desired tempo.



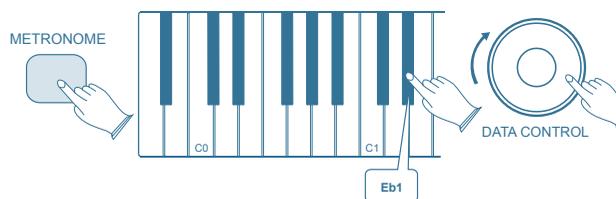
Though the [DATA CONTROL] knob may be used to edit a variety of functions on the Allegro, it will always revert to its default function of controlling metronome tempo if left inactive for 10 seconds.

Specify Metronome Time Signature

Available time signatures are: 2/2, 2/4, 3/4, 4/4, 5/4, 6/8, 7/8, 9/8 and 12/8.

To select the desired time signature:

- Press [FUNCTION] and depress the Metronome Time Signature key (Eb1) on the keyboard. The LED will display: **TS9**.
- Turn the [DATA CONTROL] knob until the desired time signature is indicated in the LED. 4/4 time will appear as 4.4.



NOTE: The tempo and time signature may not be changed during song recording.



SONG RECORDING

The Song Recorder built into the piano can record two individual tracks, allowing you to record one part and then record a second, complementary part while the first part is played back.

To Record a Track

Press the [SONG] button and the [METRONOME] button simultaneously to enter Record Wait Mode. The Song button's LED will light, and the Metronome will begin playing at the currently selected tempo.

The LED display will show: **REC** for one second, after which it will show: **TR1**.



The piano is now in Record Wait Mode. To start recording, begin playing the keyboard. Recording starts automatically as soon as you start playing.



NOTE: When Record Wait Mode is active, you can also start recording by pressing the Song button. In that case, the Song Recorder will record silence until you start playing the keyboard.

To end recording, press the [SONG] button.



Repeat to record track 2. Recording will begin when the first key is pressed.

As mentioned at the beginning of this section, you can record to two independent tracks within each song you record. This means that you can make a recording, and after you're done, play back what you

recorded while recording a complementary part on a second track. The Allegro automates some of the track selections to make the Song Recorder more intuitive:

When you start recording, if data has already been recorded on track 1, the LED display will show: **TR2**, and the Song Recorder will record on this track.

During recording, any notes already recorded on the other track will be played back. If you are recording on track 2, anything previously recorded on track 1 will be played back for you.

If tracks 1 and 2 both contain data, this piano will automatically choose to record to the track that was NOT last recorded to. (If your last recording was on track 1, track 2 will be selected; if your last recording was on track 2, track 1 will be selected.)

To Manually Select a Track to Record to:

Press the [SONG] button and the [METRONOME] button simultaneously to enter Record Wait Mode.



Turn the [DATA CONTROL] knob to select between track 1 and track 2.

If either of the tracks contains recorded data, the display will show a dot "." in the bottom right hand corner: **TR1.**, **TR2.**



You will also see options for Clear (abbreviated **CLR**) and Cancel (abbreviated **CAN**), which you can ignore for the moment. These will be discussed later in this section.

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When the LED display shows the track you wish to record to, you may begin playing whenever you are ready, and recording will automatically begin as soon as you play the first note.

To Cancel Recording While in Record Wait Mode:

Turn the [DATA CONTROL] knob until the LED display shows: CAN.



Press the [SONG] button.

Record Wait Mode will exit, and the keyboard will be back in Performance Mode, with no changes to the contents of either track 1 or track 2.



To Erase a Single Track in the Song Recorder:

Press the [SONG] button and the [METRONOME] button at the same time to enter Song Recording Mode.



Use the [DATA CONTROL] knob to select the track you wish to erase.



Press the [SONG] button twice.

The track will be erased, and this piano will be back in Performance Mode.



To Change Metronome Tempo While in Record Wait Mode:

The metronome tempo can be adjusted while in Record Wait Mode by pressing and holding the [METRONOME] button and using the [DATA CONTROL] knob to select the desired value. However, the metronome tempo can not be adjusted during recording.



To Turn Off the Metronome While Recording:

Press the [METRONOME] button, and the metronome will stop while recording continues. Pressing the [METRONOME] button again will turn the metronome on again. Note that the metronome can also be turned on and off in the same way while in Record Wait Mode, before recording commences.



To Clear all Data in the Song Recorder:

Press the [SONG] button and the [METRONOME] button at the same time to enter Song Recording Mode. This will start the Metronome and place the Song Recorder in Record Wait.

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Turn the [DATA CONTROL] knob until the LED displays: **CLR**.



Begin playing the keyboard. All previously recorded data on tracks 1 and 2 will be cleared, and the notes you are now playing will be recorded on track 1.



To clear all data on tracks 1 and 2 without recording anything new, after step 2, press the Song button twice.



You will then be back in Performance Mode, with all data cleared from the Song Recorder.

NOTE: the Clear function always erases recorded notes from both tracks. For instructions on how to erase data from only one of the two tracks, please read the earlier section, To Erase a Single Track in the Song Recorder.

To Play Back Your Song Recorder Tracks:

From Performance Mode, press the [SONG] button to enter Song Play Mode.



Use the [DATA CONTROL] knob to select one of the following:



SNG: Playback of both of the Song Recorder tracks simultaneously.

TR1: Playback of Song Recorder track 1.

TR2: Playback of Song Recorder track 2.

Press the [SONG] button to start playback.

While the Song is playing, the LED display will show: **PLY**.



NOTE: If there is nothing recorded on either of the tracks (1 or 2), then the Song will not play. Rather, the Song LED will flash 3 times quickly, and the piano will exit Song Play Mode and resume Performance Mode, with the LED display showing the currently selected voice.

To Stop Playback and Exit Song Play Mode:

Press the Song button. Song playback will stop, and the piano will exit Song Play Mode and resume Performance Mode with the LED display showing the currently selected voice.



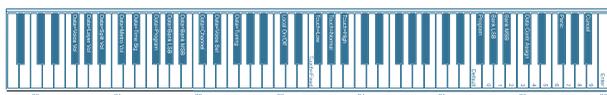
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EDIT FUNCTIONS

In Edit Mode, the function of the [DATA CONTROL] knob is changed to specify a number of different values. The [DATA CONTROL] knob will "time out" after 10 seconds and return to default metronome tempo.

Keyboard control keys are used to select the function upon which the [DATA CONTROL] knob will have an effect.

Use of Function Key



Please refer to the appropriate sections earlier in this manual for proper use of the [DATA CONTROL] knob when editing the Metronome, Layer, Split, Transpose and Octave functions of the Allegro.

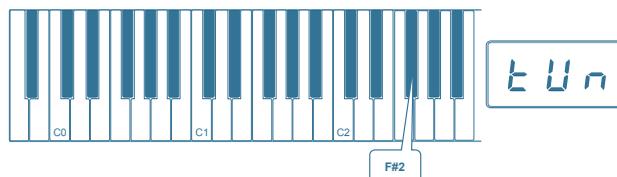
Master Tuning

The Allegro is tuned to A440 when the power is turned on and does not require tuning. However, if desired, in order to play along with other instruments or recordings that are tuned differently, the tuning may be adjusted in semitone increments from -64 to +63 (One full tone).

To change the Master Tuning:

- Press the [FUNCTION] key to enter Edit Mode
- Press the F#2 key to select the [DATA CONTROL] knob to the Master Tuning Function. The LED will show: **TUN**.
- Turn the [DATA CONTROL] knob to the desired value (-64 - 63).

NOTE: Master tuning must always be manually adjusted back to -0-.



Touch (Sensitivity)

The Touch Select function allows the choice of 4 sensitivity settings or velocity curves which determine how the force with which you hit the keys affects the volume of the notes played. This piano provides you with four different keyboard sensitivity options:

Normal (A,3 key): This is the default setting and should work well for most players who play with an average amount of force. When selected, the LED display shows: **NOR**.

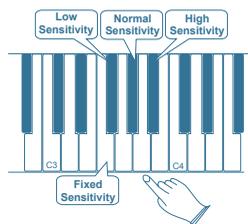
Low (F#3 key): This setting generates lower velocity values for the same force and is useful for playing more quietly, even with a heavy touch. When selected, the LED display shows: **LO**.

High (B,3 key): The high setting generates higher velocity values for the same force and is useful for playing more loudly, even with a light touch. When selected, the LED shows: **HI**.

Fixed (F3 key): This setting effectively disables sensitivity control. The keyboard will generate a fixed velocity value of 100 (on a scale of 0-127) regardless of how hard or soft you play. When selected, the LED display shows: **FO**.

To Set the Keyboard Sensitivity:

Depress the [FUNCTION] button to enter Edit Mode. Press the desired Touch Select key (Ab3, F#3, Bb3, F3). The LED display will show the selected touch setting.



Key locations are illustrated in a larger format in Appendix B: Advanced Functions Keyboard Chart (pg. 28)

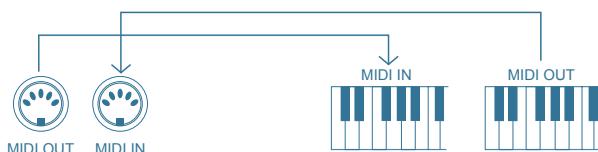
MIDI FUNCTIONS

The Musical Instrument Digital Interface (MIDI) is an industry-standard protocol that enables electronic musical instruments such as keyboards, computers, drum machines, etc. to communicate, control, and synchronize with each other. MIDI transmissions consist of electronic codes that communicate notes to be played, the instrument, pitch or intensity that notes are to be played with, and controlling codes such as volume, vibrato, cues and clock signals.

The Allegro has several functions that facilitate its use as a MIDI device or controller.

MIDI Connections

Connect the Allegro to other MIDI-capable devices as required.



MIDI Channels

The MIDI system in the Allegro has 16 channels numbered from 1-16. Each of the channels is

responsible for a voice. When the instrument receives MIDI information from an external device, the active channel is determined by the control message.

The transmission channels are fixed as follows:

Channel 1	Master voice (keyboard)
Channel 2	Layer voice (keyboard)
Channel 3	Split voice (keyboard)
Channel 4	Track 1, playback, Master Voice
Channel 5	Track 1, playback, Layer Voice
Channel 6	Track 2, playback, Master Voice
Channel 7	Track 2, playback, Layer Voice
Channel 8	Track 3, playback, Master Voice
Channel 9	Track 3, playback, Layer Voice

Multitimbral Mode

The Allegro is able to receive MIDI information on up to 16 channels simultaneously. If you plan to use your piano with a multitrack MIDI recording system, you can record up to 16 different parts using the Williams Allegro voices, each played back individually on different MIDI channels. To ensure your recorded part is played back with the correct voice make sure to press the voice button first and play your part second.

NOTE: Because the Allegro is receiving playback information via MIDI, the currently selected voice on the piano may not correspond to the voice being played back.

Local On/Off

Turning the Local On/Off function to “Off” will disconnect the keyboard from the internal sound engine of the piano. The Allegro may then be used as a MIDI controller to control other MIDI devices or virtual instrument software running on a computer, without playing the sounds on the piano. Additionally, it may be desirable to turn local playing off for other requirements such as when using MIDI sequencing software on your computer.

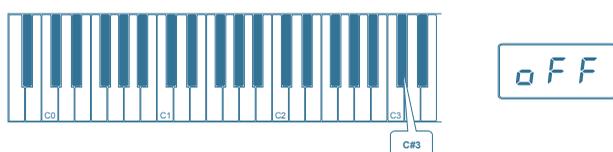
Williams Allegro Piano

Turn Local On/Off to Off

- Press the [FUNCTION] key to enter Edit Mode
- Press the Local On/Off key (C#3). The LED display will show: **OFF**.

Turn Local On/Off to On

Repeat the above procedure. The LED display will show: **ON**.

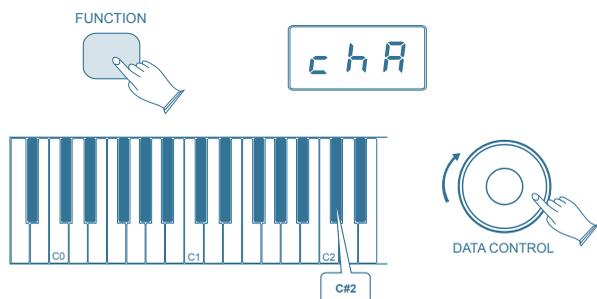


Main MIDI Transmit Channel (C#2)

The main MIDI transmit channel number may be changed as necessary by increasing or decreasing the channel number.

Change the Main MIDI Transmit Channel

- Press the [FUNCTION] button to enter Edit Mode.
- Press the MIDI Transmit Channel Key (C#2) to set the [DATA CONTROL] knob to increase or decrease the Main MIDI Transmit channel number. The LED Display will momentarily show: **CHA**.
- Use the [DATA CONTROL] knob to select the desired Main MIDI Transmit Channel.



NOTE: The MIDI channels used for the Split and Layer voices are relative to the Main MIDI Transmit Channel, in the following ways:

*Split Voice Transmit Channel:
Main MIDI Transmit Channel +1*

*Layer Voice Transmit Channel:
Main MIDI Transmit Channel +2*

Numeric Data Entry Keys

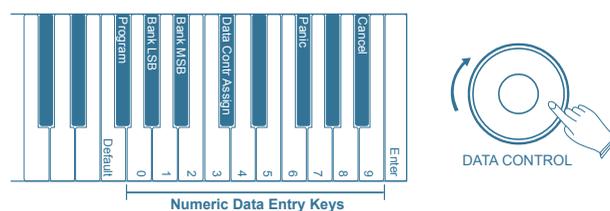
(G5,A5,B5,C6,E6,F6,G6,A6,B6)

Several of the advanced MIDI editing functions of this piano require that a numeric value be entered. This may be accomplished using the Numeric Data Entry Keys.

Functions requiring numeric input include:

- Program Change
- Bank MSB
- Bank LSB
- [DATA CONTROL] Assign

These features are discussed below.

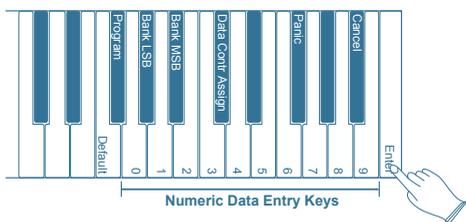


NOTE: If preferred, the [DATA CONTROL] knob may also be used to scroll to the desired numeric value, instead of using the Numeric Data Entry Keys.

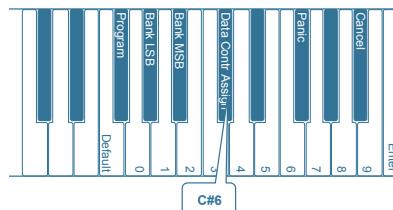


Enter Key (C7)

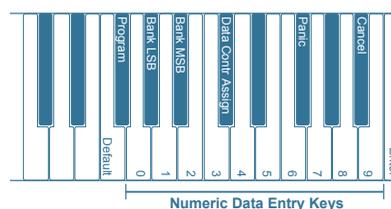
When entering data in Edit Mode, pressing the Enter key will cause the selected data to be sent to this piano as a MIDI command. After pressing the Enter key, the Allegro will return to Performance Mode.



Press the [DATA CONTROL] Assign key (C#6).

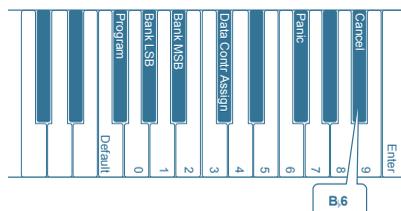


Using the Numeric Data Entry keys, select the Continuous Controller number you wish to assign to the [DATA CONTROL] knob.



Cancel Key (B_b6)

Pressing the Cancel key at any time while in Edit Mode will exit Edit Mode and return the Allegro to Performance Mode. Settings will remain unchanged.



Press the ENTER key (C7).

The Allegro is now back in Performance Mode and [DATA CONTROL] knob may be used to send values for the Continuous Controller (CC) number assigned to the [DATA CONTROL] knob.



Data Control Assign Key (C#6)

Pressing the [DATA CONTROL] Assign key while in Edit Mode will allow you to send MIDI Continuous Controller command values using the Data Control knob.

To assign the [DATA CONTROL] knob to send MIDI Continuous Controller command values:

Press the [FUNCTION] button to enter Edit Mode.



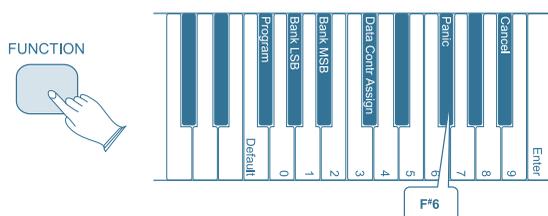
Panic Key (F#6)

Pressing the Panic key will send out “Reset All Controllers” and “All Notes Off” MIDI messages on ALL MIDI Channels (1 – 16). This can be especially useful for clearing “stuck notes” when controlling external MIDI devices or software.

To send the messages, press the [FUNCTION] button to enter Edit Mode.

Press the Panic Key (F#6).

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NOTE: The Piano Reset procedure described under Panel Controls also sends out “Reset All Controllers” and “All Notes Off” MIDI messages, but on MIDI Channel 1 only.

Default Key (F5)

The Default Key will reset any one of the following Edit Mode parameters to its default value:

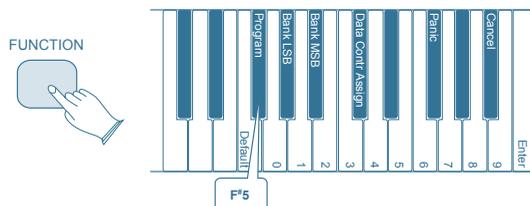
- Program (F#5)
- Bank LSB (A_b5)
- Bank MSB (B_b5)
- Data Ctrl Assign (C#6)

When the Default Key is applied to Program, Bank MSB, or Bank LSB, those parameters will be returned to their default value of zero. When the Default Key is applied to the Data Ctrl Assign parameter, the [DATA CONTROL] knob will be returned to its default function of “Metronome Tempo.”

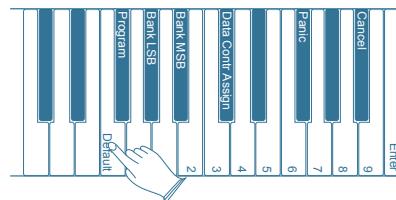
To apply the Default Key, press the [FUNCTION] button to enter Edit Mode.

Press the special function key for the Edit Mode parameter you would like to return to its default value.

This example will use the Program parameter.



Press the Default Key (F5).



Once you have pressed the Default Key, the Allegro will automatically be back in Performance Mode, with the selected Edit Mode parameter returned to its default value.

NOTE: While in Edit Mode, if you happen to press the Default Key without first choosing an Edit Mode parameter, the Allegro will be returned to Performance Mode, with no other changes.

To clear all battery backed memory and restore all functions to their factory defaults, follow the Factory Reset procedure described in Appendix C: Piano Resets (pg. 29).

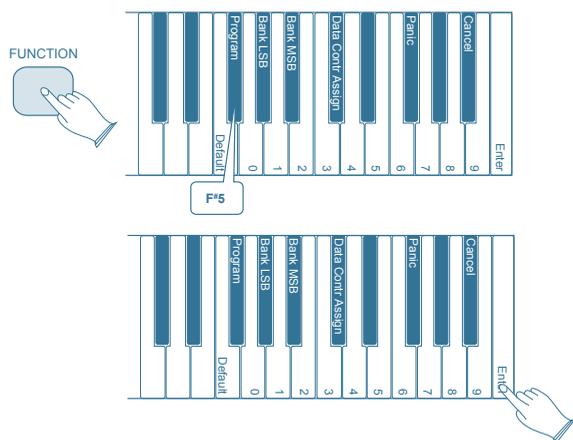
A complete listing of default values for all functions may be found in Appendix A: Default Settings (pg. 26).

Sending MIDI Program Changes

There are two ways to send MIDI Program Number changes. You may either send a single specific Program Number or assign the [DATA CONTROL] knob to send MIDI Program Changes.

To send a single specific Program Number, [DATA CONTROL] knob assignment remains unchanged:

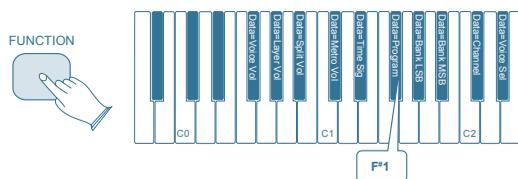
- Press the [FUNCTION] button to enter Edit Mode.
- Press the Program Key (F#5).
- Using the Numeric Data Entry keys, enter the MIDI Program Number you want to send.
- Press the Enter Key (C7) to send the MIDI command.



To assign the [DATA CONTROL] knob to send MIDI Program Changes:

Press the [FUNCTION] button to enter Edit Mode.

Press the Program Number [DATA CONTROL] Key (F#1) The LED display will momentarily show: **PGN**.



The Allegro is back in Performance Mode, and the [DATA CONTROL] knob has been assigned so that a MIDI Program Change will be sent out each time the knob is turned.

The LED display will show the currently selected MIDI Program Number (0 - 127).

NOTE: This is different than the Program Key (F#5) that you used to input a single MIDI Program Number value.

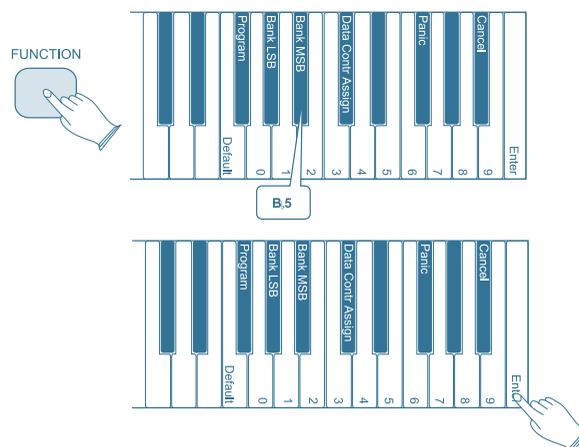
Sending Bank MSB Changes

There are two ways to send Bank MSB changes. You may either enter a specific MSB (Most Significant Byte) value using the Numeric Data Entry Keys, or you may assign the [DATA CONTROL] knob to send Bank MSB changes.

NOTE: After any kind of bank message, it is usually necessary to follow up with a MIDI Program Change message in order to affect a sound change on the receiving device.

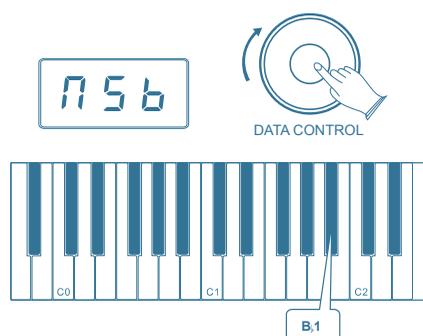
To Send a Specific Bank MSB Value Using the Numeric Data Entry Keys:

- Press the [FUNCTION] button to enter Edit Mode.
- Press the Bank MSB Key (B,5).
- Using the Numeric Data Entry keys, enter the Bank MSB value you want to send.



- Press the Enter Key (C7) to send the MIDI command.
- To assign the [DATA CONTROL] Knob to Send Bank MSB Changes:
- Press the [FUNCTION] button to enter Edit Mode.
- Press the Bank MSB [DATA CONTROL] Key (B,1). The LED display will momentarily show: **NSB**.

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The Allegro is now back in Performance Mode and the [DATA CONTROL] knob has been assigned to send Bank MSB values.

NOTE: this is different than the Bank MSB Key (B,5) that you used to input a single Bank MSB value.

A MIDI Bank MSB change will be sent out each time the [DATA CONTROL] knob is turned. (See the section on MIDI Functions for more information.)

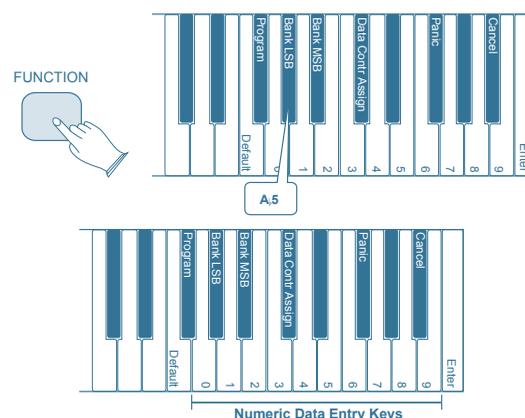
The LED display will show the Bank MSB value (between 0 and 127) as you turn the knob.

Sending Bank LSB Changes

There are two ways to send Bank LSB changes. You may either enter a specific LSB (Least Significant Byte) value using the Numeric Data Entry Keys, or you may assign the [DATA CONTROL] knob to send Bank LSB changes. (Please note that after any kind of bank message, it is usually necessary to follow up with a MIDI Program Change message in order to affect a sound change on the receiving device.)

To Send a Specific Bank LSB Value [DATA CONTROL] knob assignment remains unchanged):

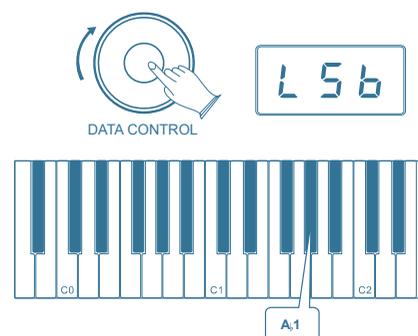
- Press the [FUNCTION] button to enter Edit Mode.
- Press the Bank LSB Key (A,5).
- Using the Numeric Data Entry keys, enter the Bank LSB value you want to send.



- Press the Enter Key (C7) to send the MIDI command.

To assign the [DATA CONTROL] Knob to Send Bank LSB Changes:

- Press the [FUNCTION] button to enter Edit Mode.
- Press the Bank LSB [DATA CONTROL] Key (A,5).
- The LED display will momentarily show: **LSB**.



The Allegro is now back in Performance Mode and the [DATA CONTROL] knob has been assigned to send Bank MSB values.

NOTE: This is different than the Bank LSB Key (A,5) that you used to input a single Bank LSB value.

A MIDI Bank LSB change will be sent out each time the [DATA CONTROL] knob is turned.

The LED display will show the Bank LSB value (between 0 and 127) as you turn the knob.



MIDI IMPLEMENTATION CHART

Function		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1 1 - 16*	1 1 - 9	*Up to 3 channels simultaneously
Mode	Default Messages Altered	Mode 3 Yes *****	Mode 3 No No	
Note Number	True Voice	0~127 *****	0~127	
Velocity	Note ON Note OFF	Yes Yes	Yes Yes	
After Touch	Keys Channels	No No	No No	
Pitch Bend		No	Yes	
Control Change		0-127	0,1,5,6,7,10,11,32,64,65,66,67,80,81,91,93,100,101,121	
Program Change	True #	0~127 *****	0-7*	* 8 sounds only on Allegro, PFM= 0-7
System Exclusive		Yes*	Yes*	*The controller will recognize and respond to GM Device inquiries. Master Tune / Master Volume supported.
System Common	Song Position Pointer Song Selection Time Request	No No No	No No No	
System Real Time	Clock Commands	No No	No No	
Aux Messages	All Sounds Off* Reset All Controllers Local ON/OFF* ALL Notes OFF Active Sensing System Reset	Yes Yes Yes Yes No No	Yes Yes Yes Yes Yes Yes	* The controller will respond to GM, but not Allegro voices.

MIDI Channel Modes		
	POLY ON	MONO ON
OMNI ON	MODE 1	MODE 2
OMNI OFF	MODE 3	MODE 4

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DATA CONTROL ASSIGNMENTS

CC no.	Controller Name	Display Name	Default Value
	Tempo	20~280	120
	Octave		
	Transpose		
	Voice Select (same as CTRL 7 below)		
	Layer Volume		
	Split Volume		
	Metronome Volume		
	Time Signature		
	Program Change		
	Bank Change LSB		
	Bank Change MSB		
	MIDI Transmit Channel		
	Voice Select		
	Master Tune		
0	0 Bank Select (coarse)	000	0
1	1 Modulation Wheel (coarse)	001	0
2	2 Breath controller (coarse)	002	0
3		003	0
4	4 Foot Pedal (coarse)	004	0
5	5 Portamento Time (coarse)	005	0
6	6 Data Entry (coarse)	006	0
7	7 Volume (coarse)	007	127
8	8 Balance (coarse)	008	0
9		009	0
10	10 Pan position (coarse)	010	64
11	11 Expression (coarse)	011	127
12	12 Effect Control 1 (coarse)	012	0
13	13 Effect Control 2 (coarse)	013	0
14		014	0
15		015	0
16	16 General Purpose Slider 1	016	0
17	17 General Purpose Slider 2	017	0
18	18 General Purpose Slider 3	018	0
19	19 General Purpose Slider 4	019	0
20-31		020,021,022...031	0
32	32 Bank Select (fine)	032	0
33	33 Modulation Wheel (fine)	033	0
34	34 Breath controller (fine)	034	0
35		035	0
36	36 Foot Pedal (fine)	036	0
37	37 Portamento Time (fine)	037	0
38	38 Data Entry (fine)	038	0
39	39 Volume (fine)	039	127
40	40 Balance (fine)	040	0
41		041	0

Shaded Areas: Not available on this model.

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CC no.	Controller Name	Display Name	Default Value
42	42 Pan position (fine)	042	0
43	43 Expression (fine)	043	127
44	44 Effect Control 1 (fine)	044	0
45	45 Effect Control 2 (fine)	045	0
46-63		046,047,048...063	0
64	64 Hold Pedal (on/off)	064	0
65	65 Portamento (on/off)	065	0
66	66 Sostenuto Pedal (on/off)	066	0
67	67 Soft Pedal (on/off)	067	0
68	68 Legato Pedal (on/off)	068	0
69	69 Hold 2 Pedal (on/off)	069	0
70	70 Sound Variation	070	64
71	71 Sound Timbre	071	64
72	72 Sound Release Time	072	64
73	73 Sound Attack Time	073	64
74	74 Sound Brightness	074	64
75	75 Sound Control 6	075	0
76	76 Sound Control 7	076	0
77	77 Sound Control 8	077	0
78	78 Sound Control 9	078	0
79	79 Sound Control 10	079	0
80	80 General Purpose Button 1 (on/off)	080	0
81	81 General Purpose Button 2 (on/off)	081	4
82	82 General Purpose Button 3 (on/off)	082	2
83	83 General Purpose Button 4 (on/off)	083	0
84-90		084,085,086...090	0
91	91 Effects Level	091	40
92	92 Tremolo Level	092	0
93	93 Chorus Level	093	0
94	94 Celeste Level	094	0
95	95 Phaser Level	095	0
96	96 Data Button increment	096	0
97	97 Data Button decrement	097	0
98	98 Non-registered Parameter (fine)	098	127
99	99 Non-registered Parameter (coarse)	099	127
100	100 Registered Parameter (fine)	100	127
101	101 Registered Parameter (coarse)	101	127
102-119		102,103,104...119	0
120	120 All Sound Off	120	0
121	121 All Controllers Off	121	0
122	122 Local Keyboard (on/off)	122	0
123	123 All Notes Off	123	0
124	124 Omni Mode Off	124	0
125	125 Omni Mode On	125	0
126	126 Mono Operation	126	0
127	127 Poly Operation	127	0

Shaded Areas: Not available on this model.

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APPENDIX A

Default Settings

The table below shows the piano factory default settings and whether or not user changes to these settings are retained after a power-cycle (turning the device off and on).

Parameter	Factory Default	Retained on Power-Down
Program Number & Voice Selected	000 - Grand Piano	No
Bank MSB Number	000	No
Bank LSB Number	000	No
Main MIDI Transmit Channel	Channel 1	No
Octave shift	0	No
Transpose	0	No
Local	On	No
[DATA CONTROL] Assignment	Data = Tempo	Yes
Reverb On/Off	Reverb On	Yes - store for each sound
Reverb Depth	Defaults for each sound	Yes - store for each sound
Chorus On/Off	Chorus Off	Yes - store for each sound
Chorus Depth	Defaults for each sound	Yes - store for each sound
Velocity Curve Selected	NORMAL	Yes
Split Point	B2	Yes
Voice Volume	127	No
Layer Volume	100	Yes
Split Volume	127	Yes
Metronome Volume	127	Yes
Master Tune	0	Yes
Tempo	120	Yes
Layer Mode Voice	n/a	n/a
Split Mode Voice	8 - Upright Bass	Yes
Layer Mode On/Off	Off	No
Split Mode On/Off	Off	No

At power-on, the following MIDI data will be sent to the sound engine, the USB MIDI and the MIDI Out:

1. Bank Change MSB=0, LSB=0, PGM=0 - set sound engine to piano voice
2. Reverb default value



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Additional Default Information

Effects Defaults

PGM	Sound Name	Reverb On/Off	Reverb Depth	Chorus On/Off	Chorus Depth
0	Grand Piano	On 40	40	Off	64
1	Bright Piano	On 40	40	Off	64
2	Vintage EP	On 40	40	Off	64
3	FM EP	On 48	48	Off	64
4	Church Organ	On 96	96	Off	64
5	Harpsichord	On 40	40	Off	64
6	Strings	On 64	64	Off	64
7	Upright Bass	On 32	32	Off	64
MIDI Channel 10	(Metronome) Off	n/a 0	0	Off	64

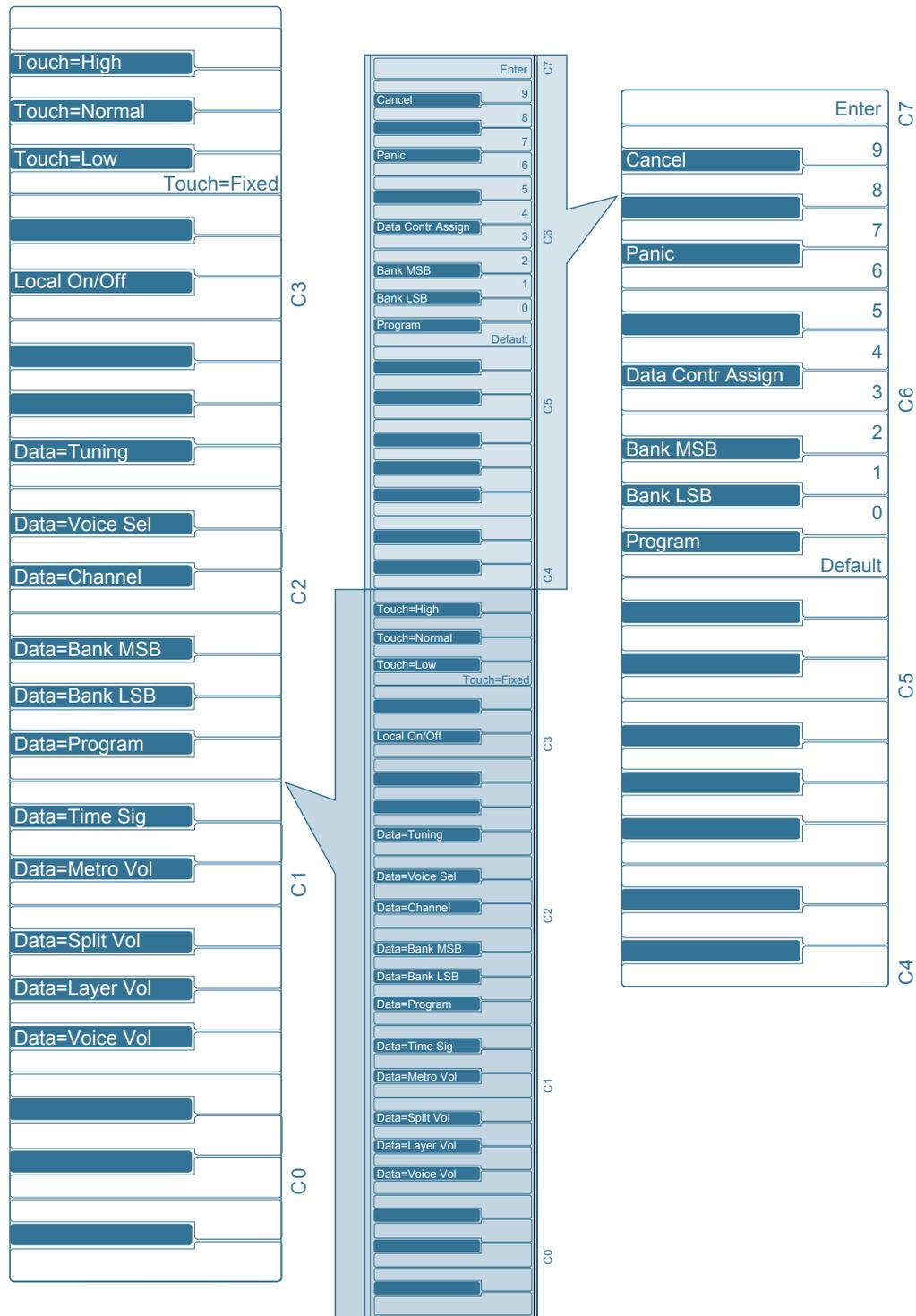
Other Defaults

Parameter	Default	Value Range
Octave Shift	0	-3 to +3
Transpose	0	-12 to +12
Voice Vol	127	0 to 127
Layer Vol	90	0 to 127
Split Vol	127	0 to 127
Metronome Vol	127	0 to 127
Tempo	120	20 to 280 bpm
Program	0	0 to 127
Bank LSB	0	0 to 127
Bank MSB	0	0 to 127
Channel	1	1 to 16
Voice Select	1 (Grand Piano)	1 to 8 (display shows Voice names)
Tuning	440 Hz (display shows 0)	-64 (-50 cents) to 63 (+50 cents) in 128 MIDI steps

NOTE: 1 tone = 100 cents, therefore -50 to +50 cents, or -1 semi-tone to +1 semi-tone equals one full tone. This is represented in MIDI steps -64 to 63.

APPENDIX B

Advance Functions Keyboard Chart



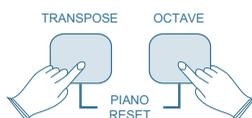


APPENDIX C

Piano Resets

Piano Reset

Activating the Piano Reset function (pressing the [TRANSCOPE] and [OCTAVE] buttons simultaneously), will perform the following functions:

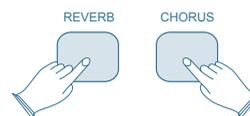


- Turn Local On
- Send “All Notes Off” command on MIDI Channel 1 - external and to the internal sound engine
- Send “Reset All Controllers” command on MIDI Channel 1 - external and to the internal sound engine
- Assign [DATA CONTROL] to Voice Volume
- Set Volume levels for Main Voice, Split Voice and Layer Voice to defaults
- Set Pan to 64 for Main Voice, Split Voice and Layer Voice
- Turn off Layer Mode and Split Mode
- Set Main MIDI Transmit Channel to 1
- Set Transpose and Octave Shift both back to zero
- Send a Program Change = 0 on Channel 1
- Send a Bank Change MSB = 0 and Bank ChangeLSB = 0 on Channel 1
- Set the Reverb Depth back to the default value for the Default Voice
- Send Chorus Depth = 0 on Channel 1
- Send the current status of the Sustain Pedal on Channel 1

Factory Reset

Performing a Factory Reset will clear all battery backed memory and restore all functions to factory defaults.

Please note that anything you have recorded in the Song Recorder will be erased by this procedure!



- Turn the Power Off.
- Hold down the [REVERB] and [CHORUS] buttons while powering on the piano (The LED Display will light ALL segments and all LEDs on the device will light).
- Release the [REVERB] and [CHORUS] buttons.

The Allegro will return to Performance Mode (ready-to-play). All button LEDs will return to their default state.

The LED Display will show the version number of the firmware (internal operating software) for 2 seconds and then return to showing the Voice Name (Grand Piano): **PNO**.

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APPENDIX D

Specifications

Specification	Value
Keyboard	88 weighted, hammer-action, velocity-sensitive keys
Display	LED
Voices	8
Polyphony	64
Voice Control	Layer, Touch, Trans, Split, Metro
Pedals	1 – Sustain
Demo Songs	8
Song Recording	Two track, 10,000 notes per track
MIDI	Transmit Settings, Local Control
Connectors	MIDI In/Out, Sustain Pedal, Line Out (L/R), Phones
Speakers	2 - YDT816 (4Ū*10W)
Dimensions (WxHxD)	1143mm x 515mm x 310mm, 45" x 20.27" x 12.2"
Weight	17.2kg, 38.10lbs.
Supplied Accessories	Owners Manual, DC Power Adapter, Music Stand



WARRANTY

1 Year Parts & Labor Warranty

Williams provides the following limited warranty, to the original purchaser: this piano is warranted to be free from electronic and/or structural defects in materials and workmanship for a period of one (1) year from the date of original purchase. If this Williams piano is defective, at its option during the warranty period, subject to the terms of this limited warranty and upon proof of purchase, Williams will either repair or replace the listed piano with a same or similar model of equal age or newer. Any repairs or modifications must be completed by Williams and/or an authorized agent of Williams. The warranty obligations as set forth herein shall be performed free of charge with the exception of all delivery and shipping expenses. This limited warranty will not apply to this product in the case of misuse, abuse, neglect, alterations, normal wear and tear or other circumstance not directly attributed to electronic and/or structural defects in materials or workmanship. Without limiting the foregoing, this limited warranty will also be inapplicable to products that have not been maintained or replaced in accordance with the manufacturer's instruction, or to products from which the serial number has been removed or altered. If covered defects are found, contact your authorized Williams dealer with regard to the alleged defect within ten (10) days of discovery of the problem.

The foregoing repair or replacement obligation for defective products shall be the sole and exclusive remedy of this limited warranty. All warranties including, but not limited to, the express warranty and the implied warranties of merchantability and fitness for a particular purpose are limited to the one (1) year warranty period. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you. There are no express warranties beyond those stated here. In the event that applicable law does not allow the limitation of the duration of the implied warranties to the warranty period, then the duration of the implied warranties shall be limited to as long as is provided by applicable law. No warranties apply after that period.

Retailer and manufacturer shall not be liable for damages based upon inconvenience, loss of use of product, loss of time, interrupted operation or commercial loss or any other incidental or consequential damages including but not limited to lost profits, downtime, goodwill, damage to or replacement of equipment and/or property.

Register online at www.williams pianos.com



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