

YAMAHA

ELECTRONIC PIANOS

pf80
pf70



THE VIBRANT YAMAHA FM PIANO SOUND, PLUS THE POWER OF MIDI CONTROL!

Yamaha proudly presents the latest in its renowned PF Series—electronic pianos with all the character, tone, and dynamics of their acoustic counterparts. The PF80 and PF70 deliver sound quality and versatility in a package compact enough to suit any lifestyle.

Both models incorporate the Yamaha FM tone generation system to recreate the warmth, richness, and vibrance of acoustic and electric instrument voices. It is the world's most accurate tone generation system; the basis for our incredible DX Series synthesizers. Unlike a conventional electronic piano, which filters and regulates a fixed harmonic structure, the Yamaha FM tone generation system synthesizes the random harmonic structure found in fine acoustic pianos.

Both models—the PF80, an 88-key model; and the PF70, a 76-key model—feature an authentic acoustic piano feel. And both pianos are MIDI-compatible. MIDI (Musical Instrument Digital Interface) permits the PF80 and PF70 to share information with other MIDI instruments like DX synthesizers, tone generators, or sequencers. With a Yamaha PF Electronic Piano, you can command an entire MIDI ensemble!



A WEALTH OF FEATURES AND FUNCTIONS OFFER TREMENDOUS VERSATILITY

FRONT PANEL



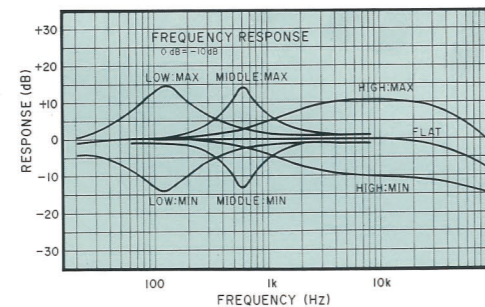
1 Power
Push ON/OFF switch.

2 Speakers
High-quality 16 cm wide-range for true reproduction fidelity.

3 Keyboards
Full-size keyboard with "weighted" acoustic feel for vivid musical expression.

4 Volume Control
The PF80 and PF70 feature a linear volume control that regulates the output of the internal stereo amplifier and built-in speaker system, as well as the signal level delivered to the rear-panel outputs I and II and stereo headphones.

5 3-Band Equalization
The HIGH, MIDDLE, and LOW controls constitute a versatile three-band equalizer system that facilitates adjustment of the overall frequency characteristics to suit your own requirements. The LOW and MIDDLE controls permit a maximum of 12 dB boost or cut in their respective frequency ranges, while the HIGH range can be boosted or cut by approximately 10 dB.



6 Multi-Mode Selectors
A special switch on the PF80/70 piano selects one of three separate modes:

VOICE, FUNCTION 1, or FUNCTION 2. In VOICE mode, the 10 selector switches to the right of the panel are used to call the corresponding 10 preset voices. The F1 and F2 modes permit access to the 16 programmable functions provided in the PF80 and PF70.

7 Tremolo
This is a dynamic, true stereo effect in which the sound appears to sweep back and forth between the stereo speakers. The tremolo effect is also sent to outputs I and II for amplification through a stereo sound system. And it's programmable—each voice you call can have a different degree of tremolo. You'll love what it can do for your music!

8 Chorus
This true stereo effect "thickens" your sound with added depth and dimension. It's also programmable so that it can be turned on/off automatically according to the voice you select. The CHORUS

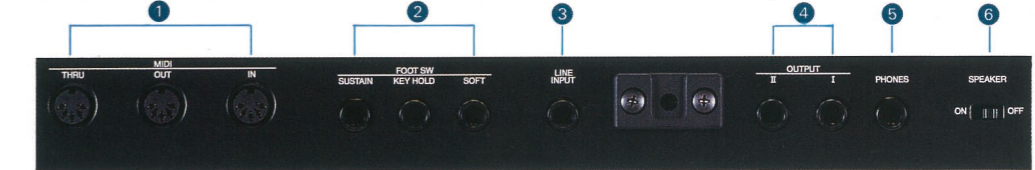
ON/OFF status you set for each voice will be retained even when the PF80/70 is turned off.

9 LED Display
Bright LED indicates voice selection, function, and parameter data.

10 Voice/Function Selectors
When either function mode is selected (see 6), the desired function within that mode is called by pressing the appropriately numbered selection button. "+" and "-" switches make it possible to change the data value of each function, indicated by the bright digital LED display.

11 Function Chart
Display codes for all internal keyboard functions.

REAR PANEL



- 1 MIDI THRU, OUT, IN Terminals
- 2 Footswitch jacks
SUSTAIN, KEY HOLD, SOFT PEDAL
- 3 Line Input jack
- 4 Output I, II jacks
- 5 Headphone jack
- 6 Speaker ON/OFF

Programmable Functions and Modern Musical Expression

SYSTEM SET		FUNCTION MEMORY					
1	2	3	4	5	6	7	8
F1	TUNE	FP	SOFT PEDAL	RF	TREMOLO SPEED	FD	TREMOLO DEPTH
F2	MIDI MERGE	RC	RECEIVE CHANNEL	TE	NOTE EVENT	PC	PRGM CH SET
		TR	TRANSMIT CHANNEL	NE	PRGM CH OUT	PR	PB RANGE
						IS	MIDI SPLIT

F1 MODE
TUNE
This function makes it possible to tune the PF80/70 to other instruments.

TRANSPOSE
With this, you can shift keyboard pitch up or down in semitone steps within a range of two octaves (C2 to C4).

SOFT PEDAL INTENSITY
This function adjusts the intensity or "depth" of the soft pedal effect when using an FC-4 or FC-5 foot controller.

TOUCH (VELOCITY) ON/OFF
When ON, the PF80/70 is capable of broad timbral variation. Like an acoustic piano, the PF80/70 offers active control of tone quality, dynamics, and keyboard response.

ATTENUATE
With attenuation, it is possible to adjust the volume of each voice over a broad range, so that you can set the optimum volume balance when switching from one voice to another.

TREMOLO SPEED, DEPTH
These functions set the speed and depth of the tremolo effect for each individual voice.

INTERNAL SPLIT
This permits you to limit note output to a range of keys extending from the programmed split point to either the lower or upper end of the keyboard. This is intended for use in conjunction with an external MIDI keyboard.

F2 MODE
MIDI MERGE
This function "mixes" PF80/70 and external MIDI data from a keyboard or sequencer. You can even control a third MIDI keyboard or tone generator with the data from both.

MIDI RECEIVE CHANNEL
This determines which of the PF80/70's 16 available MIDI channels will receive external MIDI instrument data.

MIDI TRANSMIT CHANNEL
This function determines which of the PF80/70's 16 available MIDI channels will transmit MIDI music data to external MIDI instruments.

NOTE EVENT OUTPUT
This turns MIDI NOTE EVENT transmission including keyboard, pedal, tremolo, chorus, and tuning, ON or OFF.

PROGRAM CHANGE OUT
This function transmits MIDI program change numbers via the MIDI OUT terminal. Thus it is possible to select an external MIDI keyboard or tone generator's voices direct from the PF80/70.

PROGRAM CHANGE SET
This function makes it possible to automatically select a specific voice on an external MIDI synthesizer or tone generator to be played simultaneously with the selected PF80/70 voice.

PITCH BEND RANGE
The PF80/70 is capable of receiving MIDI pitch bend data from an external MIDI keyboard via the MIDI IN terminal.

MIDI SPLIT
With MIDI SPLIT you can divide the keyboard at any desired point and transmit the lower and upper keyboard data on different MIDI channels.

MIDI A Musical Language for the Digital Age

MIDI is rapidly becoming a world standard in music technology, as an ever-greater variety of instruments incorporates this digital language. With the PF80/70 it is now possible to control—right from your keyboard—voices and rhythm patterns originating in other MIDI-compatible instruments. The F2 function selectors, accessed via the mode selectors, con-

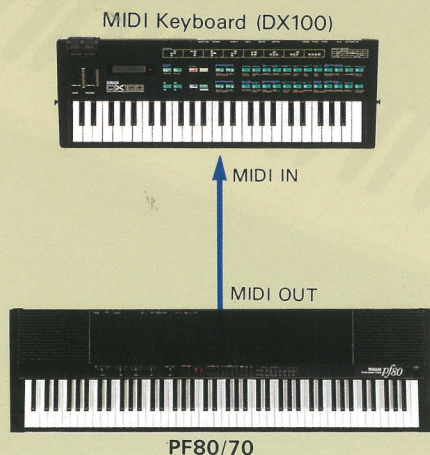
trol the various informational aspects of the MIDI language: note event output, program change, pitch bend range, MIDI split, MIDI merge, and MIDI receive/transmit. Using the sophisticated control of MIDI technology, it is possible to select from an array of split-keyboard combinations. If you've ever wished for the perfect musical combination, MIDI is the system for you.



Photo Shown PF80/DX100

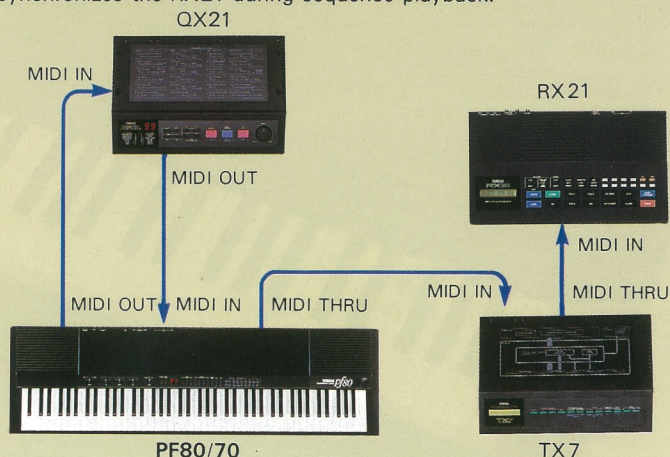
APPLICATION 1

MIDI System 1 employs a DX100 Digital Synthesizer, whose tone generator is assigned to the PF80/70 keyboard. With this system, it is possible to play a PF80/70 voice over its entire keyboard and superimpose a DX100 voice over a portion of it. An infinite variety of voice combinations can be accessed with these two instruments.



APPLICATION 2

MIDI System 2 places the PF80/70 within the context of a sequencer/tone generator/rhythm programmer system. The remarkable QX21 Digital Sequence Recorder acts as a real-time or step-write recorder, receiving note and controller data input from the PF80/70. The TX7 FM Expander Tone Generator, controlled by the PF80/70 or QX21, contributes an additional voice memory set for dual-voice performance or sequence playback. The clock signal from the QX21 synchronizes the RX21 during sequence playback.



SPECIFICATIONS

Keyboard	
pf70	76 keys, E0~G6 (normal)
pf80	88 keys, A-1~C7 (normal)
Simultaneous Note Output	16 notes
Voices	10 voices
Programmable functions	
Common for all voices	Tune, transpose, MIDI reception channel, MIDI transmission channel, note event ON/OFF, MIDI merge, program change OUT
Separate for each voice	Tremolo ON/OFF, chorus ON/OFF, soft pedal intensity, touch response ON/OFF, attenuate, tremolo speed, tremolo depth, internal split, program change number, pitch bend range, MIDI split
Controls	Volume, three band equalizer, speaker ON/OFF
Foot switch	Soft ON/OFF, keyhold ON/OFF, sustain ON/OFF
Display	2 digits, 8 segments LED
Speaker	16cm (6.3'') x 2 (8 ohms)
INTERNAL AMP Output	18W x 2
Output terminals	
OUTPUT I, II	1/4'' monaural phone jack, rated output level -10dB/output impedance 600 ohms, *noise level less than -65dB (VOLUME: MAX, EQUALIZER: Center)
PHONE	1/4'' stereo phone jack
Input terminal	
LINE INPUT	1/4'' monaural phone jack, rated input level -10dB
MIDI terminals	IN, OUT, THRU
Power Requirements	U.S. & CANADA: 120V 50/60Hz GENERAL: 110-120/220-240V 50/60Hz
Dimensions (W x H x D)	
pf70	1170(W) x 120(H) x 390(D)mm (46.0'' x 4.7'' x 15.4'')
pf80	1330(W) x 120(H) x 390(D)mm (52.4'' x 4.7'' x 15.4'')
Weight	
pf70	29kg (63.95lbs)
pf80	33.5kg (73.87lbs)
Standard Accessories	Foot switch FC-8 (sustain ON/OFF), music score stand
Optional Accessories	Foot switch FC-4, FC-5 (soft ON/OFF, key hold ON/OFF) Stand LG-PF80/70

* 12.47kHz, -6dB/oct. filter compensated

• 0dB = 0.775Vr.m.s.

• Specifications and appearance are subject to change without notice

FC-8 Footswitch

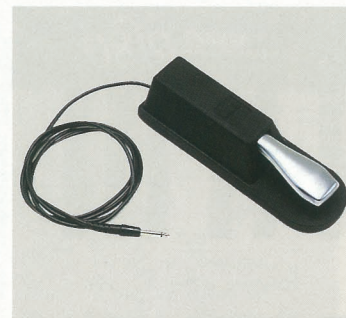
The FC-8 Footpedal plugs into the PF80/70's rear-panel SUSTAIN jack, giving it the half-pedal capability of an acoustic piano, but in four levels. For SOFT or KEY HOLD ON/OFF, we recommend Yamaha's optional FC-4 and FC-5 footswitches. KEYHOLD ON/OFF is similar to the sostenuto effect found in fine grand pianos.



ACCESSORIES



Foot switch FC-5



Foot switch FC-4



Optional stand LG-PF80/70

For details please contact:

SINCE 1887



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NIPPON GAKKI CO., LTD. HAMAMATSU, JAPAN