

**“ONE OF THE MOST
VERSATILE MUSICAL INSTRUMENTS
I’VE PLAYED IN YEARS.”**



Chuck Leavell
On Record and Tour with the Rolling Stones

The Greatest Artist Plays the Best.
KORG POLY-800
PROGRAMMABLE POLYPHONIC SYNTHESIZER

World's First Affordable 8-Voice 64-Program Polyphonic Synthesizer



A Close Look at POLY-800 Features

1 VOLUME

Also turns on power.

2 TUNE

Slider provides easy tuning to other instruments.

3 JOYSTICK

Left & right motion bends the pitch of any notes played. Up & down motion produces vibrato and filter modulation effects.

4 BEND

Sets maximum pitch bend depth.

5 SEQUENCER

Built-in polyphonic sequencer stores and performs up to 256 notes and also includes MIDI control capabilities.

6 KEY ASSIGN MODES

A POLY
Provides 8- and 4-voice polyphonic performance.

B CHORD MEMORY
Lets you play parallel harmonies using only one key, and also provides monophonic bass and solo articulation.

C HOLD
Provides sustained "Hands Off" sound.

7 PROGRAMMER
Microprocessor technology allows 64 different programs to be stored, recalled, edited & saved on tape, as desired.

D PROGRAM/PARA
Alternates between program select and parameter select modes.

E SAVE
Stores "libraries" of sound programs and sequencer data onto cassette tape for later use.

F LOAD
Recalls sound programs, sequencer data, or both from cassette tape into the Poly-800.

G VERIFY
Checks tape data against internal memory to insure data is recorded correctly.

H CANCEL
Cancels current tape operation.

I WRITE
Press to memorize a program.

J VALUE

Shows value for selected parameter; can be changed by Up and Down buttons.

K BANK HOLD

Allows quick single-button access to programs or parameters within the same bank.

L DISPLAY

6 large LED digits provide complete data read out.

8 PARAMETER TABLE

Displays all POLY-800 program parameters (Waveform, Cutoff frequency, etc.) which are used to create different programmed sounds.

M DCO 1 & 2

Eight digitally controlled oscillators with individual Octave, Waveform, 16'-2' Harmonics and level parameters provide wide range of basic sounds. DCO2 INTERVAL and DETUNE parameters provide tracking harmonies and fat sounds.

N MODE

Selects Whole (8 voice, one DCO per voice) or Double (4 voice, two DCO's per voice) playing modes.

O NOISE

White noise source with separate EG.

P VCF

Equipped with new 24-decibel-per-octave filter circuitry for total tonal control. Multiple or single triggering, keyboard tracking, EG intensity & reverse polarity selection.

Q CHORUS

Thick stereo chorus may be programmed into any sound.

R DEG 1, 2, 3

Advanced 6 part digital envelope generators provide separate "layering" control of DCO'S 1 & 2, VCF & Noise.

S MG

Modulates the DCO's and/or VCF to create delayed vibrato, wah-wah, and other effects.

T MIDI

Lets you select how the Poly-800 is controlled when it's connected via the built-in MIDI port to MIDI compatible keyboards, computers, or other equipment.

6 Parameter Digital Envelope Generators for Most Flexible Articulation

Newly Developed ADBSSR System

See graphs below.

1 ATTACK

Rate at which the maximum peak is reached.

2 DECAY

Rate used to travel from the attack peak to the Break Point level.

3 BREAK POINT

Level at which the Decay rate changes to the Slope rate.

4 SLOPE

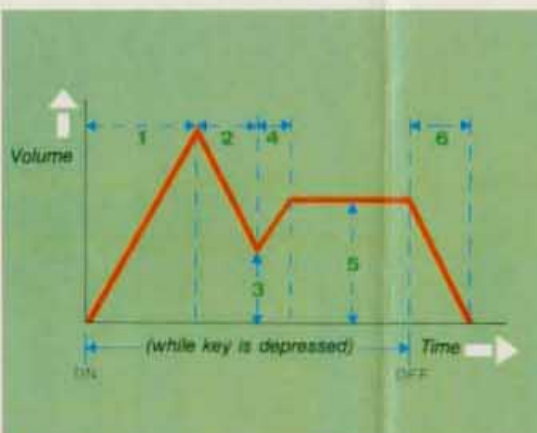
Rate used to travel from the Break point to the Sustain Level. With Sustain higher than Break point, Slope is a second attack; otherwise slope is a second decay.

5 SUSTAIN

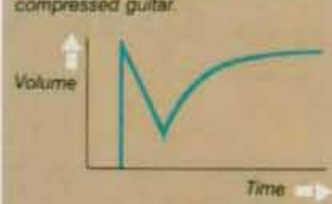
Sound maintains at this level following Attack, Decay & Slope for as long as key is depressed.

6 RELEASE

Rate at which the sound fades away after the key is released.



Second attack simulates envelope of compressed guitar.



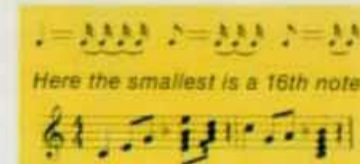
Second decay simulates piano envelope.

Built-in Polyphonic Sequencer for Automatic Play

Writing Sequences

Determine smallest time value. This will be the value of one STEP.

Example:



1) Set rear panel Sequencer WRITE switch to ENABLE position.

2) Press START/STOP.

3) Depress "C" Key and press STEP 3 times to lengthen the note. This creates a quarter note "C" (1/16 + 3 x 1/16 = 1/4). Display should show "S004".

4) Write in other notes in the same way.
5) For rests, press STEP without depressing any key. (Press four times for a quarter note rest.)

6) Press START/STOP to end write operation.

7) Set rear panel Sequencer WRITE switch to DISABLE position.

One-Touch Program Selection

1) Press PROG/PARA, if needed, so Parameter Display shows "P", "C" or "H".

2) Enter the desired 2 digit Program Number on the 8 Number Buttons.

3) Press BANK HOLD (LED dot turns on). Now, select any program in that bank by pressing a single Number Button.

Create Original Sounds Quickly & Easily

1) Choose a program from the memory that is reasonably close to the sound you want.

2) Press PROG/PARA to select the Parameter mode (numbers appear in Parameter no. and Value displays).

3) Select a Parameter Number from the Parameter Table and enter it using the eight number buttons (for example, VCF Cutoff is 41).

PARAMETER NO.	PARAMETER VALUE	PARAMETER NAME							
51	52	53	54	55	56	61	62	63	64
DEG1 (FORCO1)									
DEG2 (FORCO2)									

4) Edit the parameter Value using the UP and DOWN buttons.
5) Repeat steps 3 and 4 to change other parameters until you've created the sound you want.
6) To make sounds permanent, you must use the red WRITE button and rear panel Program WRITE Enable switch.

Comes with Fantastic Sound Data Tape

Sound Data Tape

Using an ordinary cassette recorder you can load data for 64 original sounds. A free sound data tape is included with your POLY-800.

How to load data from tape to Poly-800

1) Connect rear panel FROM TAPE jack to tape recorder output jack. Set HIGH (earphone) / LOW (line out) switch according to

type of record jack.

2) Set tape recorder volume to medium level.

3) Set rear panel TAPE and WRITE switches to ENABLE positions.

4) Press front panel LOAD button.

5) Start tape playback.

6) Display will show "Good" if data loading was successful.

7) Stop tape and set rear panel TAPE and WRITE switches to DISABLE positions.

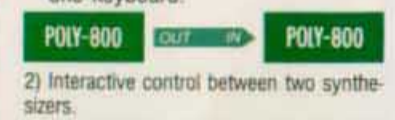
8) If display shows "Err" (for error), press CANCEL and try again with tape volume at a different level. Repeat steps 3-5.

MIDI Equipped for Interfacing with Your Computer

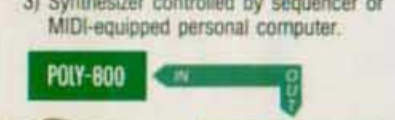
The Musical Instrument Digital Interface (MIDI) allows different types of musical instruments and computers to talk to each other, as a result of an agreement between many manufacturers. The Poly-800 MIDI can send and receive note data, joystick data, program changes and sequencer control signals.

Examples:

1) Controlling two synthesizers from one keyboard.



2) Interactive control between two synthesizers.



3) Synthesizer controlled by sequencer or MIDI-equipped personal computer.



1) Connect rear panel FROM TAPE jack to tape recorder output jack. Set HIGH (earphone) / LOW (line out) switch according to

AMAZING SOUNDS AND UNBELIEVABLE COST/PERFORMANCE. THE KORG POLY-800 GIVES YOU 8 VOICES, 64 PROGRAM MEMORY, FULL EDIT FUNCTIONS, TAPE INTERFACE, POLYPHONIC SEQUENCER, DUAL DIGITAL OSCILLATORS, TRIPLE 6-PARAMETER DIGITAL ENVELOPE GENERATORS, AND MORE IN A SYNTHESIZER LIGHT ENOUGH TO WEAR ON A SHOULDER STRAP. TRY IT TODAY—THE KORG POLY-800.

KORG POLY-800

PROGRAMMABLE POLYPHONIC SYNTHESIZER

Connection Chart



Connection Chart

1. DC 9V terminal for operation on AC current using exclusive adaptor.
2. Headphone jack
3. R/L outputs permit stereo connection to bring out stereo chorus effect. L/MONO is for mono connection.
4. Program write enable/disable switches allow independent program storage for synth sounds and sequencer data.
5. Tape interface for storing data on cassette tape.
6. Program Up jack lets you advance the program number by pressing a foot pedal switch (PS-1).

7. MIDI interface port for connection to other MIDI equipped instruments, control devices, and computers.

SPECIFICATIONS

KEYBOARD
 49 keys (O-C), Normal Color/Reverse Color
VOICE: 8 Voice (WHOLE mode)
 4 Voice (DOUBLE mode) **DCO1:**
 Octave (LOW, MID, HIGH), Waveform (S, T), 16' 8' 4' 2' (ON OFF) Level adjustment **DCO2:** Octave (LOW, MID, HIGH), Waveform (S, T), 16' 8' 4' 2' (ON OFF) Level adjustment, Interval (Perfect 1st—Perfect 8th), Detune (-20 cent MAX)
DCO Mode: (WHOLE, DOUBLE)
NOISE: Level adjustment (White noise) **VCF:** Cutoff, Frequency adjustment, Resonance adjustment, Keyboard Track (OFF, HALF, FULL), Adjustment of EG reception, Switch of EG mode (S, T, L), Switch of trigger mode (SINGLE, MULTI) **CHORUS:** ON/OFF **DEG1 (FOR DCO1):** Attack time, Decay time, Break point level, Slope time, Sustain level, Release time **DEG2 (FOR DCO2):** Attack time, Decay time, Break point level, Slope time, Sustain level, Release time **DEG3 (FOR VCF & NOISE):** Attack time, Decay time, Break point level, Slope time, Sustain level, Release time **MG:** Frequency adjustment, Delay time, DCO intensity, VCF intensity **MIDI:** Receive Channel (1-16 cha.), Program change

(ENABLE/DISABLE), Sequencer clock (INT, EXT) **TUNE:** ±50 cent
POWER: DR, Volume adjustment
JOYSTICK: X direction (Pitch bend), +Y direction (DCO modulation) —Y direction (VCF modulation)
BEND: Pitch bend adjustment (±700 cent MAX) **SEQUENCER:** START/STOP, STEP, SPEED (Slow—Fast) **KEY ASSIGN MODE:** Poly, Chord memory, Hold **PROGRAMMER:** Number select button (1-8), Program/Parameter, Bank Hold, Value (Up, Down), Write switch **INDICATOR:** Program display, Parameter number display, Value display, Bank hold display, Edit display **TAPE INTERFACE:** Save, Load, Verify, Cancel **INPUT JACK:** FROM TAPE (HIGH/LOW), PROGRAM UP **OUTPUT JACK:** Output (R, L/MONO), Phones TO TAPE **TAPE SWITCH:** ENABLE/DISABLE **WRITE SWITCH:** Program (ENABLE/DISABLE) **MIDI JACK:** IN, OUT **DC9V:** AC adapter jack **STRAP PIN:** 2 **DIMENSIONS:** 760(W) × 286(D) × 87.5(H)mm
WEIGHT: 4.3kg (including battery)
ACCESSORY: Pre-load data tape, battery (UM-2 × 6), Shield cord (2.5m × 1), AC adapter

OPTIONS



ST-8 STAND



KEYBOARD STRAP

MIDI CONNECTION CORD



HARD CASE



KH-1
STEREO HEADPHONES



LIGHT BAG

*Specifications and features are subject to change without notice for further improvement.

NOTICE

Korg products are manufactured under strict specifications and voltages required by each country. These products are warranted by the Korg distributor only in each country. Any Korg product not sold with a warranty card or carrying a serial number disqualifies the product sold from the manufacturer's/distributor's warranty and liability. This requirement is for your own protection and safety.

KORG®

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