**SERVICE NOTES**

**First Edition**

**SPECIFICATIONS**

- **Keyboard**: 76 key (C to G)
- **Memory Capacity**:
  - Patch Memory: 64
  - Internal Memory: 60
  - Memory Cartridge: 50
- **Tone**:
  - Present: 50
  - Internal Memory: 50
  - Memory Cartridge: 50
- **Sequencer Data**:
  - (Using the supplied Memory cartridge M-16C or M-64C)
  - M-16C: Approx. 400 notes
  - M-64C: Approx. 1600 notes
- **Output**:
  - MIX: 3.3kΩ
  - R: 3.3kΩ
  - L: 3.3kΩ
  - UPPER: 20dBm max.
  - LOWER: 20dBm max.
- **Dimensions**: 1186 (W) x 375 (D) x 101 (H) mm
- **Weight**: 14 kg (30lb), 14 oz.
- **Power Consumption**: 25W
- **Accessories**:
  - Connection Cord x 2
  - Memory Cartridge M-16C x 1
  - M-64C x 1
  - Edit Map
  - Music Rest
  - Owner's Manual
  - MIDI Guide Book "MIDI"
- **Programmer**: PG-800
- **Expression Pedal**: EV-5
- **Pedal Switch**: DP-6, DP-2
- **Memory Cartridge**: M-16C, M-64C
- **Carrying Case**

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Printed in Japan BB-2
The labels below must be attached to the JX-10 service notes that is to be referenced in DNS ruling countries.

**WARNING!**
Lithium battery: Explosive hazard. Used battery must be transported and handled according to the local law. Refer to the service manual.
Lithium battery must be replaced with same type and from the same manufacturer.
Lithium battery must be replaced with same type and from the same manufacturer.

**VAROITUS!**
Lithiumbatteri: Räpityhmä. Varoitettavaäly: Lithiumbatteri: Explosive hazard. Used battery must be transported and handled according to the local law. Refer to the service manual.
Lithiumbatteri must be replaced with same type and from the same manufacturer.
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MIDI IMPLEMENTATION

[12 voice polyphonic synthesizer]

Model JX-10
MIDI Implementation Chart
Version: 1.01

Date: Feb. 21 1986

Function... | Transmitted | Recognized | Remarks
--- | --- | --- | ---
Channel Changed | UP:1-16 LO:1-16 | LO:1-16 | |
Default Mode | Mode 3 | Mode 3 | |
Mode Messages | OMNI OFF, POLY | x | |
Altered | | | |
Note | 28 - 103 | 0 - 127 | |
Number : True voice | | | |
Velocity Note ON | 0 v=1-127 | 0 v=0 | |
Note OFF | x | | x
After Key's | | | x
Pitch Bend | | | x
Pitch Bender | | | 2/3/4/7 semi 8 bit res.

Prog | | |
System Exclusive | x | x
System : Song Sel | x | x
System : Tune | x | x
System : Clock | o When sequencer | o | x
Real Time : Command | o cartridge is set | x |
Aux : Local ON/OFF | x | o | Default ON
All Notes OFF | o (123-127) | x | |
Active Sense | x | x | |
Messages : Reset | x | x | |
Notes | Can be set to o or x manually, and memorized.
** As tone#: 0-99 (100-127 ignored if received.)
As patch#: 0-127
As optional Prog# (transmitted only): 0-127
See each implementation notes for details.

Mode 1 : OMNI ON, POLY  Mode 2 : OMNI ON, MONO o : Yes
Mode 3 : OMNI OFF, POLY  Mode 4 : OMNI OFF, MONO x : No
CHANGE INFORMATION

Preventing Sound Leaksage

Add 3.3K (W126) in parallel to C112.
This filter out unwanted high harmonic components in the sound.

Making Aftertouch Adjust-free

The factory experience proved that the aftertouch sensor needed an adjusting the output. In order to eliminate unecessary adjustment and retain positive connection, the trimmer, if exists, on VOLUME board should be set at F12M position or jumper-shorted. Fig. E.

ROM Version

The latest version(July 1986) of ROM A, B and C is 2.00.
The ROM version number system in the JX-10 is that whenever one of these ROMs is replaced, both two ROMs are also renumbered to the new version.
The display program is stored in ROM A only.
The software revision shown in the table below have been done on ROM A only -- ROM B and ROM C of Version 1.72-2.00 retains unchanged program.

IC DATA

HD63803P

Pin Configuration (Top View)

Block Diagram

μPD8155HC

Pin Configuration (Top View)

Block Diagram

MM5437

Pin Configuration (Top View)

Block Diagram