

THE MIDI

MIDI stands for Musical Instrument Digital Interface designed to enable inter-connecting synthesizers, sequencers, rhythm machines, home computers, etc. Copies of publications concerning MIDI hardware and data format will be obtained from MIDI committee or through Roland distributors.
In the following listed are data formats and data handling capabilities of MIDI system of the JP-6 and other Roland models now on the market, for reference.

NOTE: Availability of MIDI effects at slave equipment depends on its MIDI operation scheme.

JP-6 MIDI
IMPLEMENTATION

| TRANSMITTED DATA | | | |
|------------------|-----------|-----------|----------------------------------|
| Status | Second | Third | Description |
| 1001 000* | 0kkk kkkk | 0vvv vvvv | Note On (v=40H) / off (v=0) |
| 1011 000* | 127 (7FH) | 0 | POLY Mode Select (All notes off) |
| 1100 0000 | 000p pppp | | Program Change p=0 - 31 (1FH) |
| 1111 0110 | | | Tune |

| RECOGNIZED RECEIVE DATA | | | |
|-------------------------|-----------|-----------|---|
| 1001 000* | 0kkk kkkk | 0vvv vvvv | Note On (v > 0) / off (v=0) Velocity ignored |
| 1000 000* | 0kkk kkkk | 0vvv vvvv | Note Off. Velocity ignored |
| 1011 000* | 125 - 127 | 0 | Mode Select |
| 1100 000* | 000p pppp | | Program Change |
| 1111 110 | | | Tune |

- Notes:
1.

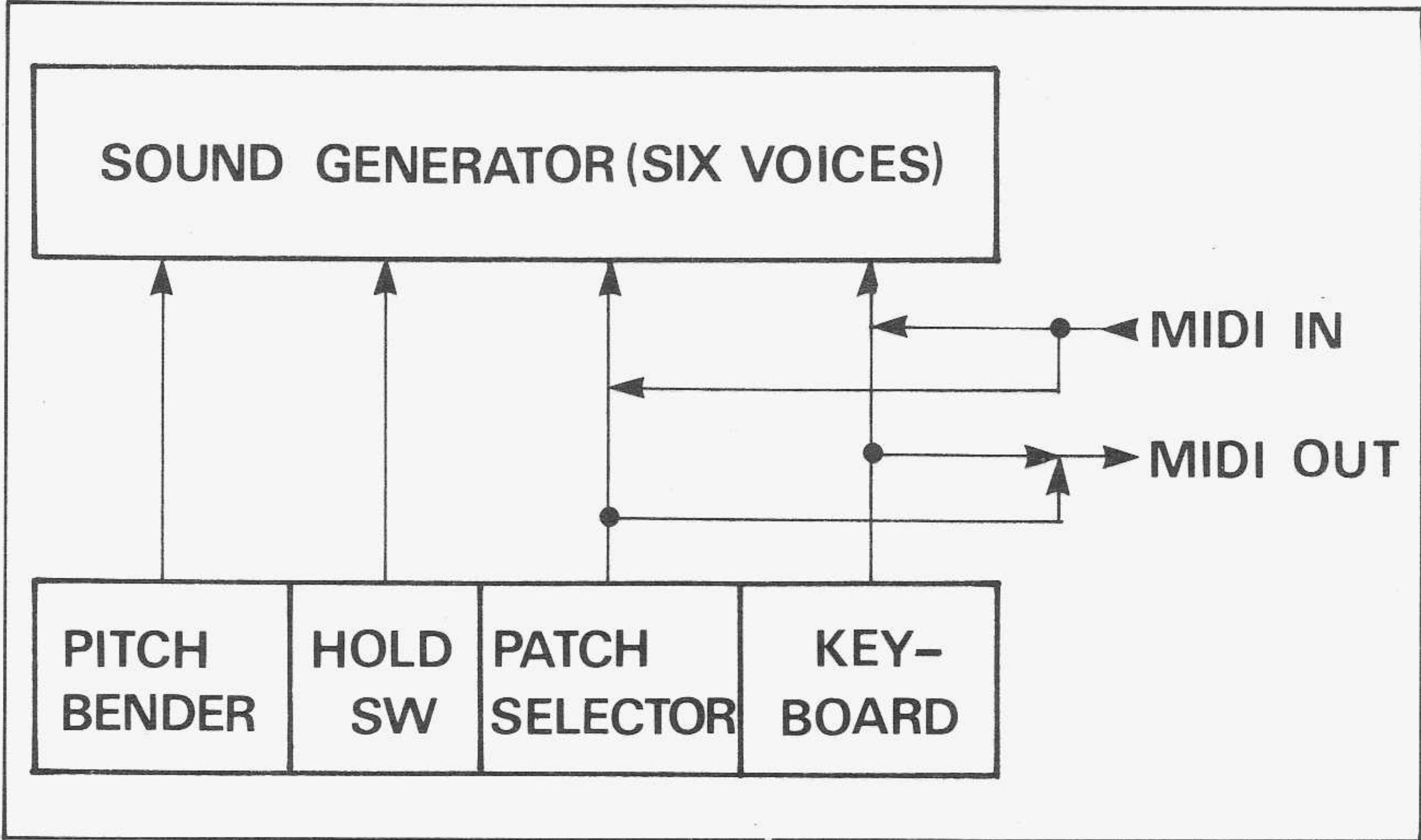
In WHOLE KEY mode, the JP-6 sends and receives on Channel 1 only. In SPLIT KEY mode, channels 1 and 2 are allocated to the upper half and the lower half of the keyboard respectively.
In OMNI mode, any channel will be accepted.
2.

The receiver accepts both OMNI and POLY Select.
When MONO Select is received, the receiver switches to OMNI mode.
3.

The key signal received from MIDI IN is mixed with self contained key signal.
4.

The JP-6 accepts Program Changes not as the number of the tone program but as the number of a combination of Key Mode (WHOLE/SPLIT) and a tone Program Number.
The receiver reads Program Changes when PATCH PRESET on the control panel is turned on.
5.

The notes outside the JP-6 keyboard range will be shifted by octave(s) to fall within the range.



JX-3P MIDI INPLEMENTATION

TRANSMITTED DATA

| Status | Second | Third | Description |
|-----------|-----------|-----------|--|
| 1001 0000 | 0kkk kkkk | 0vvv vvvv | Note On (v=40H) / (v=0) |
| 1011 0000 | 0100 0000 | 0 | Hold Off from rear panel jack, if enabled. |
| 1011 0000 | 0100 0000 | 7FH | Hold On from rear panel jack, if enabled. |
| 1011 0000 | 0111 1111 | 0 | POLY Mode Select (All notes off) |
| 1100 0000 | 00pp pppp | | Program Change from front panel, if enabled. Bank A-1 (0) → Bank D-16 (63) |
| 1110 0000 | 0bb0 0000 | 0bbb bbbb | Pitch Bender if enabled. MSB LSB MAX (high) 127 96 CENTER 64 0 MIN (low) 0 0 |

- Notes:
1. HOLD switch on the front panel does not send the signal to MIDI OUT.
 2. Pitch Range (0kkk kkkk) is 36(C0) - 96(C5).
 3. The transmitter sends All Notes Off (POLY Select) when all of the keys are released.

RECOGNIZED RECEIVE DATA

| Status | Second | Third | Description |
|-----------|-----------|-----------|---|
| 1001 0000 | 0kkk kkkk | 0vvv vvvv | Note On (v > 0) / off (v=0) Velocity ignored. |
| 1000 0000 | 0kkk kkkk | 0vvv vvvv | Note Off. Velocity ignored. |
| 1011 0000 | 0100 0000 | 0 | Hold Off, if enabled. |
| 1011 0000 | 0100 0000 | 7FH | Hold On, if enabled. v=1 - 126 ignored. |
| 1011 0000 | 125 (7DH) | 0 | OMNI Select (All notes off). |
| 1011 0000 | 127 (7FH) | 0 | POLY Select (All notes off). |
| 1100 0000 | 00pp pppp | | Program Change if enabled. p=0 - 63 |
| 1110 0000 | 0bb0 0000 | 0bbb bbbb | Pitch Bender if enabled. MSB LSB MAX 127 96 CENTER 64 0 MIN 0 0 LS 5 bits ignored. |

- Notes:
1. The JX-3P does not respond to MONO Mode Select.
 2. Internal sequencer is not connected to MIDI out.
 3. In OMNI mode, any channel will be accepted.
 4. Sensitivity of the Pitch Bender is selected by the receiver.

| | Wide | Middle | Narrow |
|--------------------------|------|--------|-------------|
| MAX (MSB - 127 LSB - 96) | +7 | +4 | +2 semitone |
| MIN (MSB - 0 LSB - 0) | -7 | -4 | -2 semitone |

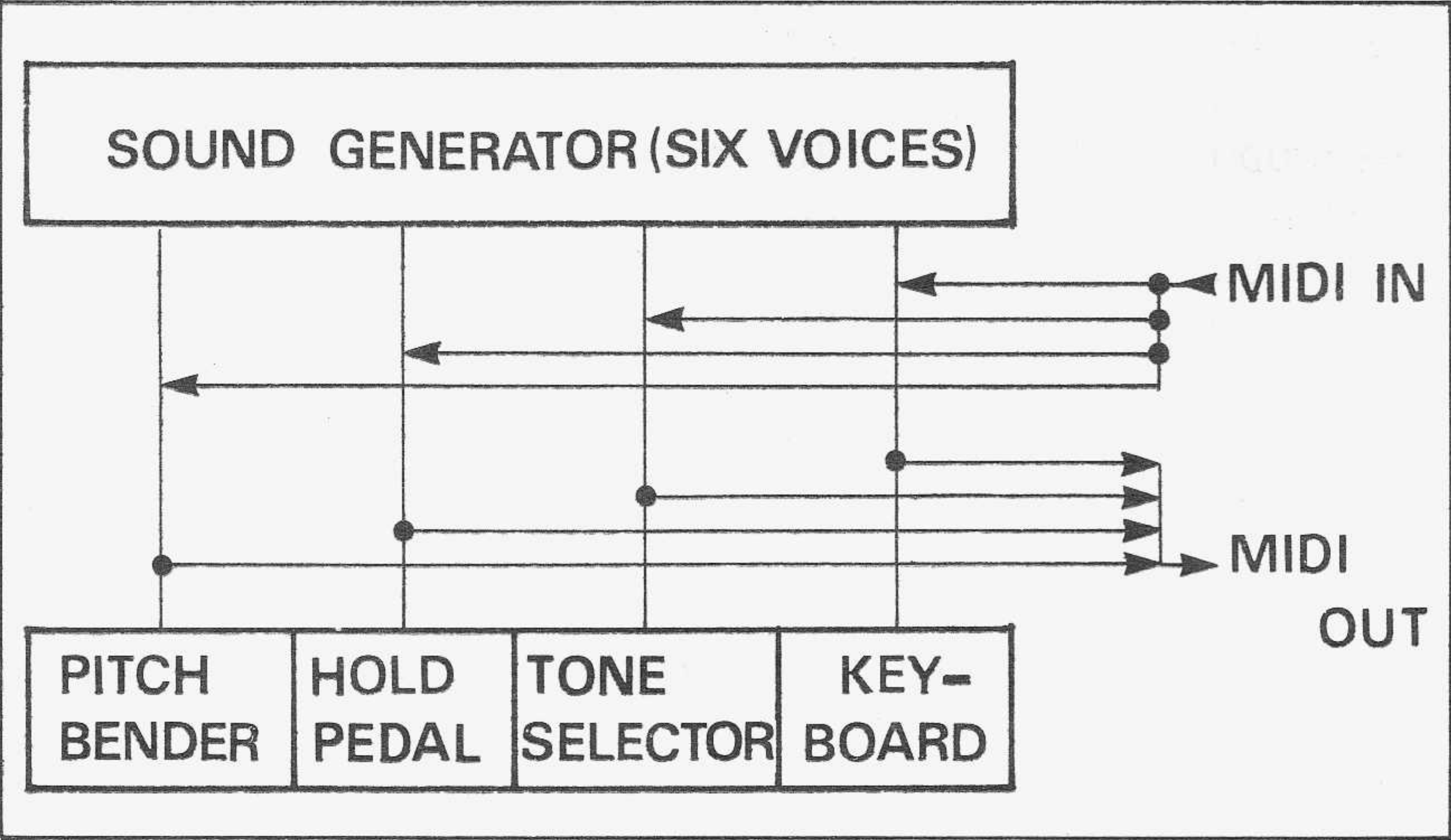
FRONT PANEL CODED FUNCTION

When power on, pressing a Program Select switch will disable the following functions.

| Switch | Function |
|--------|---|
| 14 | Hold On/Off, both transmit and receive. |
| 15 | Pitch Bender Change, both transmit and receive. |
| 16 | Program Change, both transmit and receive. |

Note:

1. On power up, not pressing any switches, these MIDI functions are enabled.
2. The notes outside the JX-3P keyboard range will be shifted by octave(s) to fall within the range.



JX-3P