

TEST MODE HP-2e

Items required:

MIDI cable
Oscilloscope
Pedals: SOFT, SOSTENUTO and DAMPER

Notations:

- **LED**
 - = Led ON;
 - * = Led blinking
 - = Led off
- **BUTTONS**
 - T1: TONE PIANO
 - T2: TONE E.PIANO
 - T3: TONE HARPSICHORD
 - T4: TONE ORGAN
 - T5: TONE STRINGS
 - T6: TONE VARIATION

1. How to enter Test Mode, Device Check and how to visualize the System program version

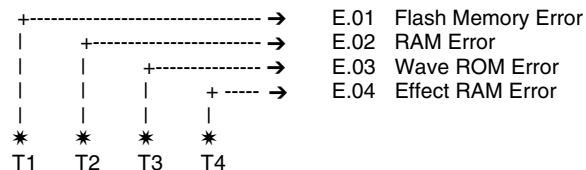
Turn the instrument on.
Press the buttons REC, TRACK 2 and TRANSPOSE contemporarily.
While the system carries out the Device Check, the display visualizes:



Then the display visualizes the system version (i.e.: Ver. 1.01).



In case a problem happens during the Device Check, the display visualizes the error and the LED of the corresponding button keeps blinking, as shown in the table below:



Press the button TRANSPOSE to go on to the next check.

In case you have already selected a test and you want to quit it and go on to the next one, press the button + and the button TRANSPOSE contemporarily.

2. SWITCH / LED CHECK

At first, all LEDs are on.
Every time you press a button you hear a piano sound.
When all the buttons have been pressed and all LEDs are off, the system goes on to the following check automatically.

For the buttons BRILLIANCE, VARIATION, METRONOMO, BEAT and KEY TOUCH, orange colour means that both red and green LEDs work.

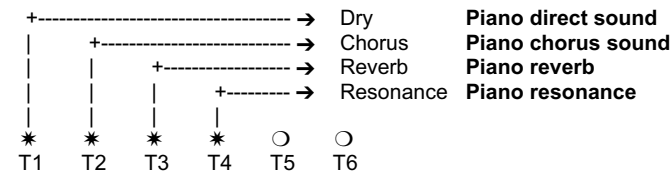
The buttons - and + don't have any corresponding LED, but some segments on the display turn off according to the button pressed, as indicated in the following pictures:



The system goes on to the following check automatically.

3. EFFECT CHECK

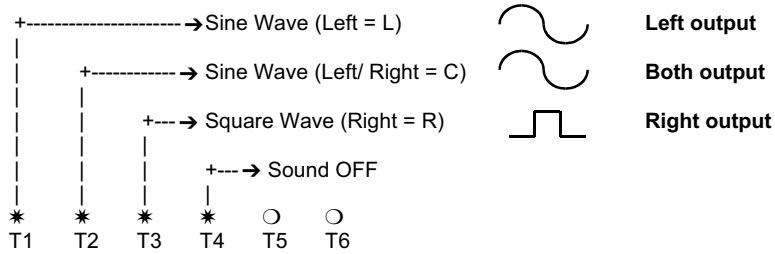
When pressing each button, you hear the sound with the effect indicated.
The display visualizes:



Press the button TRANSPOSE to go on to the next check.

4. PANPOT CHECK

When you press the following buttons, you hear the corresponding sound as indicated below.
The display visualizes:



Pressing the buttons as indicated in the following table, you hear the corresponding sounds.
Put the volume potentiometer at max.
Insert a jack connected to the oscilloscope into L/R output and then into the R output.
The oscilloscope shows the wave shape and its value in Volt (Vpp). Namely:

Button	Wave shape	Frequency (Hz)	Output	Volt (mVpp)
Tone PIANO		220	L	Min 850 Max 950
Tone E. PIANO		440	L / R	Min 620 Max 680
Tone HARPSI-CHORD		440	R	Min 950 Max 1.050

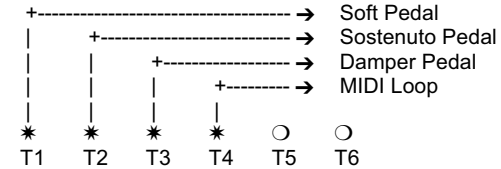
Press the button TONE ORGAN to stop the sound.
Press the button TRANSPOSE to go on to the next check.

5. A/D AND MIDI CHECK

A/D check:
The display visualizes:



Buttons and LEDs are as follows:



Pressing each pedal the corresponding blinking LED goes off, the display shows a value between 0 and 10 and you hear a sine wave sound. When the value is 0 you don't hear any sound, when the value is 10 you hear a bell-like sound.

Press the button TRANSPOSE to go on to the next check.

MIDI Check:

Connect MIDI IN and MIDI OUT sockets by a Midi cable:
The LED corresponding to the button T4 is:

- : Connection OK;
- : Connection failed.

Blinking Led means that the connection has not been tested.

6. End

Once the MIDI check is ended and the MIDI cable is disconnected, the display visualizes:



Press the button TRANSPOSE to enter test mode again.

Turn the power off to exit test mode.