■TEST PROGRAM

A. PREPARATIONS

1. OUTPUT LEVEL TEST

Measure the output level with a level meter (filter based on the IHF-C curve).
The input impedance on the measuring devices should be 1 MΩ or more.

2. MEASURING POINT

Use a stereo plug and measure at the PHONES terminal (L ch) unless instructed otherwise.

3. CONTROL SECTION CONDITIONS

Unless otherwise specified, the conditions should be as follows:

a. All switches should be initialized when the power is turned on.
b. Nothing should be connected to the AUX-IN/OUT terminals.

B. HOW TO ENTER THE TEST PROGRAM

Insert a 3.5 inch 2DD formatted floppy disk into the floppy disk drive.

Press and Hold [FADE IN/OUT], [INTRO B/FILLI to B] and [DEMO] while turning on the power, enables the test program and causing the test menu display to appear.

C. TEST PROGRAM

The test program contains the following 18 tests:

00: ROM VERSION
01: ROM CHECK
02: RAM CHECK
03: LCD DOT ALL ON
04: LCD DOT ALL OFF
05: SWITCH, RE, LED CHECK (AUTO)
06: SWITCH, RE, LED CHECK (MANUAL)
07: PITCH BEND
08: MODULATION
09: EXPRESSION
10: FOOT SW 1
11: FOOT SW 2
12: OUTPUT LEVEL-LEFT (Sine wave)
13: OUTPUT LEVEL-RIGHT (Sine wave)
14: MEG(EFFECT)
15: AUTO SCALING
16: BATTERY
17: FDD(FLOPPY DISK)

Button Functions

L-1[MODE] button: Press to switch between AUTO and MANUAL modes.
L-3[EXIT] button: Press to return to the menu while a test is being executed or to stop the test mode and return to normal mode, while menu is displayed.
L-4[GO] button: Press to execute the selected test.
R-1[FACTRY SET] button: Press to initialize backup data.
R-4[V] button: Press to proceed to the next test.
LCD Controller: In AUTO mode, use the LCD Controller to choose the initial test. In MANUAL mode, use the LCD Controller to select a test to be executed.

MANUAL Mode

LCD Controller: Use the LCD Controller to select test to be executed.
L-4[GO] button: Press to perform the selected test.
R-4[V] button: Press to proceed to the next test.
R-3[L] button: Press to administer the test before the current selected test.
L-3[EXIT] button: Press to return to the menu while a test is being performed, or to stop the test mode and return to normal mode when the menu is displayed.

TEST 00. ROM VERSION DISPLAY

Select Test 00. The test number and information will appear within parentheses at the bottom of the display. Press L-4[GO] to initialize Test 00. The following data will appear at the top of the display.

CPU:	Version number	Date Time
PROGRAM:	Version number	Date Time
DATA 1:	Version number	Date Time
DATA 2:	Version number	Date Time
STYLE :	Version number	Date Time

In AUTO mode, the test program will automatically proceed to Test 01 ROM CHECK.

TEST 01. ROM CHECK

The PROGRAM ROM, DATA ROM, STYLE ROM ADDRESS BUS and DATA BUS are verified and the WAVE ROM checksum is calculated. The following results will appear at the top of the display .

CPU	: **	WAVE 1	: **
PROGRAM	: **	WAVE 2	: **
DATA 1	: **		
DATA 2	: **		
STYLE	: **		

TEST 02. RAM CHECK

When Test 02 is initialized, the following information appears at the top of the display with either [OK], or [NG] to the right.

```
"SRAM    :  OK"
```

TEST 03. LCD DOT ALL ON

Verifies all LCD pixels change to white.
Press the L3[EXIT] to end the test.

TEST 04. LCD DOT ALL OFF

Checks all LCD pixels change to black.
Press the L3[EXIT] to end the test.

TEST 05. SWITCH, RE(LCD Controller), LED CHECK (AUTO)

Press L-4[GO] button to initiate the Test 05, and then the following will appear on the display.

```
"START SWITCH SELECT "
```

Press the PHRASE button of the ARRANGER section on the left end of the panel to start the test. If the test is OK, a PIANO tone will sound and the LED adjacent to the switch will light up while the switch is pressed, and then the following display will appear, and you could proceed to test the next switch.

```
"NEXT SWITCH"
(2: ARRANGER PAD)
```

Press all buttons, according to the instructions on the LCD. After the buttons are verified, the following will appear on the test menu display.

```
05: SW, RE, LED  AUTO          OK
```

During the test, if an error is detected, no sound will be heard and you could not proceed to the next switch test.

TEST 06. SWITCH, RE(LCD Controller), LED CHECK (MANUAL)

After selecting Test 06, press L-4[GO] button to initiate the test, and then the following will appear on the display.

```
"PRESS CHECK SWITCH ?"
```

You could press any switch to test whenever you want to during this test.

If a switch is pressed and is operating normally, a PIANO sound will be generated and the appropriate LED indicator will light up. If you would like to end the test, press the L-3[EXIT] button.

TEST 07. PITCH BEND

After initiating Test 07, the following will appear at the top of the display.

```
"SET TO MAX(127)"
     (64)
```

Using a smooth motion, move the pitch bend wheel from maximum (up) to minimum (down) and to the center position as indicated on the display.
Check that the pitch bend value changes as follows;

```
64 → 127 → 0 → 64
```

If the pitch bend is operating normally, the test number and data will appear at the bottom of the display with [OK] to the right.

TEST 08. MODULATION WHEEL

Select and execute Test 08. The following will appear at the top of the display.

```
"SET TO MAX(127)"
     (0)
```

Operate the MODULATION wheel in a smooth motion from the minimum (down) to the maximum (up), and back to the minimum (down) as indicated on the display. Confirm the modulation wheel values change as follows;

```
0 → 127 → 0
```

If the modulation wheel is operating normally, the test number and details will appear at the bottom of the display with [OK] to the right.

TEST 09. EXPRESSION PEDAL

After instigating Test 09, the following will appear at the top of the display.

```
"SET TO MIN(0)"
     (127)
```

Connect an expression pedal moving it from the minimum (raised) to the maximum (depressed), and back to the minimum (raised) as indicated on the display.

Verify the expression pedal values change as follows;

0 →127 → 0

If the expression pedal is operating normally, the test number and details will appear at the bottom of the display with [OK] to the right.

TEST 10. FOOT SWITCH 1

Select and perform Test 10, so the following appears at the top of the display.

"SWITCH (ON)"

Connect a sustain pedal switch and turn it on or off as indicated on the display.
If the sustain pedal switch is operating normally, the test number and details will appear at the bottom of the display with [OK] to the right.

TEST 11. FOOT SWITCH 2

Select and execute Test 11, so the following appears at the top of the display.

"SWITCH (ON)"

Connect the foot switch and turn it on or off as indicated on the display.
If the foot switch is operating normally, the test number and details will appear at the bottom of the display with [OK] to the right.

TEST 12. OUTPUT LEVEL－LEFT

After selecting Test 12, a sine wave signal will be output from each terminal.
Check for normal signal output from AUX. OUT L and PHONES(L).
Insert the jacks into both terminals, AUX. OUT R and L/L+R, and set the master volume to maximum.

Check:
AUX. OUT L: Sine wave, -7 ±3 dBm (Load open)
PHONES(L): Sine wave, -3 ±3 dBm (Load open)

TEST 13. OUTPUT LEVEL－RIGHT

After selecting Test 13, a sine wave signal will be output from each terminal.
Check for normal signal output from AUX. OUT R and PHONES(R).
Insert the jacks into both terminals, AUX. OUT R and L / L+R, and set the master volume to maximum.

Check:
AUX. OUT R: Sine wave, -7 ±3 dBm (Load open)
PHONES(R): Sine wave, -3 ±3 dBm (Load open)

TEST 14. MEG(EFFECT)

When Test 14 is initialized, a signal will be output from each terminal.
Verify the EFFECT operation sound by listening.

TEST 15. AUTO SCALING

After selecting Test 15, Voice data appears on the display. select a voice using the LCD Controller, then start the test by pressing L-4[GO] button.
The selected voice is auto scaled from 0 to 127. Adjust the master volume to a moderate listening level. After the test has completed key number 127, additional voices may be tested in the same manner.

TEST 16. BATTERY CHECK

When Test 16 is initialized, the following information appears at the top of the display with either [OK], or [NG] to the right.

"BATTERY (OK)"

TEST 17. FLOPPY DISK

Before initializing the test, insert a 3.5 inch 2DD formatted disk with the write-protect tab set to OFF and perform Test 17. The following will appear at the top of the display with either [OK], or [NG] to the right.

"FDD (- -)"

If the floppy disk is correctly formatted and inserted, the test number and details will appear at the bottom of the display with [OK] to the right.

"FDD (OK)"

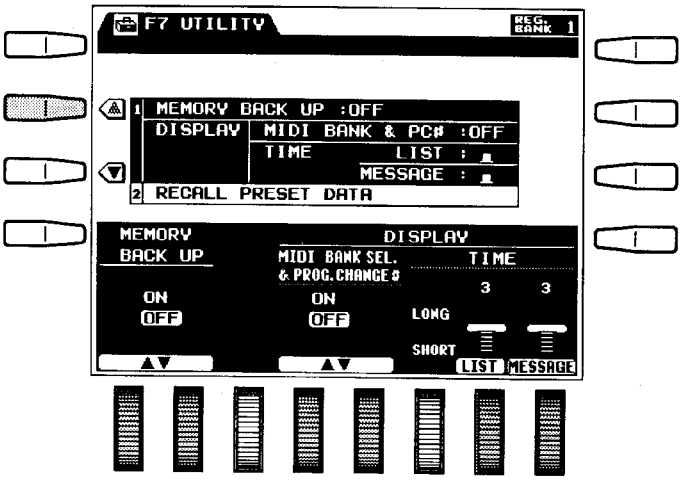
If the floppy disk is not correctly formatted or not correctly inserted, the following will appear at the bottom of the display with [NG] to the right.

"FDD (NG)"

MEMORY BACKUP

● MEMORY BACKUP

This function turns memory backup on or off. Use the **MEMORY BACK UP** LCD dials to turn memory backup **ON** or **OFF**.



NOTES

- *The data backed up (retained in memory even when the power is turned off) by the PSR-7000 are listed above. When memory backup is turned OFF, the initial factory settings are automatically recalled whenever the power is turned on.*

● DISPLAY - MIDI BANK SEL. & PROG. CHANGE #, TIME

Determines whether the MIDI bank select and program change numbers for each voice will be shown along with the voice number and name on the voice list display, and how long the list and message displays remain on the LCD before they disappear.

Use the **MIDI BANK SEL. & PROG. CHANGE #** LCD dials to turn the MIDI bank select and program change numbers **ON** or **OFF**.

Use the **TIME LIST** and **TIME MESSAGE** LCD dials to set the on-screen time of the list and message displays, respectively. The higher the value the longer the on-screen time.

RECALL PRESET DATA

Recalls the specified initial factory settings.

Use any of the LCD dials to select the type of factory preset data you want to recall, then press the **EXECUTE** LCD button — the "Ready to recall preset data" confirmation display will appear.

If you want to execute the recall preset data operation press the **YES** LCD button (or press the **NO** LCD button to cancel the operation). "Completed" will appear briefly when the job is finished.