**SERVICE NOTES**

*First Edition*

Issued by RES

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<td>15/16</td>
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**Specifications**

- **Keyboard**: 88 keys
- **Keyboard action**: Hammer Action mechanism
- **Sound Source**: 64 voices polyphonic
- **Tones**: Piano1, Piano2, Harpsichord, VibrAPHone, El. Piano1, El. Piano2, Pipe Organ, Strings, Honky Tonk* (*in Dual mode)
- **Display**: 7-segment LED / 3 characters
- **Digital effects**: Chorus (7 types), Reverb (7 types)
- **Tuning**: Equal Temperament, Pythagorean, Just (Major/minor), Mean Tone, Werckmeister, Kirnberger.
- **Stretch Tuning**: Two types
- **Key Touch**: 3 levels (Light/Medium/Heavy)
- **Key Transpose**: -6~+5 semitones (Keyboard entry/button Entry)
- **Sequencer**: 2 Tracks (with Track Muting Function) Approx. 5,000 notes
- **Metronome**: .0/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 3/8, 6/8, 9/8, 12/8, adjustable volume (7 levels), adjustable tempo =20~250
- **Jacks**: Headphone Jack x 2 (stereo), Output Jacks (stereo/mono), MIDI Connectors (In/Out), Pedal jack
- **Pedals**: Damper (Soft via special break-out cable, PEDAL jack is stereo)

**Dimensions**: 1360 x 121 x 346 mm

**Net Weight**: 24.0 kg

**Accessories**: See page 6

**Options**: Music rest, MSC series MIDI cables, KC series keyboard amplifiers, RH series headphones, KS series keyboard stand

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**DISASSEMBLY**

Selflock Screw M4x10 TCTC TFR 9.5 COD. J2289221

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### PARTS LIST OF EXPLODED VIEW

<table>
<thead>
<tr>
<th>No.</th>
<th>PART NAMES</th>
<th>PART NUMBERS</th>
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<tbody>
<tr>
<td>1</td>
<td>MUSIC REST</td>
<td>K2198103</td>
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<tr>
<td>2</td>
<td>MUSIC SCORE HOLDER</td>
<td>22208320</td>
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<tr>
<td>3</td>
<td>VARN.+SILK. TOP CABINET</td>
<td>7700904000</td>
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<td>4</td>
<td>RED FELT 1250x12x1.5 mm</td>
<td>K2268121</td>
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<td>5</td>
<td>GUIDE F/POT. COVER</td>
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<td>6</td>
<td>ANTI DUST COVER PL30N</td>
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<td>10</td>
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<td>JACK SOCKET ASSY</td>
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<td>SWITC. POWER SUPPLY SWM18N</td>
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<td>BLACK ADHESIVE FELT 25x1x1240 mm</td>
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### SCREW

- A  SCREW M3x6          | J2289193
- B  SCREW M4x10         | J2289221
- C  SCREW M3x10         | J2289108
- D  SCREW 3,9x16        | J2289213
- E  SCREW 2,9x10 TCTCPR | J2289125
- F  SCREW 3,5x16        | J2289186
- G  MYLAR WASHER E.D.8 I.D.9,5 | J2139119
- H  SELF TAP SCREW 2,9x16 TC TC  | J2289202
- I  SELF TAP SCREW 2,9x10 TC TC  | J2289102

### LOCATION OF CONTROLS

![Roland RD-100 Control Layout](image)

- **PART LIST**
  - **No.**
  - **Part No.**
  - **Description**
  - 1. 00671556  
    Slider Pot NNK-X10-B14
  - 2. 22485192  
    Black Knob W/White Indicator
  - 3. 00900178  
    4-Button Group W/Diff. (Black)
  - 4. 00900156  
    Double Button+Diff. (Black)
  - 5. 0900145   
    Single Button+Diff. (Black)
  - 6. 00900189  
    Black Single Button
  - 7. 00239767  
    Red Display Type LB-603VF
  - 8. 7700905000 Silkscreened Plexiglass
  - 9. 13129160  
    Power Switch SDDL81 TV-5
  - 10. J3449103  
    Universal AC INLET On PCB
  - 11. 13429825  
    5P DIN Socket 2pz YKF51-5054
  - 12. 13449258  
    Jack (Stereo) HLCJ406-01-3080
  - 13. 13449125  
    Jack (Mono) HLCJ520-01-110
  - 14. 13449126  
    Jack (Mono) HLCJ520-01-110

### REAR VIEW

![Roland RD-100 Rear View](image)

- **PART NAMES**
  - 1. MUSIC REST
  - 2. MUSIC SCORE HOLDER
  - 3. VARN.+SILK. TOP CABINET
  - 4. RED FELT 1250x12x1.5 mm
  - 5. GUIDE F/POT. COVER
  - 6. ANTI DUST COVER PL30N
  - 7. PCB CONTROL
  - 8. RIGHT END-BLOCK
  - 9. BORED RIGHT SIDE PANEL
  - 10. MAIN BOARD ASSY
  - 11. JACK SOCKET ASSY
  - 12. SWITC. POWER SUPPLY SWM18N
  - 13. PRIMARY ASSY
  - 14. POWER SWITCH KNOB (BLACK)
  - 15. BORED LEFT SIDE PANEL
  - 16. RIGHT END-BLOCK
  - 17. VARN+SILK.BOTTOM CABINET
  - 18. PRESSURE RUBBER SFF-018
  - 19. 88-KEY KEYBOARD ASSY TP/10 MDF
  - 20. BLACK ADHESIVE FELT 25x1x1240 mm
KEYBOARD PARTS LIST
88 KEY TP10MDF KEYBOARD ASSY  code : 7699905000

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### Parts List RD-100 (117V/230V/230VE/240VA)

#### Safety Precautions:
- Before applying power to the unit, ensure all connections are properly made. Use only listed parts for replacement.

#### Note:
- Replacement should be made on a unit basis. No replacements available for individual parts. Replacement only by a unit.

### MTV-9500 Switching Power Supply

- **Casing:**
  - Jack PCB ASSY (J1)
  - Control PCB ASSY (J2)
  - Main PCB ASSY (J3)
  - Ribbon Cable ASSY (J4)

- **Board:**
  - I.C. ROM U1M55X4 VR
  - I.C. CMOS U2M6964
  - I.C. CMOS U3M6964
  - I.C. CMOS U4M6964
  - I.C. CMOS U5M6964

- **Components:**
  - Resistors (R1-R5, R7-R10)
  - Capacitors (C1-C10)
  - Inductors (L1-L5)
  - Transistors (Q1-Q10)

#### Note:
- Use only listed parts for replacement.
- The parts marked have safety-related characteristics.

#### Capacitor

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<tr>
<th>QTY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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</table>
| 250 | 100V U1M55X4 | \(100 \mu F \times 100 \text{V}
| 10  | 47 \mu F \times 50 \text{V} |
| 10  | 10 \mu F \times 50 \text{V} |

#### Inductor, Coil, Filter

- **Inductor:**
  - C1: 10 \mu H
  - C2: 100 \mu H
  - C3: 1 nH

- **Capacitor:**
  - C1: 100 \mu F
  - C2: 10 \mu F

#### Crystal Resonator

- **QTY**
  - Quartiz 16,000 MHz MA-406

#### Connector

- **QTY**
  - Connector 20P FEM. CONNECTOR AMP 1.27

- **QTY**
  - Connector 4P MALE CONNECTOR P.2 M

- **QTY**
  - Connector 10P MALE CONNECTOR P.2 M

- **QTY**
  - Connector 4P SCREW CLAMP P.10

#### Wiring, Cable

- **QTY**
  - Cable Assy (4) 2P C2 P2

For details, refer to **KEYBOARD PARTS LIST (Page 4)**
AC INLET

J3449103 UNIVERSAL AC INLET

SCREW

J2289102 SELF TAP/SCREW 2.9X10 T/C TC
J2289108 SELF LOCK/SCREW M3X10 T/C TC H.6
J2289113 NUT 3MA H.3
J2289166 SCREW 3.5X16 T/C PR TFR H.8 BRUN
J2289193 SELF LOCK/SCREW M5X8 T/C TC H.6
J2289202 SELF TAP/SCREW 2.9X16 C C
J2289213 SELF TAP/SCREW 3.5X16 T/C TC
# J2289221 SELF LOCK/SCREW M4X10 T/C TC TFR 9.5
# J2289222 NUT 10MA TH.8

PACKING

# K2638211 RIGHT LDPE PROTECTION RD-100
# K2638212 LEFT LDPE PROTECTION RD-100
# K2638213 CENTRAL LDPE PROTECTION RD-100
# K2638214 LDPE PROTECTION F/PEDAL RD-100
K2678119 CARTENE ENVELOPE HD CM 170X56
# K2618207 OUTER PACKING RD-100

MISCELLANEOUS

J2139119 MYLAR WASHER E.D.8 I.D.4
K2168102 SPACER FOR LED H.2.8 D.E. 5.5
K2168109 SPACER FOR LED H.15 - D.E. 5.5
K2168112 LED SPACER H. 4.5 MAX 9 MM
J3359105 PRESSURE RUBBER SFF-018
K2268112 FELT MM 1250X12X1.5
K2368129 ANTI DUST COVER PL30N
K2268148 ADHESIVE BLACK FELT 25X1X1.240
# K253810302 FUSE WARNING LABEL

ACCESSORIES

# J3439150 MAINS CABLE H05VV+POL SOCKET (230V)
# J3439128 CABLE 4983SJTD 2X18 AWG-C17 (17V)
13499152B CABLE BS/13H05V5-F300.75-V (230VÉ)
# J3439167 MAINS CABLE 5A2/0.5H05V5V 2X1-C17 (240VÉ)
# K6018342 O.MANUAL (E/D/F/I/SP/DUTCH) RD-100
J3059103 PEDAL WCABLE

Note: Replacement should be made on a unit basis. No replacements available for individual parts. Replacement only be a unit.
BLOCK DIAGRAM

CONTROL BOARD

MAIN BOARD

JACK BOARD

POWER SUPPLY

KEYBOARD 88 KEYS

-15V +15V +5V

POWER SWITCH

AC INLET

IC10, IC11, IC18

IC3, IC4, IC2, IC19

IC6

IC16

IC9, IC15

IC7

IC2

Q6

Q7

Q8

Q1, Q2, Q3

RESET MUTING

SQUELCH CONTROL

IC1, IC2

OUTPUT BUFFER

PHOTO BUFFER

WAVES ROM

IC12

IC13, IC14

IC17

SRAM

ROM

SRAM

WAVE ROM

CPU

MAIN BOARD

LED SW

MATRIX

VOLUME

BRILLIANCE

DAMPSWITCH

OUTPUT 1

PHONES 1

PHONES 2

OUTPUT BUFFER

MIDI IN

MIDI OUT

DAMP/SOFT

SWITCH

BRILLIANCE VOLUME

OP

CONTROL BOARD

LED+SW

MATRICE

OUTPUT

MAIN BOARD

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OUTPUT
MAIN PCB ASSY
ASSY 7700903000
JACK PCB ASSY  ASSY  7700902000

View from component side
TEST MODE

Necessary elements: Nr. 1 - Midi Cable
Nr. 1 - 2-note Pedal

How to enter the Test Mode:

After turning on the instrument, press the "Transpose", the "Play" and the "Track 2" buttons simultaneously. The 7-seg display will show:

RD-100 will automatically enter the Test Mode.

1 : How to display the DEVICE CHECK and the ROM VERSION.

After entering the Test Mode, the CPU automatically carries out the DEVICE CHECK. If there is no malfunction, the 7-seg LCD shows the ROM version:

In the event of a malfunction, one of the following messages is displayed:

ROM

SRAM

WAVE ROM

DRAM

When a malfunction is found out, the LCD shows the ROM version if the "Piano 1" button is pressed.

How to select the next check

Press the "Transpose" button and go on with the next step.

NOTE: Don’t play on the keyboard while you’re in Test Mode.
If there is any malfunction, press the "Transpose" button more than once until the following message is displayed:

To start the testing procedure again, press the "Transpose" button.

2 : Button and LED check

Press the "Transpose" button and the 7-seg LCD will show:

All the LEDs on the control panel are lit; if you press any button, you’ll hear a piano sound and the corresponding LED will alternatively turn off. When you press a button without LED, the following LED or 7-seg LED will correspondingly turn off as shown below:

Button | Corresponding Led
--- | ---
Key Touch | Light, Medium, Heavy
Beat + | Demo
Beat - | Beat
Tempo + | User
Tempo - | Tempo
Song + | Display
Song - | Display

Note: Unless this button check is performed on all buttons, you cannot proceed to the next stage.

3: Effect check

Press the "Transpose" button and the 7-seg LED display shows:

Some LEDs of the buttons on the control panel are flashing; if you press the following buttons, you’ll hear the corresponding sounds indicated below:

Button | Sound signal
--- | ---
Piano 1 | Direct sound of Piano 1
Piano 2 | Chorus sound of Piano 1
Harpischord | Reverb sound of Piano 1
Vibrafono | Resonance sound of Piano 1
Electric Piano 1 | Sine Wave from the left speaker
Electric Piano 2 | Square Wave from the right speaker
Pipe Organ | Sine Wave from both speakers
4 : A/D Check

Press the "Transpose" button and the 7-seg display shows:

Press each of the following pedals. Their corresponding LEDs will turn on as shown below. A value (0~10) will appear on the 7-seg display and a sine wave sound will be heard. When the value shown is '0', no sound can be heard; when the value is "10" a bell sound will be heard.

<table>
<thead>
<tr>
<th>Items for A/D check</th>
<th>LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Damper Pedal</td>
<td>Demo</td>
</tr>
<tr>
<td>Soft Pedal</td>
<td>Beat</td>
</tr>
</tbody>
</table>

5 : MIDI check

Press the "Transpose" button and the 7-seg display shows:

Hook up MIDI IN and MIDI OUT sockets via a MIDI cable and make sure that the 7-seg display shows:

6 : How to finish or start the test again

Press the "Transpose" button and the 7-seg display shows:

If you press this button again, you'll go back to the beginning of the Test Mode and the display will show:

To exit the Test Mode definitely, turn the instrument off and then on again.