APPLICABLE SERIAL NUMBERS 182000 AND ABOVE.

To keep up with latest electronic developments, Roland changes BBD to improved version. This also relieves the factory from employing only BBDs selected among its stocks.

Although the BBD and BBD driver are incompatible with old ones, PCB assemblies are interchangeable.

Adjusting procedure and values of the first edition remain unrevised and should be referred to as necessary.

CHANGE ON PARTS

Relocation of leading-in hole. To the top.

(P/No = same)

<table>
<thead>
<tr>
<th></th>
<th>OLD</th>
<th>NEW</th>
<th>COMPATIBILITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB</td>
<td>ET5214-510A (7521451005)</td>
<td>ET5214-510A (7521451005)</td>
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</tr>
<tr>
<td></td>
<td>(pcb 2291045803)</td>
<td>(pcb 2291045803)</td>
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<tr>
<td>TRANSISTOR</td>
<td>2SC945-P (15129108)</td>
<td>2SC945-P or 2SC1685-R (151291290R)</td>
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<tr>
<td>ZENER</td>
<td>RD11E83 (15019547)</td>
<td>RD11F83 (15019633)</td>
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<tr>
<td>BBD DRIVER</td>
<td>MN3101 (15169504)</td>
<td>MN3102 (15219214)</td>
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<tr>
<td>BBD</td>
<td>MN3005 (152192040A)</td>
<td>MN3205 (15219214)</td>
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<tr>
<td>JACK</td>
<td>SG-7622 (13449106)</td>
<td>SG-7615 (13449105)</td>
<td>YES</td>
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<tr>
<td>R2</td>
<td>100Ω</td>
<td>330Ω</td>
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</tbody>
</table>
**SERVICE NOTES**

**First Edition**

**SPECIFICATIONS**
- **Power**: Battery 9V(12), AC Adapter 10mA at 9V
- **Current draw**: 20mA - 300mA
- **Delay time**: 20ms - 300ms
- **Residual noise**: Less than 100dBm (M/F-A)
- **Input impedance**: 470kΩ
- **Output load impedance**: Over 10kΩ
- **Dimensions**: 210W x 55H x 125D mm
- **Weight**: 450g

**Parts List**
- Case K-134
- Pedal N-520
- Cover N-116 bottom
- Base N-305 bottom
- Base N-304 pedal mat
- Guide bushing K-702
- Switch H-305 pcb
- Spacer B-500 pcb
- Spring coil E-109
- A1001 0.1µF chip cap.
- PCB 7251415001 ET5214-510 assy (pcb 2291045001)
- TDA2010 2291049000 LED mounting, less parts
- 1539212 VM10415 1KB
- 1539213 VM10415 50KB

**Adjustment**
- **Clock**: Set VR3 for 7-14µsec (6.8kΩ).
- **Red Switch**: Set VR3 for 7-14µsec (6.8kΩ).
- **Input Signal**: 04m 200Hz sine wave into INPUT jack.
- **Clock Setting**: Turn VR5 to converge two outputs so that clock component is minimum at output pin with no input signal.

**Semiconductor**
- 1539201 2SK340 (Kn) T-Y CRT
- 1539200 2SK340 P transistor
- 1539204 2SK3727Y-GR transistor
- 1501003 1247Y slider
- 1501026 R5.63 B-3 zener
- 1501047 ROL16-3 zener
- 1502013 KL-1558 LED
- 1509005 μC45500 BF-644 Dual op amp
- 1509008 BK8705 comparator
- 1500020 MV101 LED driver
- 1509004 MS105 EBD 4065 stages

**Potentiometer**
- I525912 VM10415 1KB
- I525913 VM10415 50KB

**Roland**

**Notice**
- The diagram and text are for reference only. Actual component values may vary.
- Please consult the manual for detailed instructions.

**Note**
- The document is a service manual for the BOSS DM-2, focusing on specifications, parts list, and adjustment details.