## BOSS HM-2 SERVICE NOTES

### SPECIFICATIONS

- **Power:** 9V DC (battery or AC adaptor)
- **Current draw:** 10mA — 99V
- **Input Impedance:** 1Ω
- **Dimensions:** 70(W) x 65(H) x 126(D) mm
- **Weight:** 400g — 14 oz

### WAVEFORM CHECK

1. Feed the test signal to INPUT of the HM-2.
2. Connect the scope to OUTPUT of the HM-2.
3. Push Pedal once if the LED is lit (EFFECT OFF).

<table>
<thead>
<tr>
<th>CHECK</th>
<th>INPUT</th>
<th>SET CONTROLS</th>
<th>WAVEFORM &amp; REMARK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. DISTORTION</td>
<td>200Hz</td>
<td></td>
<td><img src="image1" alt="Waveform" /> 500mVp-p</td>
</tr>
<tr>
<td>2. COLOR MIX H</td>
<td></td>
<td></td>
<td><img src="image2" alt="Waveform" /> 2.2Vp-p</td>
</tr>
<tr>
<td>3. COLOR MIX L</td>
<td></td>
<td></td>
<td><img src="image3" alt="Waveform" /> 500mVp-p</td>
</tr>
</tbody>
</table>

### PARTS LIST

- **PCB**
  - Parts: 722335000 (pcb 229105902-1/2) MAIN
  - Parts: 722335000 (pcb 229105900-1/2) VOLUME

- **SEMICODUCTOR**
  - Parts: 1189136 M5217L Dual OP amp
  - Parts: 1189136 M5217L Dual OP amp

- **SWITCH**
  - Parts: 13449120 SW-0064 KEY

- **POTENTIOMETER**
  - Part: 13279714 EVJ-2KAK15G14 LEVEL
  - Part: 13279714 EVJ-2KAK15G14 LEVEL

### NOTES

- The indicator fails to light when the DC is below 6V.
- The amplitudes in the table are taken with accurate 9V source and will vary as voltage fluctuates.

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If one or more waveforms seem wrong, proceed to the following steps.

The unit will show a peak at three frequencies (FL, FH1 and FH2). Check each peak for conformity with specifications.

- **FL:** 90 ± 10Hz
  - Level: boosted by 21 ± 2dB when L pot travels from the center to FCW.

- **FH1:** 950 ± 50Hz
  - HF: 1.3K ± 200Hz
  - Level: boosted by 21 ± 2dB when H pot travels from the center to FCW.

- **GAIN**
  - Parts: 10019120 X21.1K-3 Zener
  - Parts: 10019120 X21.1K-3 Zener

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*Printed in Japan BE-2 1*