MVP841
DVD/VIDEO CD/CD PLAYER

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McIntosh
SERVICE MANUAL
PERFORMANCE SPECIFICATIONS

VIDEO SPECIFICATIONS
Signal System: NTSC
Component Video Y Output Level: 1Vp-p (75 ohm)
Component Video PB Output Level: 0.7Vp-p (75 ohm)
Component Video PR Output Level: 0.7Vp-p (75 ohm)
Output Connector: RCA Jack (Y: Green, PB: Blue, PR: Red)
S-Video Output Level: 1Vp-p (75 ohm)
S-Video C Output Level: 0.286Vp-p (75 ohm) (NTSC)
Output Connector: Mini DIN
Video Output Level: 1Vp-p (75 ohm)
Output Connector: RCA Jack

AUDIO SPECIFICATIONS
Number Of Channels: 2
Output Level: 2.2Vrms
DVD Frequency Response: 4-22kHz (48kHz Sampling, Linear Audio)
CD Frequency Response: 4-20kHz
CD Signal To Noise Ratio: Better than 110dB (A-weighted)
DVD Dynamic Range: Better than 100dB (Linear Audio)
CD Dynamic Range: Better than 98dB
Harmonic Distortion: 0.003% (1kHz)
Channel Separation: Better than 110dB (1kHz)

DIGITAL AUDIO OUTPUT
Optical: -15dbm to -21dbm
Coaxial: 0.5V p-p/75 ohm

Output Connector: Optical Connector
Output Connector: RCA Jack
Digital Signal Format: 44.1kHz, 48kHz and 96kHz

PICKUP
Laser Power: CLASS II
Laser Beam Wavelength: 655nm

GENERAL SPECIFICATIONS
Power Requirements
100 Volts, 50/60Hz at 30 watts
110 Volts, 50/60Hz at 30 watts
120 Volts, 50/60Hz at 30 watts
220 Volts, 50/60Hz at 30 watts
230 Volts, 50/60Hz at 30 watts
240 Volts, 50/60Hz at 30 watts
Note: Refer to the rear panel of the MVP841 for the correct voltage.

Dimensions
Front Panel:17-1/2 inches (44.5cm) wide, 5-3/8 inches (13.7cm)
high, depth behind front mounting panel is 15 inches (38.1cm)
including clearance for connectors. Panel clearance required in front
of mounting panel is 3/4 inch (1.9cm).
Note: When the DVD/CD tray is opened, the panel clearance required in
front of mounting panel is 6-3/4 inches (17.2cm).

SAFETY INFORMATION

NOTES

1. The heavy notes on the schematic denote the primary
   signal path.

2. Unless otherwise noted, all voltages indicated on the
   schematics are measured under the following conditions:
   a. AC input at 120 volts, 50/60Hz.
   b. All voltages are +/-10% with respect to ground. A
      high impedance (10 megaohm) voltmeter must be used.

3. Unless otherwise specified:
   a. Resistor values are in ohms.
   b. Capacitor values are microfarads (uF).
   c. Inductor values are in microhenries (uH).

CAUTION: The use of optical instruments with this
product will increase eye hazard.

Invisible laser radiation is emitted from the optical
pickup lens when the unit is turned on.

1. Do not look directly into the pickup lens.
2. Do not use optical instruments to look at the pickup
   lens.
3. Do not adjust the preset variable resistor on the
   optical pickup.
4. Do not disassemble the optical pickup unit.
5. Use of controls or adjustment or performance of
   procedures other than those specified herein may
   result in hazardous radiation exposure.
6. Replace optical pickup only with manufacturers
   specified type.

4. On PC board drawings, Square pad indicates:
   a. Polarized Capacitors - Positive
   b. Diodes - Cathode
   c. Others - Pin 1

5. WARNING
   Parts marked with the symbol ▲ have critical
   characteristics. Use only replacement parts recom-
   mended by the manufacturer.

LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

VAROITUS! Laitteen käyttämisen muilla kuin tassa
kayttoohjeessa mainitulla tavalla saattaa altistaa
kayttajan turvallisuusluokan 1 ylittavalle
nakymattomalle lasersateiylle.

WARNING! Om apparaten anvands pa annat satt an i
denna bruksanvisning specificerats, kan användaren
utsatts for osynlig laserstraining, som overskrider
gransen for laserklass 1.
REAR PANEL

SECTION LOCATIONS

TOP VIEW WITH COVER REMOVED

- Transformer
- DVD mechanism
- Clamp support plate
- Main PCB
- Connector PCB
- Display PCB
- Audio/video/power supply PCB

CAUTION: INVISIBLE LASER RADIATION. WHEN OPEN, DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
In the event it is necessary to repack the unit for shipment, the unit must be packed exactly as shown below.

**IMPORTANT** - The four plastic feet must be attached to the bottom of the unit so they will locate in the four holes of the bottom pad. Failure to do this will result in shipping damage.

If a shipping carton or any of the interior parts is needed, please call or write the Customer Service Department of McIntosh Laboratory. Order parts from the accompanying list by part number.

Use the original shipping carton and interior parts only if they are in good serviceable condition.

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>034075</td>
<td>Shipping carton only</td>
</tr>
<tr>
<td>4</td>
<td>033837</td>
<td>Foam end cap</td>
</tr>
<tr>
<td>1</td>
<td>034076</td>
<td>Inside carton only</td>
</tr>
<tr>
<td>1</td>
<td>033726</td>
<td>Top pad</td>
</tr>
<tr>
<td>1</td>
<td>034036</td>
<td>Bottom pad</td>
</tr>
<tr>
<td>1</td>
<td>034077</td>
<td>Inner carton pad</td>
</tr>
<tr>
<td>4</td>
<td>017218</td>
<td>Plastic foot</td>
</tr>
<tr>
<td>4</td>
<td>100159</td>
<td>#10-32 x 3/4&quot; Machine screw</td>
</tr>
<tr>
<td>4</td>
<td>104083</td>
<td>#10 x 7/16&quot; Flat washer</td>
</tr>
<tr>
<td>1</td>
<td>049270</td>
<td>Shipping carton complete with all the above parts</td>
</tr>
</tbody>
</table>
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