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SERVICE MANUAL
PERFORMANCE SPECIFICATIONS

Audio Specifications

Number of Channels
2 and 5.1

Output Level
2.0Vrms Balanced (2 Channel Output)
2.0Vrms Unbalanced (2 Channel Output and 5.1 Channels)

Output Impedance
600 ohms Balanced (2 Channel Output)
600 ohms Unbalanced (2 Channel Output and 5.1 Channels)

Audio Frequency Response (DVD-Video)
4Hz to 22,000Hz (48kHz Sampling, Linear Audio)
4Hz to 44,000Hz (96kHz Sampling, Linear Audio)

Audio Frequency Response (DVD-Audio)
4Hz to 88,000Hz (192kHz Sampling)

CD Frequency Response
4Hz to 20,000Hz

CD Signal to Noise Ratio
Better than 100dB (A-weighted)

Dynamic Range (DVD)
Better than 100dB (Linear Audio)

Dynamic Range (CD)
Better than 98dB

Harmonic Distortion
0.003% (1,000Hz)

Channel Separation
Better than 110dB (1,000Hz)

Video Specifications

Signal System
NTSC

Component Video Output Level
Y Output Level 1.0Vp-p (75 ohm)
P
definition Output Level 0.7Vp-p (75 ohm)
P
definition Output Level 0.7Vp-p (75 ohm)

S-Video Y Output Level
1Vp-p (75 ohm)

S-Video C Output Level
0.286Vp-p (75 ohm) (NTSC)

Video Output Level
1Vp-p (75 ohm)

General Specifications

Digital Output
Optical: -15dbm to –21dbm
Coaxial: 0.5V p-p/75 ohm

Digital Signal Format
Sampling Frequencies: 44,100Hz, 48,000Hz and 96,000Hz

Transport
Laser Beam Wavelength: 658nm/790nm
Laser Power: CLASS IIa/CLASS I

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 MVP851 for the correct voltage.

Overall 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).

Weight
20 pounds (9.1kg) net, 34 pounds (15.4kg) in shipping carton
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).

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 recommended by the manufacturer.

6. Use McIntosh Remote Control Model HR040 with the MVP851.

SAFETY INFORMATION

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

This product utilizes a Class I laser. 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.

Laser output: CLASS IIa/CLASS I
Wavelength: 658nm/790nm

This product utilizes an embedded Class IIa laser (IEC825).

LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

VAROITUS! Laitteen käyttäminen muulla kuin tassa käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittäville näkymättömälle lasersateilyille.

WARNING! Om apparaten används pa annat satt an i denna bruksanvisning speciferats, kan användaren utsattas for osynbg laserstraining, som overskriver gransen for laserklass I.
NOTES
REAR PANEL

SECTION LOCATIONS

TOP VIEW WITH COVER REMOVED

CAUTION: INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

AUDIO/VIDEO/POWER SUPPLY PCB

MODULE PCB

MECHANISM

TRANSFORMER

DISPLAY PCB

DVD MECHANISM

CLAMP SUPPORT PLATE DO NOT REMOVE
WARNING Parts located in the shaded areas have critical characteristics. Use only replacement parts recommended by the manufacturer.
2 AUDIO/VIDEO POWER SUPPLY 049773
EXPLODED VIEW AND PARTS LIST

Ref No. | Part No. | Description
--- | --- | ---
1 | 016482 | GLASS
2 | 017531 | PUSHBUTTON ASSY RED
3 | 017517 | PUSHBUTTON ASSY BLK
4 | 078033 | O-RING
5 | 148073 | SWITCH DPDT ROCKER
6 | 017781 | BEZEL FRONT
7 | 092419 | FILTER DISPLAY
8 | 094016 | TAPE FOAM 1/4 X 1/8
9 | 096113 | CORD DIAL 0.027 BLACK BRAID SILK
10 | 018706 | EXTRUSION BOTTOM
11 | 100147 | SCREW MACH 6-32 X 3/16 PHIL.
12 | 018585 | EXTRUSION TOP
13 | 017906 | GUIDE PCB
14 | 094360 | TAPE FOAM 1/2 X 1/2
15 | 094017 | TAPE FOAM 1/4 X 1/4
16 | 095000 | BRACKET EXTRUSION
17 | 018611 | ENDCAPE
18 | 103042 | SCREW-TX 4-40 X 1/2 SLOT FILLISTER
19 | 049774 | ASSY PCB DISPLAY
20 | 017901 | LOGO PUSHBUTTON BACKLIGHT
21 | 017902 | SUPPORT PCB LOCKING ADHESIVE BASE
22 | 005258 | SUB PANEL
23 | 017900 | DOOR MOLDING MVP851
24 | 100271 | SCREW MACH 6-32 X 1/4 PH PN
25 | 100300 | SCREW MACH SEMS 6-32 X 1 PH PN
26 | 104005 | WASHER PLAT STEEL 6 X 3/8 X .032
27 | 005257 | CHASSIS
28 | 090056 | SPRING
29 | 100180 | SCREW MACH 6-32 X 1/8 PH PN
30 | 094773 | ASSY PCB AV-PWR
31 | 320118 | ASSY PCB DVD MODULE
32 | 101222 | SCREW TT SEMS 6-32 X 1/4 PH PN
33 | 005262 | BRACKET CABLE
34 | 159334 | TRANSFORMER R-CORE POWER
35 | 117600 | MTA CONNECTOR 8 PIN 156
36 | 112263 | STANDOFF 6.35 X 1.250
37 | 005259 | REAR PANEL
38 | 117755 | RECEPTACLE INPUT & LINE FILTER
39 | 102001 | NUT KEP 4-40 Cadium Plate
40 | 102020 | NUT MACH 6-32 SELF LOCK
41 | 101197 | SCREW 16 LO 4-24 X 3/8 PHRD BLK
42 | 017218 | FOOT PLASTIC BLACK
43 | 100803 | WASHER #10 PLATED 1014062
44 | 101159 | SCREW MACH 10-32 X 3/4 PH PN BLK
45 | 005102 | COVER TOP
46 | 100878 | SCREW TAP 8-32 X 5/16 PH PN BLK
REPACKING INSTRUCTIONS

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. Enter 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>033857</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 above parts</td>
</tr>
</tbody>
</table>

TOP PAD
UNIT WITH (4) FEET ON BOTTOM COVER
PLASTIC FOOT (4)
10-32 x 3/4" SCREW WITH WASHER (4)
BOTTOM PAD
INNER CARTON PAD
INSIDE CARTON

END CAP (4)
INSIDE CARTON
SHIPPING CARTON

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