

Mark Levinson №536 Monaural Amplifier

Talking Points

Todd Eichenbaum / Version 1, 5 January 2015



Basic Features

Monaural, class AB power amplifier

400 watts into 8 ohms

800 watts into 4 ohms

Fully discrete and differential signal path, input to output

High linearity, low feedback design

Voltage gain and driver stages operate in class A

Direct coupled—no capacitors in the signal path

Unit Overview



- Red: Output stages
- Orange: High-current/high-voltage linear power supplies
- Pink: Driver board—bias circuitry
- Violet: Input board—voltage gain circuitry
- Blue: Custom-designed, high-efficiency heat sinks
- Green: Binding post board with two sets of Hurricane terminals for bi-wiring
- Yellow: Toroidal transformer
- Bottom: Voltage Select board and Control board

Output Stage and Power Supply



Output Stage

- Red: Twelve discrete, 15-amp, 260-volt, 200-watt, TO-264 bipolar output transistors per output stage (24 per unit)
- Yellow: Twelve discrete, 230-volt, 70-MHz, TO-220 bipolar driver transistors per output stage, one for each output transistor (24 per unit)

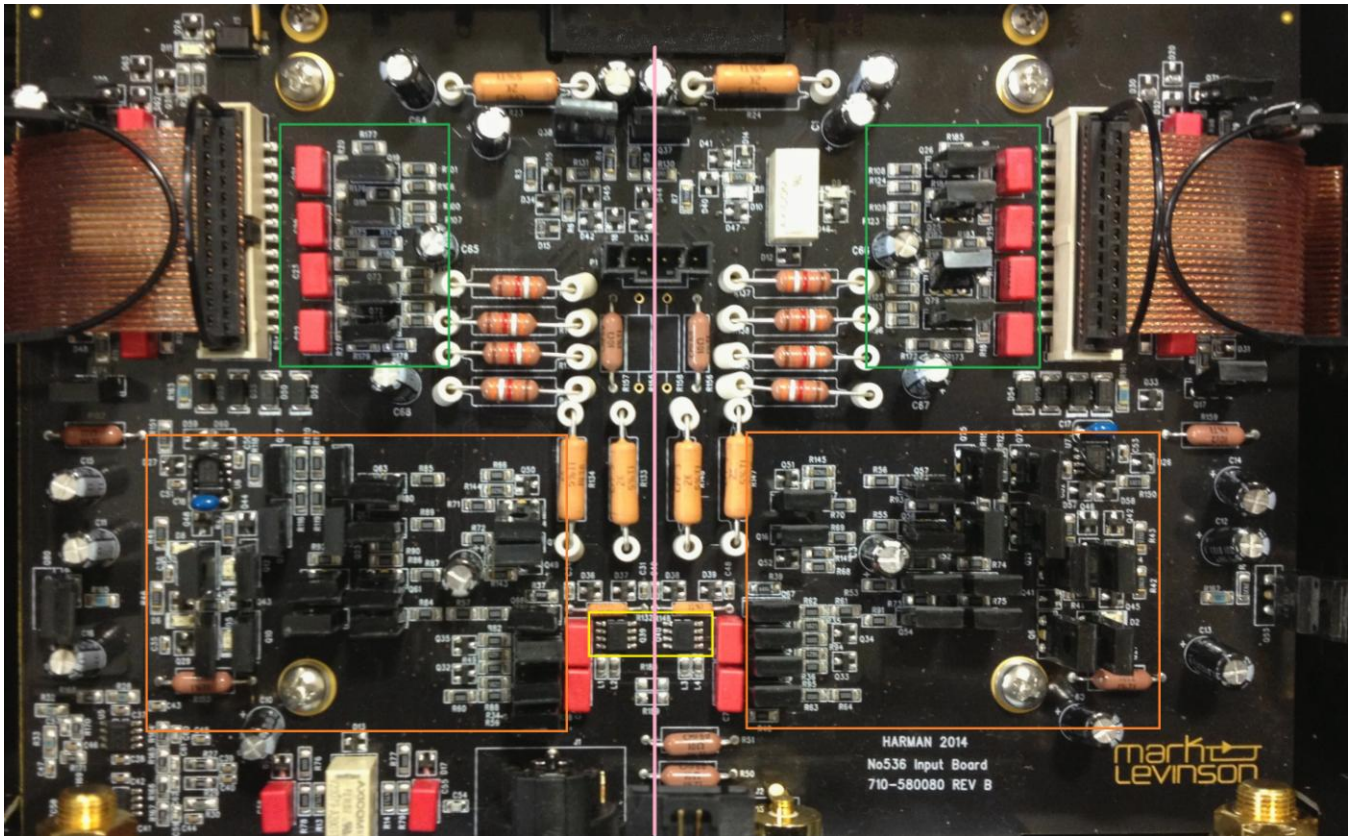
Power Supply

- Orange: Eight discrete, high speed, 40-amp, 250-volt, TO-220 Schottky rectifiers per output stage (16 per unit), with heat sink clamp
- Green: Filter capacitors, 18 per output stage (36 per unit), for a total of 169,200 microfarads of storage capacitance

Transformer

Custom-designed, low noise toroid, rated for 1800 VA total continuous power
Separate secondary windings for each output stage

Input and Voltage Gain Stage



- Yellow: Two matched-pair, low-noise, high-gain, dual JFET input transistors
- Orange: Discrete voltage gain circuitry, fully balanced
- Green: Discrete, TO-126 bipolar pre-driver transistors
- Pink: Note mirror-image symmetry either side of this center line