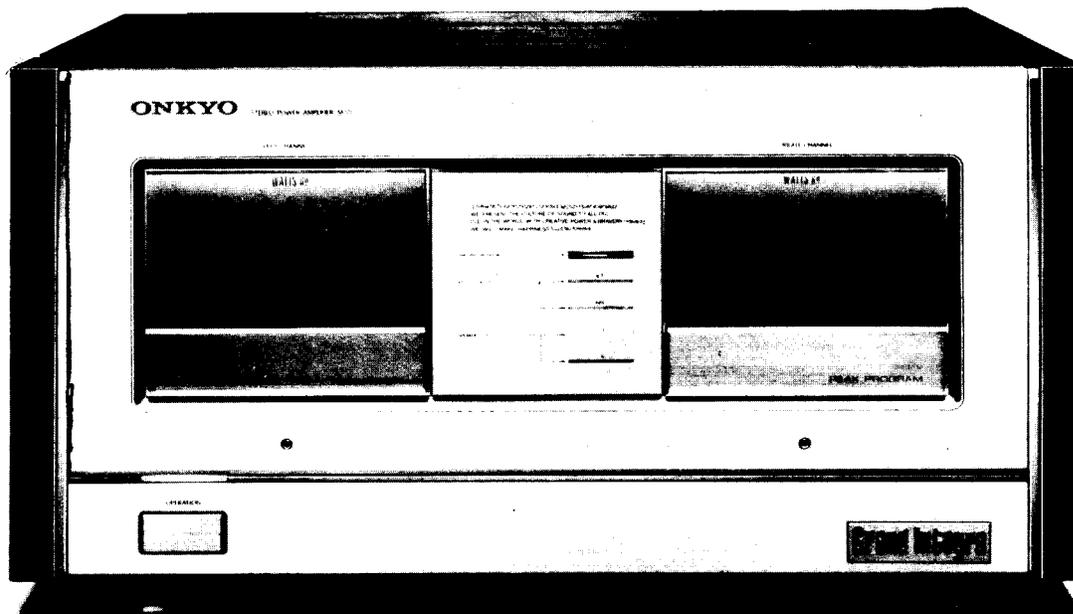


ONKYO® SERVICE MANUAL

Power Amplifier

Grand Integra M-510



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|----|---------------|
| UD | 120V AC, 60Hz |
|----|---------------|

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PARTS NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

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SPECIFICATIONS

Power Output: 300 watts per channel, RMS into 8 ohms
500 watts per channel, RMS into 4 ohms
800 watts per channel, RMS into 2 ohms

IHF Dynamic Power Output

>400 watts per channel, 8 ohms
>750 watts per channel, 4 ohms
>1.3 kilowatts per channel, 2 ohms
>2.1 kilowatts per channel, 1 ohm

Harmonic Distortion: <.005%

Intermodulation Distortion: <.003%

Power Bandwidth (IHF) 5 Hz to 100 kHz, -3 db, THD .2%

Gain: 33.8 db

Frequency Response: 1 Hz - 100 kHz, +0, -1.5 db

Input Sensitivity: 1 Volt for full output

Input Impedance: 20 kOhm (direct inputs)

S/N, A weighted: 120 db

Load Impedance: 1 ohm to 16 ohms, nominal speaker impedance
4 ohms to 16 ohms, EIAJ specification

Damping Factor: >300; 8 ohms at 50 Hz

Meter Range: 44 db

Meter Accuracy: 0 db indicated: + or - 1 db
-10 db indicated: + or - 2 db
-20 db indicated: + or - 3 db

Meter Rise Time: Minimum to 0 db - 100 microseconds

Decay Time: 0 db to -20 db - 1 second

Power Requirement: 120 Volts, 60 Hz (USA model)

Power Consumption: 720 watts EIAJ specification
160 watts idle, no signal

Dimensions: 507 mm wide X 264 mm high X 512 mm deep

Weight (Shipping): 72 Kg 160 lbs.