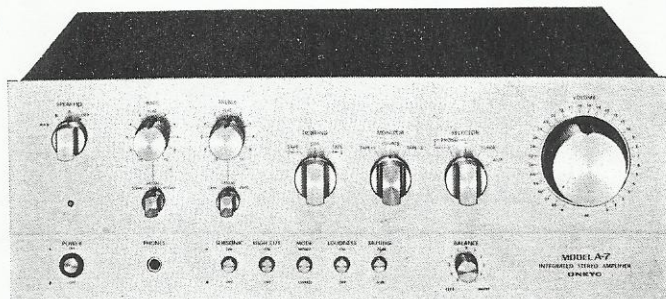


# ONKYO® SERVICE MANUAL

## INTEGRATED STEREO AMPLIFIER

### Model A-7



## SPECIFICATIONS

### Model A-7 Integrated Stereo Amplifier

#### Power Supply Rating

AC 120 Volts 60 Hz (USA Model)  
AC 110V/120V/220V/240V  
50Hz/60Hz (Universal Model)

#### Controls

POWER  
SPEAKERS (OFF, A, B, A+B)  
SELECTOR (PHONO 1, PHONO 2,  
TUNER, AUX)  
TAPE MONITOR (TAPE 1, SOURCE,  
TAPE 2)  
TAPE DUBBING (TAPE 2-1, OFF, TAPE  
1-2)  
VOLUME, BALANCE, BASS, TREBLE,  
TURN OVER SWITCH  
BASS (125Hz, DEFEAT, 400Hz)  
TREBLE (2kHz, DEFEAT, 8kHz)

#### Outputs

MUTING, LOUDNESS,  
MODE, HIGH FILTER,  
SUB-SONIC FILTER  
SPEAKER A & B, PHONES  
TAPE REC 1 & 2,  
PRE OUT

#### Inputs

PHONO 1 & 2  
TUNER  
AUX  
TAPE PLAY 1 & 2  
MAIN IN

#### Dimensions

17½"(W) x 6¼"(H) x 15"(D)

#### Weight

444 x 159 x 380 mm  
29.7 lbs. 13.5 kg.

### Power Amplifier Section

#### Power Output (through AUX inputs)

70 watts per channel, min. RMS, at 4  
Ohms both channels driven, from 20 Hz to  
20 kHz, with no more than 0.1% total  
harmonic distortion.  
65 watts per channel, min. RMS, at 8  
ohms both channels driven, from 20 Hz to  
20 kHz, with no more than 0.1% total  
harmonic distortion.  
75 watts per channel, min. RMS, at 4  
ohms both channels driven, 1 kHz, 0.1%  
total harmonic distortion.  
68 watts per channel, min. RMS, at 8  
ohms both channels driven, 1 kHz, 0.1%  
total harmonic distortion.

Total Harmonic  
Distortion (AUX)  
IM Distortion (AUX)  
(70Hz : 7kHz = 4 : 1)  
Frequency Response  
Tilt  
Signal to Noise Ratio  
Damping Factor  
Rated Input  
Input Impedance  
Load Impedance

0.1% at rated power  
0.08% at 1 watt output  
0.1% at rated power  
0.08% at 1 watt output  
2-80,000 Hz (±1 dB)  
better than 5% at 50 Hz  
110 dB (IHF A NETWORK)  
50 at 8 ohms  
1.5 volts  
100 k-ohms  
4-16 ohms

### Preamplifier Section

#### Input Sensitivity & Impedance

PHONO 1 & 2: 2.5mV, 50 k-ohms  
TUNER: 150mV, 50 k-ohms  
AUX: 150mV, 50 k-ohms  
TAPE PLAY 1 & 2: 150mV, 50 k-ohms  
0.05% at rated output

Total Harmonic  
Distortion  
IM Distortion  
(70Hz : 7kHz = 4 : 1)  
Frequency Response

0.08% at rated output

Phono Overload  
Signal to Noise Ratio

PHONO: ±0.2 dB at 30-15,000 Hz  
AUX: +0, -1 dB at 10-50,000 Hz  
230mV RMS. at 1 kHz, 0.1% THD.  
PHONO: 80 dB (IHF A NETWORK)  
AUX: 90 dB (IHF A NETWORK)

Output Voltage  
Output Impedance  
Tone Control BASS  
TREBLE  
Turnover Frequency

1.5 volts, max 15 volts  
2.7 k-ohms  
±10 dB at 100 Hz (turnover at 400 Hz)  
±10 dB at 10 kHz (turnover at 2 kHz)  
BASS: 400 Hz, 125 Hz  
TREBLE: 2 kHz, 8 kHz  
10 Hz (6 dB/oct.)  
5 kHz (6 dB/oct.)  
-20 dB  
+5 dB at 100 Hz  
+5 dB at 10 kHz

Filters SUBSONIC  
HIGH

Muting  
Loudness  
(-40 dB)

Specifications are subject to change without notice.

# ONKYO®

## AUDIO COMPONENTS