

SOLID STATE  
STEREO  
AMPLIFIER

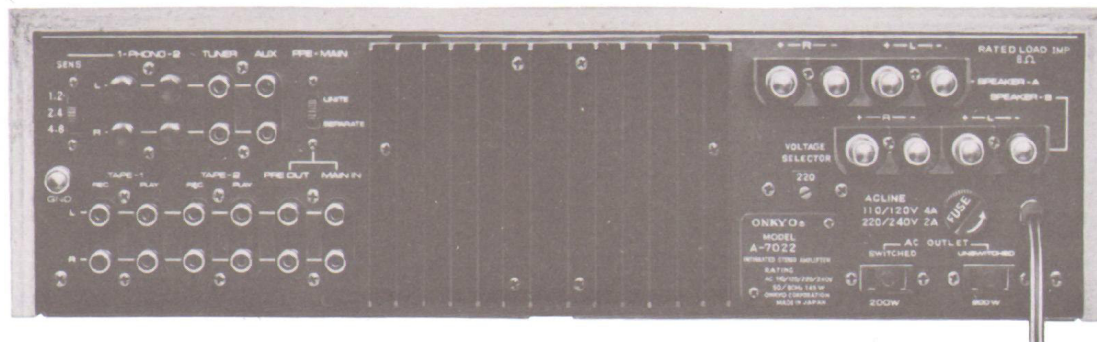
model **A-7022**



**The Final  
Word In  
An  
Amplifier —  
Power And  
Minimum  
Distortion**

Model A-7022 is the final word in an amplifier. It produces 200 watts of dynamic output power. The results of Onkyo's quest to lower and eliminate all kinds of distortion, especially transient distortion, are evident in every circuit of this superb model. In the power amplifier stage direct coupled, pure complementary SEPP circuitry is used with excellent results. This combination assures a very low distortion figure and an impressive power band width. The NF type tone control utilizes an operational amplifier for accurate and stable adjustment of low and high frequencies. An operational amplifier is also used in the equalizer stage to prevent slight deviation of RIAA equalization. This unit boasts of a big phono overload capacity of

300mV RMS at 1 kHz. In practice it prevents any abrupt and impulsive input signals — the kind very common in music — from affecting and lessening the tone quality. An additional feature is the boot strap circuit in the pre-amplifier stage which helps to keep the output clear even when the amplifier is turned to "fortissimo". There are inputs and outputs for two tape recorders — dubbing from one tape recorder to the other is very simple with this arrangement. Model A-7022 has a selector switch so the preamplifier and power amplifier can be used separately. In case there should be any trouble the ASO protection circuit protects the whole unit.



## Specifications

<b>Type</b>	All Silicon Transistor Integrated Stereo Pre-main Amplifier	<b>Filter HIGH</b>	8kHz (6dB/oct.)
<b>Circuit</b>	Direct Coupling and Differential Amplifier, Pure Complementary SEPP System, Transistor 44, Diode 30, Thermistor 2.	<b>Filter LOW</b>	30Hz (6dB/oct.)
		<b>Muting</b>	-20dB
		<b>Loudness</b>	+5dB at 70Hz, +5dB at 10kHz
		<b>Controls</b>	POWER SPEAKERS (OFF, A, B, A+B) SELECTOR (AUX, TUNER, PHONO 1, PHONO 2, MIC) TAPE MONITOR (PRINT 1-2, TAPE-1, SOURCE, TAPE-2, PRINT 2-1) MODE (REV, NORM, R+L, L, R R) VOLUME/BALANCE TREBLE TREBLE BASS FREQUENCY SHIFT SWITCH BASS (400Hz, 125Hz) TREBLE (2kHz, 8kHz) MUTING LOUDNESS FILTER HIGH, LOW PHONO GAIN (1.2/2.4/4.8mV) PRE MAIN SEPARABLE SWITCH (UNITE-SEPARATE)
<b>Main Amplifier Section</b>		<b>Input Terminals</b>	PHONO-1, PHONO-2, TUNER, AUX, MIC L/R, TAPE PLAY-1, TAPE PLAY-2, MAIN IN
<b>Power Output</b>		<b>Output Terminals</b>	SPEAKER-A, SPEAKER-B, TAPE REC-1, TAPE REC-2, PRE OUT
<b>Dynamic</b>	200W (IHF 4Ω) 150W (IHF 8Ω)	<b>Features</b>	AC OUTLET UNSWITCHED, SWITCHED x 2, PHONES 2 Phono Inputs 2 Tape Monitor and Printing 2dB Step Tone Controller 2 Choice of Turn Over Frequency ASO Type Protection Circuit Transient Killer Circuit Main Amplifier Incorporating OCL Circuit MIC Input Big Phono Overload
<b>Continuous</b>	72W+72W (4Ω both channel driven) 65W/65W (8Ω each channel driven) 52W+52W (8Ω both channel driven)	<b>Dimensions</b>	423W x 136H x 373D mm
<b>Total Harmonic Distortion</b>	0.1% at Rated Output 0.03% at 10W Output	<b>Weight</b>	16-5/8"W x 5-3/8" x 14-3/4"5" 10.5 kgs, 23 lbs.±
<b>Inter Modulation Distortion</b>	0.05% at Rated Output		
<b>Power Bandwidth</b>	10-100,000Hz (-3dB THD 0.2%)		
<b>Signal to Noise Ratio</b>	110dB (IHF A NETWORK)		
<b>Damping Factor</b>	80 at 8Ω		
<b>Rated Input and Impedance</b>	1V/100kΩ		
<b>Load Impedance</b>	4-16Ω		
<b>Pre Amplifier Section</b>			
<b>Input Sensitivity</b>	PHONO-1/-2: 1.2/2.4/4.8mV (50kΩ) TUNER, AUX, TAPE PLAY: 100mV (100kΩ)		
<b>Total Harmonic Distortion</b>	0.03% at Rated Output		
<b>Intermodulation Distortion</b>	0.05% at Rated Output		
<b>RIAA Deviation</b>	±0.5dB (30-15,000Hz)		
<b>Phono Overload</b>	300mV RMS at 1kHz, 1.4V RMS at 10kHz		
<b>Signal to Noise Ratio</b>	PHONO-1/-2: 75dB (IHF A NETWORK) TUNER/AUX: 90dB (IHF A NETWORK)		
<b>Output Voltage</b>	1V		
<b>Tone Control with 2dB/step</b>	Switch and Frequency Shift type		
<b>Frequency Shift</b>	BASS: 400/125Hz TREBLE: 2k/8kHz		
<b>Bass Control</b>	±5 Steps Boost and Cut		
<b>Treble Control</b>	±5 Steps Boost and Cut		

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