



# 304 Stereo Integrated Amplifier

Date of manufacture : Mar 93 - Oct 96

Please note that this document contains the text from the original product brochure, and some technical statements may now be out of date



The 304 essentially extends the 302 with power increased to 35 watts per channel into 8 ohms and generous headroom permitting untroubled peaks of 120 watts per channel.

NAD's unique Soft Clipping and Extended Dynamic Power circuits give the 304 the ability to deliver the maximum impact for dramatic performances without loss of smoothness or clarity. Two sets of heavy duty binding posts can be used for main plus extra speakers or for bi-wiring, adding to the 304's versatility. Its six inputs for audio and video components, provides an amplifier ideal for the most sophisticated audio and AV systems.

## PRE-AMP SECTION

### Phono input

Input impedance ( <i>R and C</i> )		47k $\Omega$ / 200pF
Input sensitivity, 1kHz	MM	2.5mV ref. 0.5V
Signal/Noise ratio ( <i>A-weighted with cartridge connected</i> )	MM	77dB ref. 5mV
THD ( <i>20Hz - 20kHz</i> )		<0.1%
RIAA response accuracy ( <i>20Hz - 20kHz</i> )		$\pm$ 0.5dB

### Line level inputs

Input impedance ( <i>R and C</i> )		20k $\Omega$ / 500pF
Input sensitivity ( <i>ref. 1W</i> )		165mV
Maximum input signal		>10V
Signal/Noise ratio ( <i>A-weighted ref 1W</i> )		91dB
Frequency response ( <i>20Hz - 20kHz</i> )		$\pm$ 0.5dB

### Line level outputs

Output impedance	Pre-amp	220 $\Omega$
	Tape	Source Z + 2k $\Omega$
	Phones	220 $\Omega$
Maximum output level	Pre-amp	>12V
	Tape	>10V
	Phones	>10V into 600 $\Omega$ >500mV into 8 $\Omega$

### Tone controls

Treble	$\pm$ 7dB at 10kHz
Bass	$\pm$ 10dB at 50Hz

## POWER AMP SECTION

Continuous output power into 8 $\Omega$ *		35W (17dBW)
Rated distortion ( <i>THD 20Hz - 20kHz</i> )		0.03%
Clipping power ( <i>maximum continuous power per channel</i> )		42W
IHF Dynamic headroom at 8 $\Omega$		+5.5dB
IHF dynamic power ( <i>maximum short term power per channel</i> )	8 $\Omega$	120W (21dBW)
	4 $\Omega$	160W (23dBW)
	2 $\Omega$	200W (23dBW)
Damping factor ( <i>ref. 8<math>\Omega</math>, 50Hz</i> )		>100
Input impedance		18k $\Omega$ / 560pF
Input sensitivity ( <i>for rated power into 8<math>\Omega</math></i> )		1V
Frequency response ( <i>20Hz - 20kHz</i> )		+0.3dB
Signal/noise ratio	ref. 1W	102dB
	ref. rated power	117dB
THD ( <i>20Hz - 20kHz</i> )		<0.03%
Remote		No
NAD Link		No

## PHYSICAL SPECIFICATIONS

Dimensions (W x H x D)	420 x 108 x 320mm
Net weight	6.4kg
Shipping weight	7.8kg

\* Minimum power per channel, 20Hz - 20kHz, both channels driven with no more than rated distortion.

Dimensions are of unit's cabinet without attached feet; add up to 18mm for total height.

Dimension depth excludes terminals, sockets, controls and buttons.

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