

SPEAKERS

A speaker's job is one of the most important in an audio system. To produce one that does the job well requires a lot of advanced technology and a thorough knowledge of how music should actually sound. Our years of experience in producing the world's finest pianos and other music instruments has given us that knowledge, plus the know-how to make the sturdiest, most resonance-free speaker boxes and driver frames around. Our space-age technology helped us to produce the world's first beryllium-dome tweeters—the lightest and most responsive available. Every Yamaha speaker receives the closest attention from both engineers and music specialists: your assurance of pure, natural sound for years of music enjoyment.



NS-1000/1000M

3-way speaker system with beryllium dome tweeter and midrange drivers • Left-right stereo configuration • Tangential edge dome suspension • Specially-developed cone woofer • Dual continuous tone controls • Unique acoustic equalizers • Professional monitor design (NS-1000M) • Deluxe ebony cabinet (NS-1000)

• Frequency response: 40–20,000 Hz • Maximum input capacity: 100 W • Sound pressure level: 90 dB/W/m
 • Woofer: 30-cm cone • Midrange: 8.8-cm beryllium dome • Tweeter: 3-cm beryllium dome • Dimensions (H x W x D): 675 x 375 x 326 mm (NS-1000M), 710 x 395 x 349 mm (NS-1000) • Weight: 31 kg (NS-1000M), 39 kg (NS-1000)

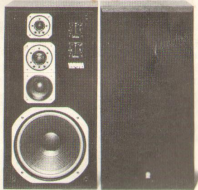
NS-1000

NS-1000M

NS-890

4-way speaker system • Beryllium dome tweeter and mid-high drivers • New cone mid-bass driver • Large cone woofer • Mid-high and tweeter output level controls • Acoustically sealed and damped enclosure

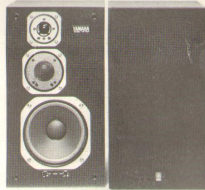
• Frequency response: 40–20,000 Hz • Maximum input capacity: 70 W • Sound pressure level: 92 dB/W/m
 • Woofer: 30-cm cone • Mid-bass: 12-cm cone • Mid-high: 5-cm beryllium dome • Tweeter: 3-cm beryllium dome • Dimensions (H x W x D): 745 x 375 x 317 mm • Weight: 31 kg



NS-655

3-way bookshelf speaker system with soft-dome tweeter for natural treble response • Continuously variable level control • Soft-dome midrange • Optimum crossover frequencies • Large power handling capacity

• Frequency response: 45–20,000 Hz • Maximum input capacity: 60 W • Sound pressure level: 89 dB/W/m
 • Woofer: 20-cm cone • Midrange: 6-cm soft dome • Tweeter: 3-cm soft dome • Dimensions (H x W x D): 520 x 290 x 256 mm • Weight: 14 kg



NS-344

3-way bookshelf speaker system • Acoustic suspension design • Tweeter and midrange level controls • Left/right symmetrical design • High-density particle board enclosure

• Frequency response: 50–38,000 Hz • Maximum input capacity: 70 W • Sound pressure level: 90 dB/W/m
 • Woofer: 25-cm cone • Midrange: 12.5-cm cone • Tweeter: 3-cm soft dome • Dimensions (H x W x D): 568 x 330 x 313 mm • Weight: 13.8 kg

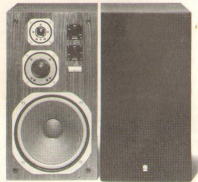


© bebm Hersteller
 Archib Michael Otto

NS-690II

3-way speaker system with soft dome tweeter and midrange drivers • Tangential edge dome suspension • Low resistance crossover network • Heavyweight cabinet construction • Continuously variable level controls for midrange and tweeter

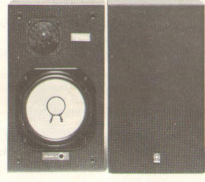
• Frequency response: 35–20,000 Hz • Maximum input capacity: 80 W • Sound pressure level: 90 dB/W/m
 • Woofer: 30-cm cone • Midrange: 7.5-cm soft dome • Tweeter: 3-cm soft dome • Dimensions (H x W x D): 630 x 350 x 312 mm • Weight: 27 kg



NS-635

2-way bookshelf speaker system with soft dome tweeter • Continuously variable level control • 20-cm woofer for powerful bass • Optimum crossover frequency • Large power handling capacity

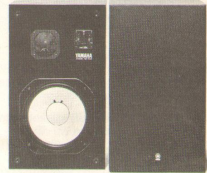
• Frequency response: 55–20,000 Hz • Maximum input capacity: 50 W • Sound pressure level: 90 dB/W/m
 • Woofer: 20-cm cone • Tweeter: 3.5-cm soft dome • Dimensions (H x W x D): 425 x 250 x 246 mm • Weight: 8.2 kg



NS-244

2-way bookshelf speaker system • Acoustic suspension design • Tweeter level control • Left/right symmetrical design • Removeable grille

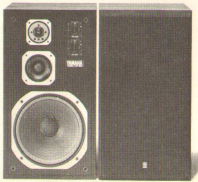
• Frequency response: 50–38,000 Hz • Maximum input capacity: 60 W • Sound pressure level: 90 dB/W/m
 • Woofer: 25-cm cone • Tweeter: 3-cm soft dome • Dimensions (H x W x D): 540 x 320 x 300 mm • Weight: 11.5 kg



NS-590

Vapor deposition beryllium dome tweeter • Heat resistant copper wire voice coil for midrange • Ultra-hard particleboard cabinet • Mid- and high-frequency level controls • 30-cm woofer, 12-cm midrange, 3-cm tweeter

• Maximum input power: 70 W • Sound pressure level: 91 dB/W/m • Frequency response: 40–20,000 Hz • Dimensions (H x W x D): 665 x 370 x 315.5 mm • Weight: 23.5 kg



NS-615

2-way bookshelf speaker system with soft dome tweeter • Cone woofer • 2-kHz crossover frequency with 12 dB/octave cutoff • Large power handling capacity

• Frequency response: 60–20,000 Hz • Maximum input capacity: 50 W • Sound pressure level: 90 dB/W/m
 • Woofer: 18-cm cone • Tweeter: 3.5-cm soft dome • Dimensions (H x W x D): 382 x 215 x 199 mm • Weight: 6 kg



NS-10M

2-way mini-size speaker system • White paper cone woofer • Extremely high efficiency • Left/right symmetrical design • Sealed enclosure • Precision-formed soft dome tweeter

• Frequency response: 60–20,000 Hz • Maximum input capacity: 50 W • Sound pressure level: 90 dB/W/m
 • Woofer: 18-cm white cone • Tweeter: 3.5-cm soft dome • Dimensions (H x W x D): 382 x 215 x 199 mm • Weight: 6 kg



YAMAHA Hi-Fi

A full selection of advanced components
 for true hi-fi listening enjoyment.

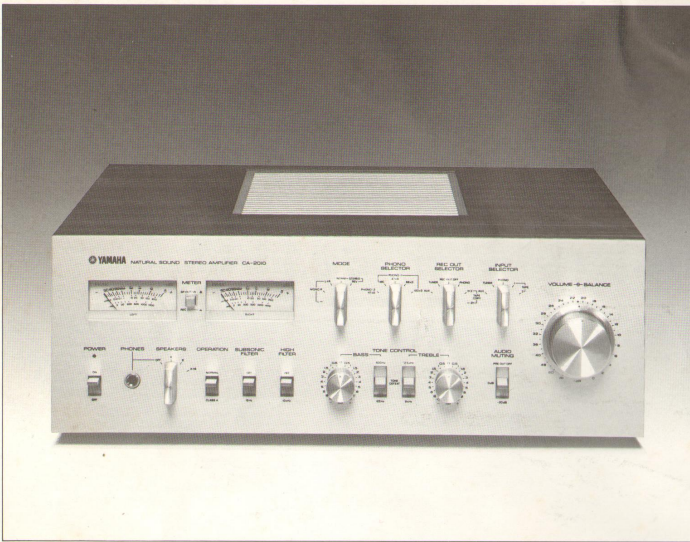
1979

© bebm Hersteller
 Archib Michael Otto



INTEGRATED AMPLIFIERS

TUNERS



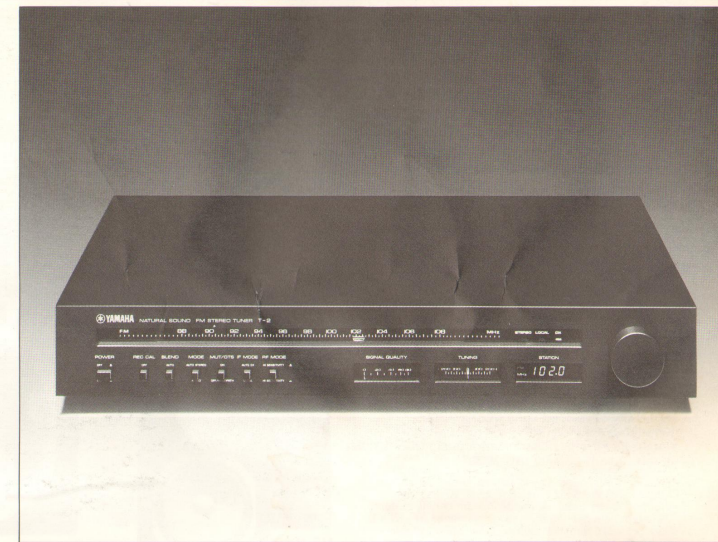
Like our receivers, all our amplifiers feature ultra-low distortion—right down the line. Precise matching of components means outstanding tonal quality and absolute fidelity to every musical nuance. In addition, you get many sophisticated features like a built-in MC head amplifier, switchable class A/class B operation, disk switch, DC power amp configuration, switchable tone control turnover frequencies, continuous loudness control, and lots more. With full emphasis on sound quality, convenience and features, these amplifiers will help bring your music to life.

CA-200

- Built-in head amp
- Independent recording and listening selection
- Switchable class A operation
- Pre out/main in coupler switch
- Wide-range peak delay meters
- DC-calibrated tone and volume controls.

- Min. RMS output power (class B/class A): 120 W/30 W per ch. (8 ohms, 20—20,000 Hz THD under 0.03%)
- Phono S/N ratio: 96 dB
- Frequency response (tuner to sp out): 5 Hz—50 kHz, +0 dB, -1 dB
- Dimensions (W x H x D): 461 x 170 x 360 mm
- Weight: 21 kg

Here's where Yamaha technology really shines. Our T-1 and T-2 are perfect examples of the kind of detailed know-how that goes into making a real winner. All Yamaha tuners receive the same detailed attention. Our unique direct assessment of differential gain technique assures perfect alignment in the IF and detector stages, meaning long-lasting calibration accuracy and stability. Comparison with the original sound is another technique we use to achieve the most true-to-life, natural reproduction attainable. Yamaha tuners bring you closer to the music.



T-2

- FM stereo tuner with unique RF mode switching
- 7-gang tuning capacitor
- Automatic DX/local switching
- Optimum tuning system
- Pilot signal quality meter
- Digital readout

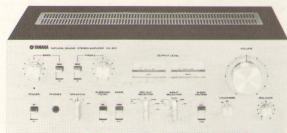
- Alt. ch. selectivity: 100 dB (DX)
- Usable sensitivity (mono): 1.9 μ V
- Stereo separation: 55 dB
- S/N ratio at 65 dBf (stereo/mono): 85/88 dB
- Dimensions (W x H x D): 435 x 170 x 349 mm
- Weight: 7 kg



CA-1010

- Built-in head amp
- Independent recording and listening selection
- Switchable class A operation
- Pre out/main in coupler switch
- Wide range peak delay meters
- Phono impedance selector.

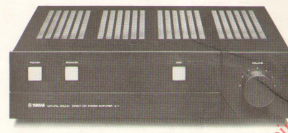
- Min. RMS output power (class B/class A): 90 W/18 W per ch. (8 ohms, 20—20,000 Hz, THD under 0.03%)
- Phono S/N ratio: 96 dB
- Frequency response (tuner to sp out): 5 Hz—50 kHz, +0 dB, -1 dB
- Dimensions (W x H x D): 461 x 170 x 360 mm
- Weight: 20 kg



CA-610

- Independent recording and listening selection
- 0.01 W to 100 W meter range
- Loudness control
- Subsonic filter
- Audio muting
- 2 speaker selection with front-panel switching

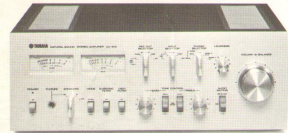
- Min. RMS output power: 40 W/ch. (8 ohms, 20—20,000 Hz, THD under 0.05%)
- Phono S/N ratio: 75 dB
- Frequency response (aux to sp out): 20—20,000 Hz +0.2 dB, -0.3 dB
- Dimensions (W x H x D): 435 x 160 x 298 mm
- Weight: 8.9 kg



A-1

- Disc switch
- DC configuration
- Built-in head amplifier
- Bass and treble tone controls
- Speaker overload protection

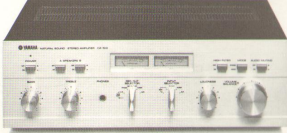
- Min. RMS power: 70 W/ch. (8 ohms, 20—20,000 Hz, THD under 0.02%)
- Phono S/N ratio: 97 dB
- Frequency response (tape to sp out): 20—20,000 Hz, +0, -0.2 dB
- Dimensions (W x H x D): 435 x 117 x 381 mm
- Weight: 15.8 kg



CA-810

- Built-in head amp
- Independent recording and listening selection
- Variable loudness control
- Pre out/main in coupler switch
- Wide range peak delay meters
- Phono impedance selector.

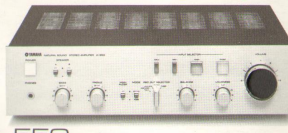
- Min. RMS output power: 65 W/ch. (8 ohms, 20—20,000 Hz, THD under 0.05%)
- Phono S/N ratio: 95 dB
- Frequency response (tuner to sp out): 10 Hz—100 kHz, +0 dB, -2.5 dB
- Dimensions (W x H x D): 435 x 160 x 337 mm
- Weight: 12 kg



CA-510

- Advanced current-mirror circuitry in power amp
- Independent recording and listening selection
- Variable loudness control
- High filter
- Audio muting
- Speakers A/B front-panel selection

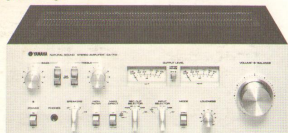
- Min. RMS output power: 35 W/ch. (8 ohms, 20—20,000 Hz, THD under 0.05%)
- Phono S/N ratio: 85 dB
- Frequency response (tuner, tape to sp out): 20—20,000 Hz \pm 0.5 dB
- Dimensions (W x H x D): 435 x 139 x 333 mm
- Weight: 7.8 kg



A-550

- A-1 type styling
- DC power amp configuration
- Rec Out selector
- Tape monitor/copy function
- Continuously variable loudness control
- Switchable high filter
- Independent A and B speaker selectors
- Built-in subsonic filter
- Black model also available

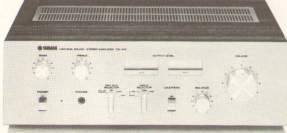
- Min. RMS output power: 45 W/ch. (8 ohms, 20—20,000 Hz, THD under 0.02%)
- Frequency response (tuner to sp out): 4—70,000 Hz +0, -2 dB
- S/N ratio (Phono): 86 dB
- Dimensions (W x H x D): 435 x 112 x 338 mm
- Weight: 7.8 kg



CA-710

- Independent recording and listening selection
- Switchable range (50 W/2 W) peak level meters
- Variable loudness control
- Main direct switch
- Bass and treble controls with dual turnover frequencies
- High filter.

- Min. RMS output power: 45 W/ch. (8 ohms 20—20,000 Hz, THD under 0.05%)
- Phono S/N ratio: 85 dB
- Frequency response (tuner to sp out): 10 Hz—100 kHz, +0 dB, -2 dB
- Dimensions (W x H x D): 435 x 160 x 335 mm
- Weight: 9 kg



CA-410

- Same low 0.05% THD
- Independent recording and listening selection
- Loudness switch
- Bass and treble controls
- Speaker overload protection
- Switchable high filter
- Continuously variable loudness control
- Built-in subsonic filter
- Black model also available

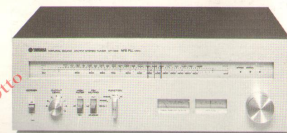
- Min. RMS output power: 25 W/ch. (8 ohms, 20—20,000 Hz, THD under 0.05%)
- Phono S/N ratio: 77 dB
- Frequency response (aux to sp out): 20—20,000 Hz \pm 0.5 dB
- Dimensions (W x H x D): 435 x 141 x 350 mm
- Weight: 8.1 kg



A-450

- New, slim design
- Power protection/muting circuitry
- Integrated EQ and tone control amplifiers
- Tape 1, 2 selectors with copy function
- Switchable high filter
- Continuously variable loudness control
- Built-in subsonic filter
- Black model also available

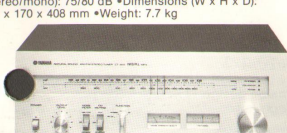
- Min. RMS output power: 35 W/ch. (8 ohms, 20—20,000 Hz, THD under 0.02%)
- Frequency response (tuner to sp out): 4—70,000 Hz +0, -2 dB
- S/N ratio (Phono): 80 dB
- Dimensions (W x H x D): 435 x 112 x 338 mm
- Weight: 7.8 kg



CT-1010

- 5-gang tuning capacitor
- Optimum tuning system
- Pilot signal cancellation
- Signal quality meter
- Tape deck level calibration signal
- 4 kHz/8 kHz filter switch, 3 μ V/30 μ V FM muting

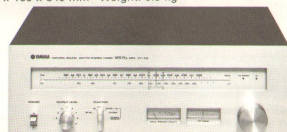
- Alt. ch. selectivity: 85 dB
- Usable sensitivity (mono): 1.9 μ V
- Stereo separation: 52 dB
- S/N ratio at 65 dBf (stereo/mono): 75/80 dB
- Dimensions (W x H x D): 461 x 170 x 408 mm
- Weight: 7.7 kg



CT-810

- Optimum tuning system
- Pilot signal cancellation
- Signal quality meter
- 3 μ V/30 μ V FM muting
- High filter
- High blend
- Tape deck level calibration signal

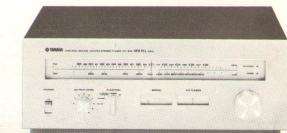
- Alt. ch. selectivity: 80 dB
- Usable sensitivity (mono): 1.8 μ V
- Stereo separation: 50 dB
- S/N ratio at 65 dBf (stereo/mono): 75/80 dB
- Dimensions (W x H x D): 435 x 160 x 349 mm
- Weight: 5.9 kg



CT-710

- Optimum tuning system
- Pilot signal cancellation
- Signal quality meter
- FM auto-DX switching
- Tape deck level calibration signal
- FM blend

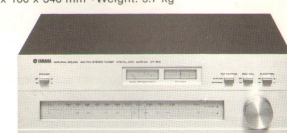
- Alt. ch. selectivity: 85 dB
- Usable sensitivity (mono): 1.6 μ V
- Stereo separation: 45 dB
- S/N ratio at 65 dBf (stereo/mono): 75/80 dB
- Dimensions (W x H x D): 435 x 160 x 334 mm
- Weight: 6.3 kg



CT-610

- Signal quality meter
- Recording calibration signal
- FM blend
- Output level control
- 75 and 300 ohm antenna terminals

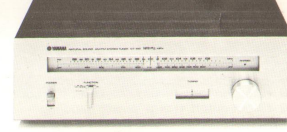
- Alt. ch. selectivity: 75 dB
- Usable sensitivity (mono): 1.8 μ V
- Stereo separation: 40 dB
- S/N ratio at 65 dBf (stereo/mono): 71/76 dB
- Dimensions (W x H x D): 435 x 160 x 346 mm
- Weight: 5.7 kg



CT-510

- Automatic DX/local switching
- FM mono mode
- Recording calibration signal
- Signal strength/quality meter
- Combination antenna

- Alt. ch. selectivity: 82 dB
- S/N ratio at 65 dBf (stereo/mono): 75/80 dB
- Usable sensitivity (mono): 1.9 μ V
- Stereo separation: 40 dB
- Dimensions (W x H x D): 435 x 139 x 334.5 mm
- Weight: 4.9 kg



CT-410

- Automatic DX/local switching
- FM mono mode
- Recording calibration signal
- Dual-purpose AM/FM tuning meter

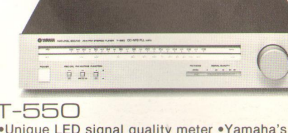
- Alt. ch. selectivity: 70 dB
- Usable sensitivity (mono): 1.8 μ V
- Stereo separation: 40 dB
- S/N ratio at 65 dBf (stereo/mono): 71/77 dB
- Dimensions (W x H x D): 435 x 141 x 346 mm
- Weight: 5.7 kg



T-1

- Automatic DX/local switching
- Optimum tuning system
- Pilot signal cancellation
- Recording calibration
- Signal quality meter
- FM blend

- Alt. ch. selectivity: 92 dB (DX)
- Usable sensitivity (mono): 1.7 μ V
- Stereo separation: 55 dB
- S/N ratio at 65 dBf (stereo/mono): 84/85 dB
- Dimensions (W x H x D): 435 x 97 x 376 mm
- Weight: 5.7 kg

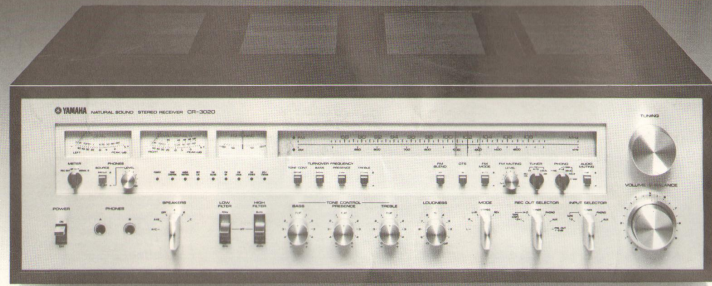


T-550

- Unique LED signal quality meter
- Yamaha's original DC-NFB-PLL multiplex decoder system
- Mono/Muting switch
- Built-in recording calibration oscillator
- Revolutionary LED center-tune meter incorporated in dial indicator
- New Uni-Resonance ceramic filters
- Black model also available

- 50 dB quieting sensitivity: 14.8 dBf/3 μ V (mono), 38 dBf/40 μ V (stereo)
- Alt. ch. selectivity: 65 dB
- S/N ratio (65 dBf): 84 dB (mono), 80 dB (stereo)
- Distortion (1 kHz, Mono): 0.05%
- Dimensions (W x H x D): 435 x 92 x 341 mm
- Weight: 4.4 kg

RECEIVERS



The Yamaha philosophy: each and every music fan is entitled to the same natural, distortion-free sound, whatever the price of his unit. That's why Yamaha receivers all feature amazingly low total harmonic distortion. Power and control functions vary, but the thrilling musical clarity that is Yamaha's trademark is always right at your fingertips. That doesn't mean, however, that control and convenience features are lacking. On the contrary, Yamaha receivers are packed with them, including some not found on any other receivers, or even on expensive amps and tuners. A dealer demonstration will quickly convince you that each of these receivers is tops in its class for value and performance.

CR-3020

- Automatic DX/local switching •Built-in head amp
- Independent recording and listening selection
- Variable loudness control •Optimum tuning system
- Signal quality meter

•Min. RMS power: 160 W/ch. (8 ohms, 20—20,000 Hz, THD under 0.02%) •S/N ratio (Phono MM): 95 dB •FM 50 dB quieting sensitivity: 15.3 dBf/3.2 μ V (mono), 37.3 dBf/40 μ V (stereo) •Alt. ch. selectivity: 85 dB •Dimensions (WxHxD): 632x191x494.5 mm •Weight: 37 kg



DOLBY SYSTEM Dolby is a trademark of Dolby Laboratories.

There was a time when cassette decks could not be found in high quality sound installations due to their many inherent problems—wow & flutter, limited frequency response, etc. But Yamaha technology has changed all that. Our superb new line of cassette decks fit right in with even the most sophisticated audio systems, providing sound quality more commonly associated with open reel tape decks or discs. Yamaha Cassette Decks: the finest in styling, convenience and sound.

TC-1000

- PLL servo motor •Pure sendust alloy head
- Peak level meters •Dolby noise reduction system
- Ultra-precise tape and bias matching •Mic attenuation switch
- Memory function •Output and pitch controls
- Mic and line level controls
- Black model (TC-1000B) available

•Signal-to-noise ratio 67 dB (Dolby) •Wow and flutter: 0.05% WRMS •Frequency response: 30—16,000 Hz (LH tape), 30—18,000 Hz (CR, CR2, CR3) •Dimensions (W x H x D): 460 x 170 x 327 mm •Weight: 11.9 kg



TC-520

- Electronic servo motor •Super-hard permalloy head
- Wide-scale meters •Peak level LED indicators
- Dolby noise reduction system
- Variable bias adjustment •3-position tape selector
- Rec mute switch •Timer recording mechanism
- Mic and line level controls
- Black model (TC-520B) available

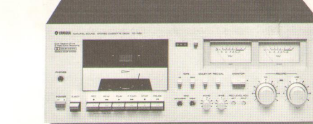
•Signal-to-noise ratio 57 dB (LH tape) •Wow and flutter: 0.07% WRMS •Frequency response: 30—13,000 Hz (LH tape), 30—15,000 Hz (CR, CR2) •Dimensions (W x H x D): 435 x 160 x 327 mm •Weight: 7.5 kg



TC-920B

- Pure Plasma Process Sendust REC/PLAY head
- 3-position bias/EQ and bias fine adjust
- MPX/subsonic filters •IC logic control
- Timer recording •Bar graph peak level meter
- Two-motor separate drive •Frequency generator servosystem
- Dolby noise reduction •Silver model (TC-920) available

•Wow & Flutter: WRMS 0.03% •Frequency response: (CR2, CR3) 30—18,000 Hz \pm 3 dB •S/N ratio (Dolby off, CR2, CR3) 33, 33 Hz •60 dB •Dimensions (W x H x D): 435 x 140 x 305 mm •Weight: 9 kg



TC-720

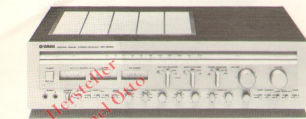
- Dual capstan drive •Three-head monitoring design
- Double Dolby noise reduction •Echo facility
- Echo level control •Frequency generator servomotor
- Bias and equalization adjustments
- Dual VU meters •Black model (TC-720B) available

•Wow & Flutter: WRMS 0.06% •Frequency response: (CR2, CR3) 40—17,000 Hz \pm 3 dB •S/N ratio (CR2, CR3) 33 Hz •57 dB •Dimensions (W x H x D): 435 x 150 x 288 mm •Weight: 6.9 kg

TC-320B/320a

- High-torque DC motor •Super-hard permalloy head
- 20 to \pm 5 dB level meters •Dolby noise reduction system
- Bias adjustment •All-mode automatic shutoff
- Silver model (TC-320) available for TC-320B and black (TC-320aB) for TC-320a

•Signal-to-noise ratio: 57 dB (LH tape) •Wow and flutter: 0.07% WRMS •Frequency Response: 40—14,000 Hz (LH tape), 40—15,000 Hz (CR, CR2) \pm 3 dB •Dimensions (W x H x D): 435 x 140 x 286 mm •Weight: 5.7 kg



CR-2040

- Bass, presence and treble controls with continuously variable turnover/center frequencies
- Automatic DX/local mode selection •DC amplifier design
- Built-in MC cartridge head amplifier •Optimum tuning system

•Min. RMS output power: 120 W/ch. (8 ohms, 20—20,000 Hz, THD under 0.02%) •S/N ratio (Phono MM): 95 dB •FM 50 dB quieting sensitivity: 15.3 dBf/3.2 μ V (mono), 36.1 dBf/35 μ V (stereo) •Alt. ch. selectivity: 82 dB (DX), 48 dB (Local) •Dimensions (W x H x D): 560 x 151 x 407 mm •Weight: 18.9 kg



CR-640

- DC amplifier design •Automatic DX/Local mode selection
- Independent recording and listening selection
- High and low filters •Variable loudness control
- FM muting •Signal quality meter •Black model also available

•Min. RMS output power: 40 W/ch. (8 ohms, 20—20,000 Hz, THD under 0.02%) •S/N ratio (Phono): 94 dB •FM 50 dB quieting sensitivity: 15.3 dBf/3.2 μ V (mono), 37.3 dBf/40 μ V (stereo) •Alt. ch. selectivity: 82 dB (DX), 48 dB (Local) •Dimensions (WxHxD): 510x167x385.5 mm •Weight: 11.9 kg



CR-2020

- Built-in head amp •Independent recording and listening selection
- Variable loudness control
- Optimum tuning system •Signal quality meter

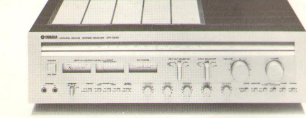
•Min. RMS power: 100 W/ch. (8 ohms, 20—20,000 Hz THD under 0.05%) •Phono S/N ratio: 95 dB •FM usable sensitivity (mono): 1.8 μ V •FM alt. ch. selectivity: 80 dB •Dimensions (WxHxD): 540x167x415 mm •Weight: 19.3 kg



CR-620

- Independent recording and listening selection
- Variable loudness control •Signal quality meter
- Low and high filters •FM muting

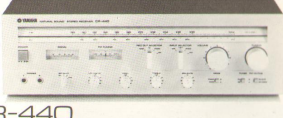
•Min. RMS power: 35 W/ch. (8 ohms, 20—20,000 Hz, THD under 0.05%) •Phono S/N ratio: 92 dB •FM usable sensitivity (mono): 1.8 μ V •FM alt. ch. selectivity: 70 dB •Dimensions (WxHxD): 508x167x395 mm •Weight: 12.5 kg



CR-1040

- DC amplifier design •Peak-delay power meters
- Built-in MC cartridge head amplifier •Automatic DX/Local mode selection
- Pilot signal cancellation •Optimum tuning system
- Signal quality meter

•Min. RMS output power: 80 W/ch. (8 ohms, 20—20,000 Hz, THD under 0.02%) •S/N ratio (Phono MM): 95 dB •FM 50 dB quieting sensitivity: 15.3 dBf/3.2 μ V (mono), 36.1 dBf/35 μ V (stereo) •Alt. ch. selectivity: 82 dB (DX), 48 dB (Local) •Dimensions (WxHxD): 520x151x385.5 mm •Weight: 16.5 kg



CR-440

- Independent recording and listening selection
- Variable loudness control •Signal quality meter
- FM muting •Bass/treble controls
- Built-in subsonic filter •Black model also available

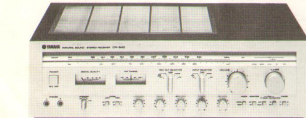
•Min. RMS power: 30 W/ch. (8 ohms, 20—20,000 Hz, THD under 0.02%) •Phono S/N ratio: 94 dB •FM usable sensitivity (mono): 1.8 μ V •FM S/N ratio: 80 dB •Dimensions (W x H x D): 453 x 152 x 327 mm •Weight: 9 kg



CR-1020

- Independent recording and listening selection
- Optimum tuning system •Variable loudness control
- Signal quality meter •6-position speaker selection

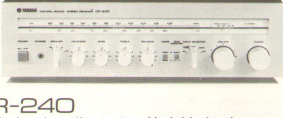
•Min. RMS power: 70 W/ch. (8 ohms, 20—20,000 Hz, THD under 0.05%) •Phono S/N ratio: 92 dB •FM usable sensitivity (mono): 1.8 μ V •FM alt. ch. selectivity: 80 dB •Dimensions (WxHxD): 540x167x415 mm •Weight: 18.8 kg



CR-840

- DC amplifier design •Automatic DX/Local mode selection
- Optimum tuning system •Signal quality meter
- Variable loudness control •Bass/presence/treble controls
- Independent recording and listening selection

•Min. RMS output power: 60 W/ch. (8 ohms, 20—20,000 Hz, THD under 0.02%) •S/N ratio (Phono): 94 dB •FM 50 dB quieting sensitivity: 15.3 dBf/3.2 μ V (mono), 37.3 dBf/40 μ V (stereo) •Alt. ch. selectivity: 82 dB (DX), 48 dB (Local) •Dimensions (WxHxD): 490x151x385.5 mm •Weight: 12.9 kg



CR-240

- LED signal quality meter •Variable loudness control
- Tape source/monitor selection
- Bass/treble controls •FM stereo indicator
- Built-in subsonic filter •Black model also available

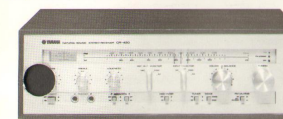
•Min. RMS power: 20 W/ch. (8 ohms, 20—20,000 Hz, THD under 0.02%) •Phono S/N ratio: 94 dB •FM usable sensitivity (mono): 1.8 μ V •FM S/N ratio: 80 dB •Dimensions (W x H x D): 435 x 134 x 297 mm •Weight: 7.3 kg



CR-820

- Independent recording and listening selection
- Optimum tuning system •Variable loudness control
- Signal quality meter •Presence control

•Min. RMS power: 50 W/ch. (8 ohms, 20—20,000 Hz, THD under 0.05%) •Phono S/N ratio: 92 dB •FM usable sensitivity (mono): 1.8 μ V •FM alt. ch. selectivity: 75 dB •Dimensions (WxHxD): 435x144x326.5 mm •Weight: 7.5 kg



CR-420

- Independent recording and listening selection
- Variable loudness control •High filter
- FM muting •Dual speaker selection

•Min. RMS power: 22 W/ch. (8 ohms, 20—20,000 Hz THD under 0.05%) •Phono S/N ratio: 91 dB •FM usable sensitivity (mono): 1.8 μ V •FM alt. ch. selectivity: 65 dB •Dimensions (W x H x D): 451 x 161 x 324 mm •Weight: 9 kg

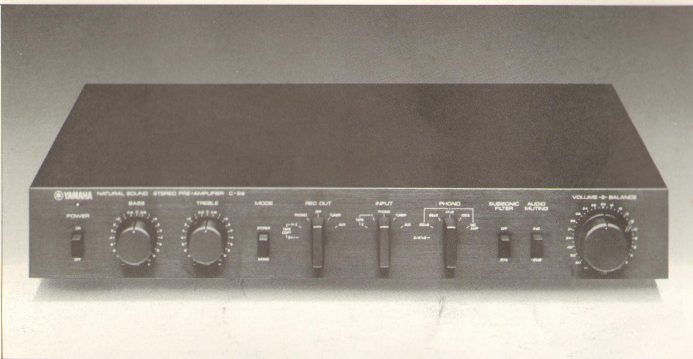


CR-220

- Variable loudness control •Bass and treble controls
- Front-panel A/B speaker system switching
- Signal strength/center tuning meter

•Min. RMS power: 15 W/ch. (8 ohms, 20—20,000 Hz, THD under 0.05%) •Phono S/N ratio: 90 dB •FM usable sensitivity (mono): 2.0 μ V •FM alt. ch. selectivity: 60 dB •Dimensions (WxHxD): 435x144x326.5 mm •Weight: 7.5 kg

SEPARATE AMPLIFIERS



HA-1

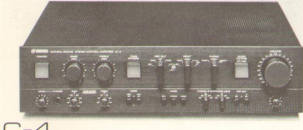
•High-performance MC cartridge amplifier with super-low-noise IC •MC cartridge output level selector •MM cartridge bypass switch •Relay-equipped muting circuit



C-2a

•Control amplifier with double the gain of conventional pre-amps •Yamaha-exclusive current noise reduction circuit •Built-in MC cartridge head amplifier •Selectable cartridge load (resistance/capacitance) •All DC construction

•Frequency response (AUX): 10—10,000 Hz, ± 0.2 dB •S/N ratio (AUX, 150 mV, shorted): 107 dB •THD (20—20,000 Hz, 5 V output, MM In): 0.003% •Dimensions (W x H x D): 435 x 72 x 320 mm •Weight: 7.9 kg



C-4

•Control amplifier with built-in MC cartridge head amplifier •Yamaha-exclusive current noise reduction circuit •Selectable cartridge load (resistance/capacitance) •Versatile bass/treble controls with continuously variable turnover frequencies •Headphone jack with level control

•Frequency response (AUX): 5—100,000 Hz ± 0.5 dB •S/N ratio (MM In, 10 mV input, shorted): 97 dB •THD (20—20,000 Hz, 2 V output, MM In): 0.0035% •Dimensions (W x H x D): 435 x 146 x 376 mm •Weight: 8.7 kg

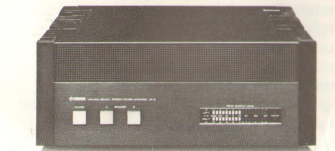


C-6

•Control amplifier with independent continuous control of low/high center frequency, bandwidth and level •MC cartridge head amp •DC phone equalizer amp •Headphone amp •Tape mode selector •Independent recording and listening selection •High and low filters •Audio muting

•THD phono MM to pre-out: 0.005% (20—20,000 Hz, -30 dB vol.) •Phono MM S/N ratio: 97 dB •Dimensions (W x H x D): 435 x 114.3 x 338.5 mm •Weight: 6.3 kg

•THD: 0.005% (5 mV input, 20—20,000 Hz) •Frequency response: 10 Hz—500 kHz ± 1 dB •Input-equivalent noise (low, high positions): -157 dB/V, -144 dB/V •Dimensions (W x H x D): 150 x 67.5 x 352 mm •Weight: 3.2 kg



M-2

•Power amplifier with DC amplifier design •Linear-transfer bias circuit •High-ft power transistors •Extra-large toroidal power transformer •Peak level meter •Overload indicator Left/right input level controls •Illuminated speaker selectors

•Min. RMS output power: 240 W/ch, (8 ohms, 20—20,000 Hz, THD under 0.005%) •Frequency response (DC mode): 0—100,000 Hz at 10 Hz & 1 kHz: 0 dB, at 100 kHz: -0.7 ± 0.5 dB •S/N ratio (IHF-A network): 123 dB •Dimensions (W x H x D): 435 x 182.7 x 361.5 mm •Weight: 23 kg



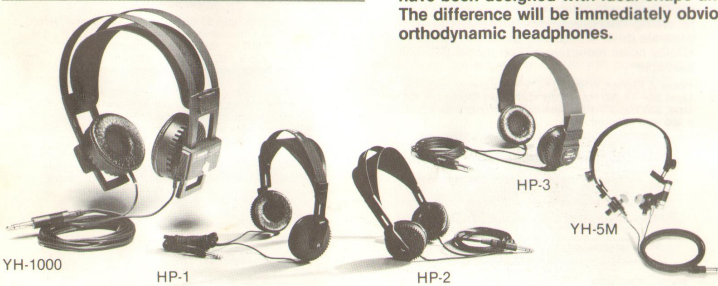
M-4

•Power amplifier with DC amplification for improved transient response and distortion •Newly-developed high-ft power transistors •Convenient peak/overload indicator system •DC detecting speaker protection circuit •DC input switch •Illuminated speaker selectors

•Min. RMS output power: 120 W/ch, (8 ohms, 20—20,000 Hz, THD under 0.005%) •Frequency response (mode AC): 10—100,000 Hz ± 0 , -1.5 dB •S/N ratio (IHF-A network): 118 dB •Dimensions (W x H x D): 435 x 145.5 x 374.5 mm •Weight: 18.5 kg

HEADPHONES

Yamaha headphones feature a new "orthodynamic" system which provides smooth, even response over the entire audible frequency range. In addition, they have been designed with ideal shape and weight for hours of fatigue-free listening. The difference will be immediately obvious when you try your first pair of Yamaha orthodynamic headphones.



YH-1000

HP-1

HP-2

HP-3

YH-5M

YH-1000/HP-1/2/3

•Orthodynamic stereo headphones which provide low noise, low distortion listening pleasure with an extra feeling of presence •Soft leather strap •Ultra-low pad pressure •No-fatigue semi-open earcup structure •Fully adjustable

•Frequency response: 20—20,000 Hz •THD at 90 dB SPL: less than -50 dB (0.3%) •Weight without cord: YH-1000—500 g; HP-1—250 g; HP-2—190 g; HP-3—170 g

YH-5M

•High-performance (THD at 90 dB SPL: less than -70 dB) •Ultra-light (120 g) •Unique open-design orthodynamic stereo headphones

Specifications subject to change without notice. *Dolby is a trademark of Dolby Laboratories.

For details please contact:

SINCE 1887  **YAMAHA**
NIPPON GAKKI CO., LTD., HAMAMATSU, JAPAN

TURNTABLES



The requirements for a high-fidelity turntable are extremely stringent: it must not add any resonance to the reproduced sound, it must be totally resistant to external vibrations, the rotation of the platter must be perfectly smooth and maintain precisely constant speed, and the entire unit must be extremely reliable for years of trouble-free use. At Yamaha, our extensive knowledge of woods, metals and synthetic materials is the key factor in the success of our turntables. Their convenient controls make operation a pleasure, and their superior performance will bring your records to life.

YP-D10

•Direct-drive stereo turntable •High-torque, Hall-effect DC servomotor •Double FG/quartz PLL servosystems •Opto-electrical silent ending system • $\pm 3\%$ speed adjustment •S-shaped tonearm with two support systems and arm height adjustment •Stroboscopic speed indicator

•Signal-to-noise ratio: 62 dB •Wow & flutter: 0.03% •Dimensions (W x H x D): 470 x 163 x 376 mm •Weight: 16 kg



YP-D8

•Direct-drive stereo turntable with frequency generator servosystem •12-pole, 24-slot high-torque DC motor •Opto-electrical sensing auto stop mechanism •Stroboscopic speed indication • $\pm 3\%$ speed controls •Oil-damped cueing

•Signal-to-noise ratio: 60 dB •Wow and flutter: 0.03% •Dimensions (W x H x D): 470 x 163 x 376 mm •Weight: 15 kg



YP-D4

•Automatic operation •Coreless/slotless DC Hall motor •High-sensitivity tonearm •Heavy aluminum die-cast turntable with rubber mat •Solid particleboard base with acoustic insulating system

•Wow and flutter: 0.055% •S/N ratio: 77 dB •Dimensions (W x H x D): 435 x 140 x 360 mm •Weight: 8 kg



YP-B4

•Belt-drive stereo turntable •Fully automatic performance •Auto repeat function •4-pole synchronous motor •S-type static balance tonearm •Dial-setting anti-skate device •Cueing lever •CG-6600 cartridge

•Signal-to-noise ratio: 55 dB •Wow and flutter: 0.07% •Dimensions (W x H x D): 435 x 150 x 347 mm •Weight: 7 kg



YP-D71

•Automatic operation •Twelve-pole, 24-slot quartz servo DC motor •Auto-stop mechanism with opto-electronic sensor •High-sensitivity tonearm •Heavy aluminum die-cast turntable with rubber mat •Solid particleboard base with acoustic insulating system

•Wow and flutter: 0.025% •S/N ratio: 77 dB •Dimensions (W x H x D): 470 x 155 x 373 mm •Weight: 11 kg



YP-D3

•Direct-drive stereo turntable with high-torque 12-pole/24-slot brushless DC servo motor •Stroboscopic speed indication •Independent \pm speed controls for 33 and 45 rpm •Static-balance S-type tonearm •CG-6600 cartridge

•Signal-to-noise ratio: 60 dB •Wow and flutter: 0.04% •Dimensions (W x H x D): 435 x 122 x 376 mm •Weight: 8.5 kg



YP-B2

•Belt-drive stereo turntable with 4-pole synchronous motor •Automatic return and cut •Sensitive S-shaped tubular tonearm •12-inch aluminum die-cast platter •Sturdy anti-resonant wooden cabinet •Black model available

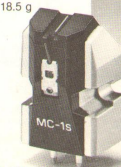
•Signal-to-noise ratio: 52 dB •Wow and flutter: 0.08% •Dimensions (W x H x D): 435 x 140 x 360 mm •Weight: 6 kg

CARTRIDGES

MC-1X/MC-1S

•Tapered, tubular, pure beryllium cantilever •Twin laminated coreless IC coils •"Root Wing" coil suspension system •Yokeless dual differential magnetic circuit

•Frequency response: 10—20,000 Hz •Channel separation: 28 dB or more (1 kHz) •Impedance: 30 ohms $\pm 20\%$ •Output voltage: 0.2 mV (5 cm/sec, 1 kHz) •Weight: 18.5 g ± 0.1 g (MC-1X—integrated type), 7.8 g ± 0.1 g (MC-1S—universal type)



MC-1S



MC-1X