

TOA BA-800 SERIES

DOUBLE CASSETTE PLAYER

BA-800/806/823



BA-800 Stereo Double Cassette Player



BA-806 60W Monaural Double Cassette Player Amplifier
BA-823 30W+30W Stereo Double Cassette Player Amplifier



DESCRIPTION

TOA's BA-800 Series of stereo dual cassette players/player amplifiers is ideally suited for locations where enjoyable background or foreground music is desired, including shopping centers, offices, supermarkets and restaurants. The series consists of three models: the BA-823 with a 2 x 30W, 4 Ω stereo output; the BA-806, featuring 60W of monaural output at 4 Ω , or 10 Ω ; 25V/83 Ω ; 70V outputs; and the BA-800 dual cassette player. Each model is ruggedly constructed to provide dependable performance and extended frequency response, for full-range, natural-sounding playback.

The BA-800 Series delivers endless playback of up to two pre-recorded cassettes. A track sequence switch adds variety to double cassette playback. A no-voltage pulse contact is provided for timer control operation. When used with two C-90 tapes, 180 minutes of uninterrupted BGM/FGM is possible. In addition, four BA-800 units may be linked to provide continuous eight-cassette playing time of 720 minutes.

All models are equipped with two CU-800 auto-reverse cassette play modules, which feature Dolby B-type noise reduction and deliver up to 2,000 hours of play time. Each unit houses a switchable AGC (Automatic Gain Control) to

maintain playback output at a constant level. A blank skip function eliminates annoying periods of silence by automatically skipping forward at top speed if an unrecorded section more than ten seconds long is encountered during playback. Optional kits allow the BA-800 Series to be mounted on a standard EIA 19" cabinet rack.

FEATURES

1. Two auto-reverse cassette player modules ensure easy servicing and replacement.
2. Dolby B-type noise reduction.
3. Pulse contact for timer-controlled operation.
4. Track Sequence switch adds playback variety.
5. Units cycle automatically or via external timer for continuous play.
6. Full-range, natural sounding playback. (frequency response: 50—15,000Hz)
7. Built-in AGC circuit maintains constant output levels.
8. Blank Skip function quickly and automatically advances tape to next recorded selection.
9. Rack-mountable with optional bracket kit.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
Dolby and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.



SPECIFICATIONS

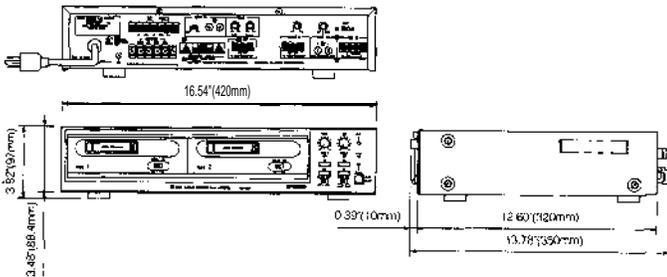
Model No.	BA-806	BA-823
Power Requirements	120V AC, 50/60Hz	
Power Consumption	100W	
Output Power	60W	30W+30W
Distortion	Less than 1% (1kHz at rated output on AUX 2 input)	Less than 0.5% (1kHz at rated output on AUX 2 input)
Frequency Response	TAPE: 50—15,000Hz AUX2: 50—20,000Hz (±3dB)	
Tone Controls	BASS: 100Hz ± 10dB TREBLE: 10,000Hz ± 10dB	
Inputs	MIC: 200Ω 1mV, balanced AUX1: 50kΩ 100mV, unbalanced AUX2: 600Ω 1V, unbalanced LINK IN (signal): 10kΩ 150mV, unbalanced	
Outputs Speaker Output Line Output	4Ω/10Ω; 25V/83Ω; 70V 600Ω 1V, unbalanced	L; 4Ω/R; 4Ω 600Ω 1V, unbalanced
S/N Ratio	TAPE: 50dB (Dolby NR: OFF), AGC OFF 60dB (Dolby NR: ON), AGC OFF MIC: 60dB	
Usable Tape	Compact cassette tapes	
Tape Speed	4.76cm/sec.	
Wow and Flutter	Less than 0.2% (WRMS)	
Playing System	Auto Reverse	
Finish	Front Panel: Aluminum, alumite process (black)/ABS resin Case: Steel color plate (black)	
Dimensions	16.6"(W) x 3.8"(H) x 13.8"(D) (420(W) x 97(H) x 350(D)mm)	
Weight	Approx. 22.7 lbs. (10.3kg)	Approx. 19.2 lbs. (8.7kg)
Optional Accessory	Model MB-25B rack-mounting kit	

Model No.	BA-800
Power Requirements	120V AC, 60Hz
Power Consumption	8W
Distortion	Less than 3% (Mono line out: 1kHz/1V)
Frequency Response	50—15,000Hz
Outputs	Mono line out: 60Ω 1V, unbalanced Stereo line out: 10kΩ 300mV, unbalanced (L/R)
S/N Ratio TAPE	50dB (Dolby NR: OFF), AGC OFF 60dB (Dolby NR: ON), AGC OFF
Usable Tape	Compact cassette tapes
Tape Speed	4.76cm/sec
Wow and Flutter	Less than 0.2% (WRMS)
Playing System	Auto Reverse
Finish	Front Panel: Aluminum, alumite process (black)/ ABS resin Case: Steel color plate (black)
Dimensions	16.6"(W) x 3.8"(H) x 11.9"(D) (420(W) x 97(H) x 300(D)mm)
Weight	Approx. 13.7 lbs. (6.2kg)
Optional Accessory	Model MB-25B rack-mounting kit

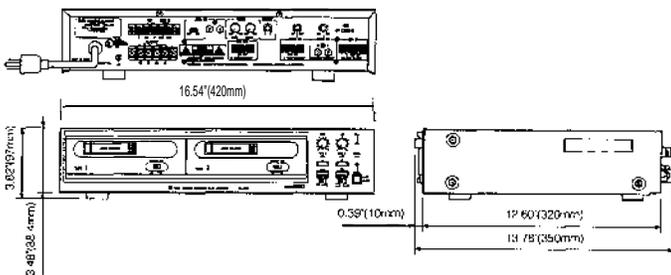
*Specifications are subject to change without notice

APPEARANCE AND DIMENSIONAL DIAGRAM

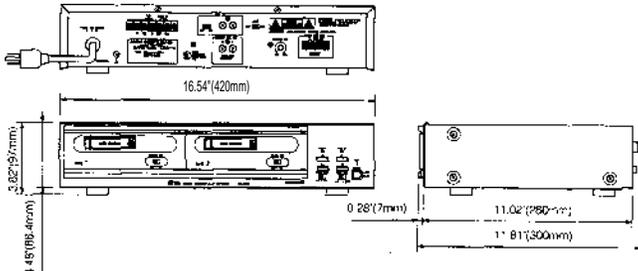
BA-806



BA-823



BA-800



ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The equipment for endless playback of pre-recorded cassettes shall be the TOA Stereo Double Cassette Player (BA-800) or Player Amplifiers (BA-806/823). Either one or two cassette tapes shall be used to provide endless playback. A Track Sequence switch shall select the playback order of tape sides when two tapes are used. A no-voltage momentary contact timer control shall be provided. Two C-90 tapes shall provide up to 180 minutes of uninterrupted playback. In addition, four BA-800 units may be linked to provide continuous eight-cassette playing time of up to 720 minutes. The BA-806 shall have a 60W monaural output, and the BA-823 shall have 2 x 30W stereo output. The players shall accept Normal, Chrome or Metal cassette tapes. A built-in AGC feature shall reduce variations in the audio output level, and Dolby B-type noise reduction shall reduce tape background noise. A Blank Skip function shall be included to automatically bypass periods unrecorded sections more than 10 seconds long. Removable cassette deck units shall be designed for easy maintenance and replacement.

By using optionally available kits, the TOA BA-800/806/823 shall be able to be mounted on a standard EIA 19" cabinet rack.

Notes:

1. The recording head's approx. 2000-hour effective playing life, expandable to 4,000 hrs (8 hours per day for 500 days) by using two units alternatively.
2. The C-120 tapes (120 minutes' recording time for both sides) and endless tapes are not recommended because their tapes are extremely thin and can often be slack or twist, leading to unstable operation. The C-90 (90 minutes) and C-60 (60 minutes) are most commonly used.



TOA Corporation