

GX-280D

GLASS & CRYSTAL
FERRITE HEADS,
AUTOMATIC REVERSE

3-HEAD 3-MOTOR STEREO TAPE DECK



A UNIQUELY DESIGNED 3-HEAD 3-MOTOR STEREO TAPE DECK

....with worldwide acclaimed AKAI robust mechanism.

LIFETIME GUARANTEED GLASS & CRYSTAL
FERRITE Recording and Playback Heads.
Amazing Frequency Response of 30 to
24,000 Hz.

Signal to Noise Ratio better than 50 dB

OUTSTANDING FEATURES

- First rate quality 3-motor system. AKAI's exclusive SERVO-CONTROL MOTOR for direct capstan drive and two eddy-current outer-rotor motors for supply and take-up reel drive.
- Three separate precision heads including GLASS & CRYSTAL FERRITE HEADS for recording and playback. This feature enables monitoring actual sound while recording. Frequency Response from 30 to 24,000 Hz.
- Direct Function Change Control System. Completely Automatic function change control system for easy and speedy changing of operating modes. Unnecessary to depress Stop Button before changing modes.
- Built-in Reel Retainers
- Pause Button with lock. Use for editing tape or for adjustment and balance of optimum recording level when deck is set to recording mode.
- Easy SOUND-ON-SOUND operation. A convenient sound-on-sound button is provided for use in language training as well as professional or fun use.
- Independent Line and Mic for mixing signals from two separate recording sources.
- With AKAI's Remote Control Unit RC-16 (optional accessory), all operating functions of the Model GX-280D can be remote controlled.
- S.R.T. Button (For use when using AKAI Super Range Tape)

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AKAI GX-280D

ROBUST MECHANISM

Only top quality materials are used in the construction of Model GX-280D Tape Deck. Not only the new GX-HEAD and SERVO-MOTOR, but literally all parts are AKAI designed and AKAI manufactured for absolute mechanical dependability. Each part is separately tested for durability and ability to withstand severe conditions. These manufacturing precautions have come to mean "AKAI Reliance" the world over.



3 MOTORS

The new AKAI Model GX-280D employs a first rate quality 3-motor system. The most crucially important capstan drive motor is an epoch-making direct capstan drive SERVO-MOTOR which combines the winding control of the ordinary eddy-current motor and a speed detecting toothed cog-wheel into a single structure mechanism. Thus, the usual instrumental devices such as drive belt, idler, flywheel, etc. are eliminated and tape speed

travel is stabilized. Because of the speed-adjusting completely electrical control circuit, cycle revolutions are always perfectly adjusted. Therefore, tape speeds are extremely accurate and wow/flutter substantially decreased. Two eddy-current outer-rotor motors assure smooth and stable supply and take-up reel drive. Fast Forward and Rewind time is 60 seconds using a 1,200 ft. tape at 60 Hz and 75 seconds at 50 Hz.



GLASS & CRYSTAL FERRITE HEADS

Glass & Crystal Ferrite recording and playback heads, the cores of which are made of the gem "crystal ferrite" and the inner circumference of the head shield (including core and gap) mounted and set in glass. No adhesion of dust on the ceramic-like head surface. Because of ideal hardness and friction characteristics, abrasion is practically nil. Guaranteed for 150,000 hours of service life! The crystal ferrite core possesses an exact amount of magnetism to form a "bias field". By focusing the magnetic bias field, the bias influence is lessened for recording high frequencies without distortion. Playback head is a uniquely designed shifting playback head enabling automatic reverse play. Heads are shielded for good S/N ratio. Frequency Response an amazing 30 to 24,000 Hz.

AUTOMATIC STOP/SHUT-OFF

When the tape ends or is accidentally broken, the Automatic Stop/Shut-Off Lever is released and reel movement stops. If the Automatic Shut-Off Button is depressed, when the Shut-Off Lever is released, the power of the unit is cut off.

S.R.T. BUTTON

For use when using AKAI Super Range Tape. This is a new low noise tape and is highly recommended for superior performance.

SOUND-ON-SOUND BUTTON

Convenient for language training as well as professional or fun use. Also independent Line and Mic circuits for mixing. Interesting and entertaining.

DIRECT FUNCTION CHANGE

Direct change from Fast Forward or Rewind to normal operating mode (the necessity of using the Stop Button to stop the tape before Fwd mode, etc. is eliminated).

A PERFECT MATCH

AKAI Tuner Amplifier and Speaker Systems are designed to match and enhance the performance of AKAI Tape Recorders and Decks. Models AA-8500 Tuner Amplifier and SW-175 Speaker System are highly recommended for use together with Model GX-280D Tape Deck.

STANDARD ACCESSORIES

7" Empty Metallic Reel 1
DR-111 Connection Cord 1
Sensing Tape 1
Spare Fuse 2
Operator's Manual 1

Model GX-280D SPECIFICATIONS

Track System	4-track 2-channel stereo/monaural system	Fast Forward and Rewind Time	60/75 seconds using a 1,200 ft. tape at 60/50 Hz.
Maximum Reel Capacity.	7" reel	Recording Capacity	2 hours stereo recording using a 1,200 ft. tape at 3- $\frac{3}{4}$ ips
Tape Speed	7- $\frac{1}{2}$ and 3- $\frac{3}{4}$ ips ($\pm 0.5\%$)	Output Jacks	Line (2): 1.23 V ("O" VU)/100 Ω (Required load impedance more than 20 k Ω)
Wow and Flutter	Less than 0.08% RMS at 7- $\frac{1}{2}$ ips Less than 0.12% RMS at 3- $\frac{3}{4}$ ips	Input Jacks	Headphone (1): 30~40 mV/8 Ω Microphone (2): 0.8 mV/10 k Ω
Equalization	Correct equalization for playback of tapes recorded to NAB curve	Line (2): 150 mV/150 k Ω	
Frequency Response	30 Hz to 24,000 Hz (± 3 dB) at 7- $\frac{1}{2}$ ips 30 Hz to 19,000 Hz (± 3 dB) at 3- $\frac{3}{4}$ ips	DIN Jacks	0.4 V/50 mV (High) 5 mV (Low)
Distortion	Less than 1.5% (1,000 Hz "O" VU)	Semi Conductors	Transistor: 39 Diode : 32
Signal to Noise Ratio	Better than 50 dB	Integrated Circuits	Linear IC : 2
Erase Ratio	Better than 70 dB	Power Source	100 V to 240 V AC, 50/60 Hz
Cross-Talk	Better than 70 dB (Monaural) Better than 50 dB (Stereo)	Power Consumption	30~130 W
Bias Frequency	100 kHz	Dimensions	435 (W) X 460 (H) X 260 (D) mm (17" X 18" X 10")
Heads	3, Glass & Crystal Ferrite Recording & playback Heads, Erase Head	Weight	21 kg (44 lbs)
Motors	3, 2-speed Servo-Control Outer-rotor motor for direct capstan drive Two 6-pole Eddy-current Outer-rotor motors for supply & take-up reel drive		

The AKAI policy is one of continual development and improvement. For that reason, AKAI reserves the right to change specifications without notice, and without incurring any obligation relating to models previously manufactured by them.

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