

# AKAI

# GXC-570D CASSETTE STEREO TAPE DECK

This prestige tape deck is designed for the ultimate in convenience and recording and playback quality. Incorporates the world's most advanced engineering techniques, mechanisms, and parts including AKAI's GX Head, 3 motor double capstan drive system.



tionately at playback time. With this process, extraneous noise is eliminated, also eliminating tape hiss. The GXC-570D's 3 head system and Tape Monitor Switch facilitates A-B monitoring (comparing recording being made with source signals), and the Double Dolby Process (separate circuits for recording and playback modes) extends this feature to Dolby recording as well. Further, because there is no space between the recording and playback heads, there is no time lag between recorded and played back signals during monitoring. Thus, truly professional results are attained.

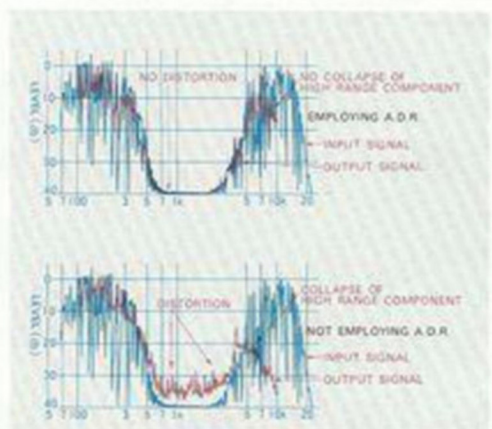
#### PRECISE RECORDING CALIBRATION

A Calibration Tone Switch activates a built-in oscillator to supply a 400 Hz recording signal for recording calibration adjustment. While the Recording Calibration Adjusters feature "click" average factory preset positions, easy fine adjustment can also be made to accommodate the characteristics of the particular tape being used. This feature is especially convenient and effective when making a Dolby recording.



#### AKAI'S A.D.R. (automatic distortion reduction) SYSTEM

Akai's built-in A.D.R. System not only automatically adjusts the recording equalization at high frequencies, but also suppresses intermodulation distortion for clear sound over the entire frequency band.



#### METER SELECTOR SETS METERS FOR VU METER OR PEAK METER INDICATION

When set to VU Meter position, the meters indicate normal VU recording and playback levels and when set to Peak Meter position, the meters are set for professional quick response peak level indication. Thus, setting the meters for peak indication and re-adjusting the input level so that peaking does not exceed "0" on the meter scales, enables the operator to utilize the full dynamic range of the tape without incurring distortion by over-recording. Especial-

ly convenient when recording pulsive signals such as from percussion instruments, etc. Individual Peak Meter and VU Meter Indicator Lamps.



#### SOUND MIXING FROM SEPARATE SOURCES

Independent Mic and Line Input Jacks and Controls facilitate easy sound mixing from separate sources. Convenient "click" type controls.

#### SMOOTH LOGIC CIRCUIT OPERATING CONTROLS FEATURE DIRECT FUNCTION CHANGE

Logic circuit controls provide exceptionally smooth "touch sensor" control and enables fast and easy mode selection. Direct function change to recording mode facilitates easy add-on recording. Controls also feature individual indicator lamps for easy confirmation of operating mode.

#### LIMITER SWITCH CUTS DISTORTION FOR CLEAR RECORDING AT EXCESS RANGE

This circuit suppresses signals over a certain volume to prevent over-recording and cut distortion. Especially convenient when recording from microphones at close range.

#### FRONT LOADING CONVENIENCE

Front loading design and ideal tape positioning facilitate tape loading convenience and easy label reading. Cassette housing lamps, a cassette well illuminator, and a see-through window assure clear tape observation even in a dark room.

#### MPX FILTER SWITCH

The built-in MPX Filter of this model can be turned off and on by means of a front panel MPX Filter Switch. This feature enables cutting disturbance caused by the 19 kHz pilot signal during FM MPX stereo broadcast recording through an FM receiver or tuner. The ability to turn off the filter at all other times restores full wide range frequency response.



#### AUTOMATIC TAPE SETTING PREVENTS TAPE SLACK AND ASSURES STABLE TAPE START

When a tape is loaded, the supply reel motor is activated and the tape rewound slightly to take up any existing tape slack for perfectly stable tape start. Further, the logic circuit employed in this model brings the tape to a perfect stop between modes for completely smooth recording and playback start.

#### DOUBLE ACTION OIL DAMPED CASSETTE EJECT

When the Eject Button is depressed, the cassette receptacle glides smoothly away from the machine and outward for easy tape loading. When the Eject Button is depressed during an operating mode, a tape safety mechanism is activated to completely stop the tape before eject is effected. Further, two levels inside the cassette well prevents the tape from being loaded upside down.

#### INSTANTANEOUS FULL RELEASE AUTOMATIC STOP

An efficient Hall IC is employed in this new full release automatic stop circuit. When automatic stop is effected at the end of the tape, the entire head block including pinch rollers and heads separate from the tape. Protects tape and prevents pinch roller wear.

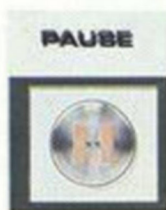
#### AUTOMATIC DOOR OPENER

The GXC-570D features a push-button Door Opener which activates an independent motor to automatically open or close the smoked acrylic door which covers the upper front panel controls.



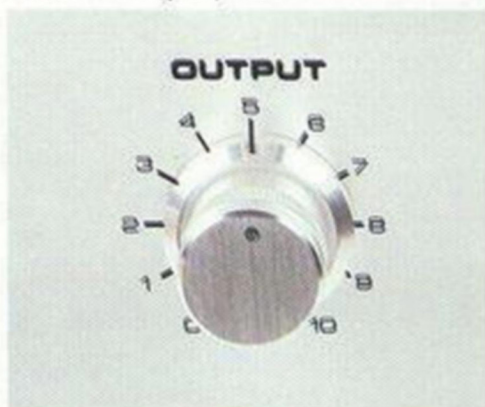
#### PAUSE CONTROL

Momentarily suspends tape travel during recording or playback. Especially convenient for easy tape editing.



#### OUTPUT LEVEL CONTROL

A "click" type Output Level Control enables fast and accurate adjustment of output level to match external amplifier input. Permits connection with any amplifier.



# nd capability with

## USE LOW NOISE, CHROMIUM DIOXIDE, OR FERRI-CHROME TAPE

A 3-way Tape Selector Switch sets the machine to ideal bias and equalization according to the tape being used. The ability to use quality tape complements the superior mechanisms of this machine for the optimum in recording and playback quality.



## REPEAT PLAYBACK PLUS MEMORY REWIND

When the Repeat Button is depressed, at the end of playback or recording mode, the tape rewinds and the machine is auto-

matically set to continuous playback mode. The Memory Rewind Button can be used together with the Index Counter and set to effect stop mode from rewind at any place on the tape. Memory Rewind can also be used together with the Repeat Button for automatically setting the machine to continuous playback mode from memory rewind position.

## FAST FORWARD AND REWIND SPEED CONTROL

Adjust Fast Forward and Rewind time according to tape thickness. Prevents thin tape from being broken at high speed.

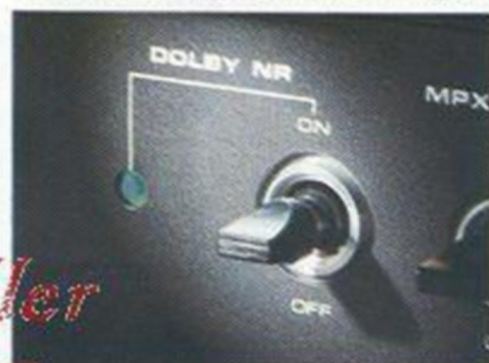


## PITCH CONTROL PLAYBACK

Modify playback musical tone as desired with Pitch Control adjustment. Musical interval can be changed by up to plus/minus 1 semi-tone (tape speed plus/minus 5%). Also convenient for precise adjustment of tape speed when playing back tapes recorded on another machine.

## DOUBLE PROCESS DOLBY AND A-B MONITORING

This machine incorporates the Double Dolby Process system wherein low level signals are raised prior to recording and lowered propor-



*beim Hersteller  
Archiv Michael-Otto*



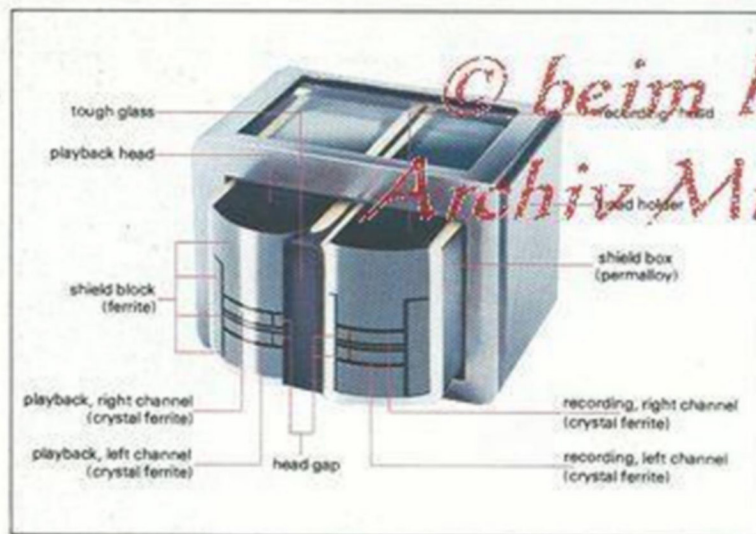
# Experience the utmost in operating ease this "top of the line" cassette deck.

## GX 3 HEAD, 3 MOTOR, DOUBLE CAPSTAN DRIVE SYSTEM

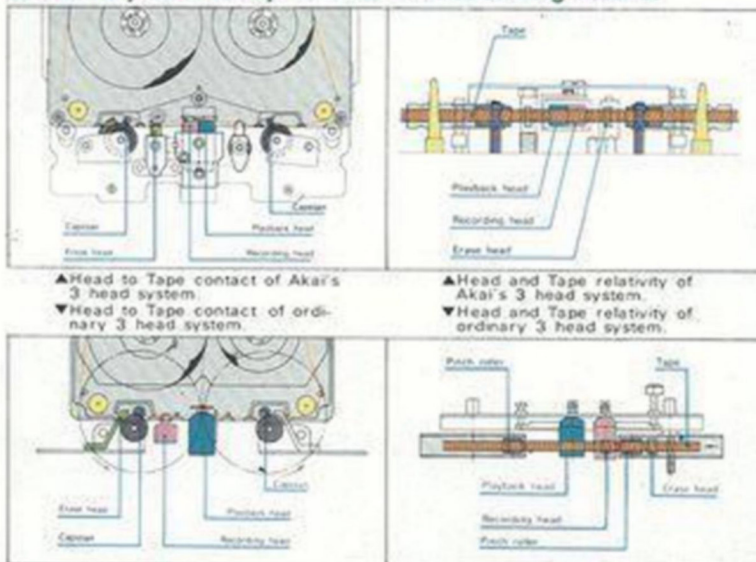
### Heads

The GXC-570D is Akai's top front loading type cassette tape deck and, naturally employs Akai's renown wear-free GX recording and playback heads. Further, a new head arrangement assures perfect tracking so that clumsy azimuth alignment mechanisms, beacons, etc. are completely unnecessary.

With this unique 3 head system, the recording and playback heads are mounted in a single head holder. This arrangement provides perfect parallelism of recording and playback head gaps and, because of the proximity of the heads, there is no phase deviation between recording and playback head tracks. Azimuth loss is also eliminated so that azimuth alignment, etc. is unnecessary. This new head positioning plus the professional characteristics of the GX heads themselves brings out the full capability of the tape. Also head-to-tape contact is improved and ideal head shielding reduces feed through of magnetic flux.



### 3 head system for professional recording results



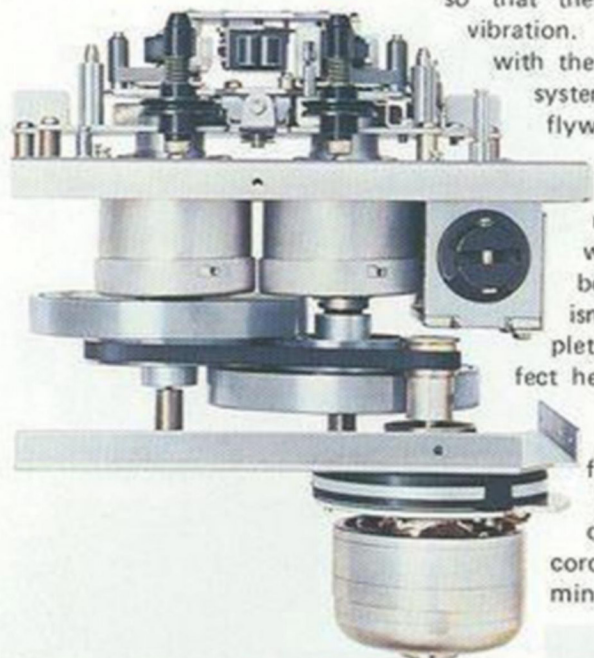
### Motors

A new C.P.G. type AC Servo Motor and two completely new DC "slotless" rotor core motors constitute the superior drive system of this model. The AC Servo capstan drive motor is a C.P.G. (center pole frequency generated) motor with which a center magnetic pole is established for equal radiation. Merits of this motor include greater inertia and increased output for an extremely quiet motor with perfectly accurate motor revolutions. For reel drive, the GXC-570D employs two of Akai's brand new "slotless" DC drive motors. Because the core of this motor is cylindrical (has no concave or convex parts), there is no variation between the magnetic poles of all magnetic field. Thus, there is no unevenness. These unique features result in smooth motor rotation for the elimination of motor rotating noise and decreased wow and flutter.



### Closed loop double capstan drive

One each capstan and pinch roller positioned in parallel on either side of the head block provides perfectly stable tape tension and tape speed.



This system shuts out the adverse influence from outside the "closed area" between capstans so that there is no tape vibration. This together with the 3 motor drive system, extra large flywheels, and a specially designed head mounting plate with linear ball bearing mechanism assures complete stability, perfect head-to-tape contact, and reduces wow and flutter to 0.00% WRMS. So drop-out at recording time is also minimized.

## TECHNICAL DATA

Track System:	4 track 2 channel stereo system
Tape:	Philips type cassette
Tape Speed:	1-7/8 ips, (pitch control playback $\pm$ 5%)
Wow and Flutter:	Less than 0.06% WRMS (NAB), Less than 0.17% (DIN 45500)
Frequency Response:	30 Hz to 15,000 Hz ( $\pm$ 3 dB) using low noise tape 30 Hz to 16,000 Hz ( $\pm$ 3 dB) using CrO <sub>2</sub> tape 30 Hz to 19,000 Hz ( $\pm$ 3 dB) using Fe-Cr tape
Distortion:	Less than 1% (1,000 Hz "0" VU) using low noise tape.
Signal-to-Noise Ratio:	Better than 52 dB (measured via tape with peak recording level of +5 VU) Dolby Switch ON; Improves up to 10 dB above 5 kHz
Erase Ratio:	Better than 70 dB
Bias Frequency:	100 kHz
Heads:	GX recording head, GX playback head and erase head (3 head system)
Motors:	One AC Servo outer-rotor motor for capstan drive, and two DC motors for reel drive.
Fast Forward and Rewind Time:	60 to 80 seconds (variable) using a C-60 cassette tape
Output Jacks:	Line (2): 0.775V ("0" VU). Required load impedance: More than 20 k ohms Phone (1): 50 mV/8 ohms
Input Jacks:	Microphone (2): 0.3 mV. Required microphone impedance: 600 ohms Line (2): 70 mV/100 k ohms
Semi-conductors:	Transistors 110, Diodes 159, FETs 12, ICs 9
Power Requirements:	CSA, UL and LA Models: 120V, 60 Hz only CEE Models: 220V, 50 Hz only. Other Models: 100V to 240V, 50, 60 Hz, (switchable)
Dimensions:	440(W) x 255(H) x 225(D) mm (17.3 x 10.0 x 8.9")
Weight:	13.5 kg (28.5 lbs)

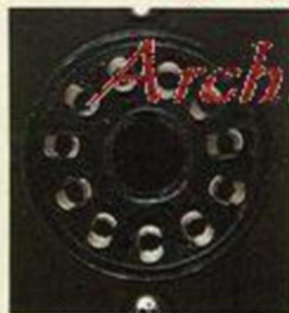
## STANDARD ACCESSORIES

Connection Cords: 1 set Spare Fuses: 1 set Operator's Manual: 1  
\* Spare fuses not included with CSA, CEE, UL and LA models.

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### REMOTE CONTROL

This model is equipped with a Remote Control Jack which accommodates Akai's Optional Accessory Remote Control Unit C-17, or RE-15 for remote control of other operating functions. Either of these remote control units can also be used together with a timer for absentee recording.



- \* For improvement purposes, specifications and design are subject to change without notice.
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