

LEVER CONTROL

AKAI

3 MOTOR, ALL GX HEAD STEREO TAPE DECK

GX-230D

Ref 358

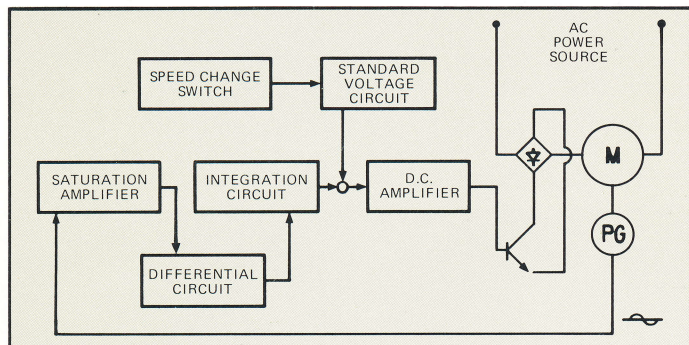
AC Servo Capstan Motor and GX Head characteristics assure complete tape travel stability and long lasting performance. Automatic and Manual Reverse Playback.
Model GX-230 complete also available.



INTEGRATED AKAI QUALITY FEATURES FOR UNPARALLELED PERFORMANCE

New AC Servo Motor

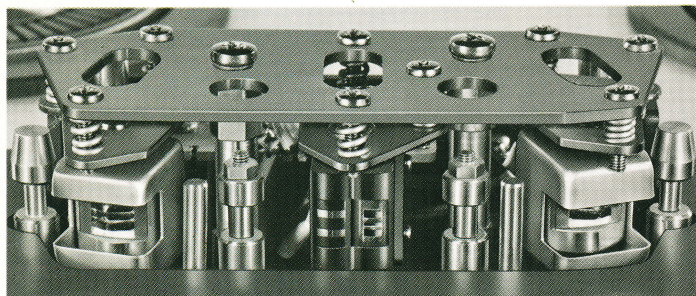
The new AKAI AC Servo Motor employed in this model for direct capstan drive is equipped with 114 gears on both the rotor and stator sides and a detector coil and magnet are built in on the stator side for a completely new pulse detection system. With this system, pulse detection is made only once every 114 pulses instead of at each pulse for greatly increased pulse output.



The detected pulse, after saturated amplification, passes the differential circuit and integration circuit and this signal is then added to the signal from the standard voltage circuit. Then this composite signal is supplied to the DC Amplifier. Following DC amplification, the signal passes the diode block and the current which flows to the motor is controlled for absolutely stable motor revolutions and tape speed. Other advantages of this system over the usual DC Servo Motor with magnetic braking system include simplified construction, absence of heat generation, and substantially decreased ripple as a result of the mechanical eccentricity of the rotor.

All GX Heads

One each GX Forward Playback, GX Reverse Playback, and combination GX Recording/Erase Head guarantees long lasting performance. As is well known, the core of these heads are made of single crystal and are mounted and set in glass. The wear-free characteristics of these materials permit a perfectly lineal head gap for a "focused field" system and optimum head-to-tape contact which results in a wider dynamic range with excellent signal-to-noise ratio.



TECHNICAL DATA

Track System: 4 track 2 channel stereo system
Reel Capacity: Up to 7" reel
Tape Speed: 7-1/2 and 3-3/4 ips ($\pm 0.7\%$)
Wow and Flutter: Less than 0.06% RMS at 7-1/2 ips; Less than 0.08% at 3-3/4 ips
Frequency Response: 30 Hz to 23,000 Hz (± 3 dB) at 7-1/2 ips using AKAI LN-150-7 Tape. 30 Hz to 19,000 Hz (± 3 dB) at 3-3/4 ips using AKAI LN-150-7 Tape.
Distortion: Less than 1% (1,000 Hz "0" VU)
Signal-to-Noise Ratio: Better than 60 dB (measured via tape with peak recording level of +6VU)
Erase Ratio: Better than 70 dB.
Bias Frequency: 100 KHz
Heads: (3): One GX Forward Playback, One GX Reverse Playback, One combination GX Recording/Erase Head
Motors: (3): One AC Servo Motor for capstan drive, Two eddy current motors for reel drive
Fast Forward and Rewind Time: 75 sec. using a 1,200 ft. tape

* Specifications determined with Scotch #211 tape unless otherwise noted.

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

Symmetrical Head Block, Impedance Roller, and Tension Arms for even tape travel in both directions

For perfectly equal tape speed and even tape tension in both directions, the head block layout is of symmetrical design and the machine is equipped with an impedance roller and tension arms. These features function together as integral parts of this GX Head, AC Servo Motor system for unparalleled stability and long-lasting quality performance.

AUTOMATIC AND MANUAL REVERSE PLAYBACK

Automatic Reverse Playback is as simple as applying a piece of sensing foil to the tape at desired reversing point. Manual Reverse Buttons can be operated at any time during playback.

AUTOMATIC STOP stops reel movement at end of tape.

PAUSE CONTROL for easy tape editing.

LOW NOISE/WIDE RANGE TAPE SELECTOR

OUTPUT LEVEL CONTROL for perfect matching with external amplifier input.

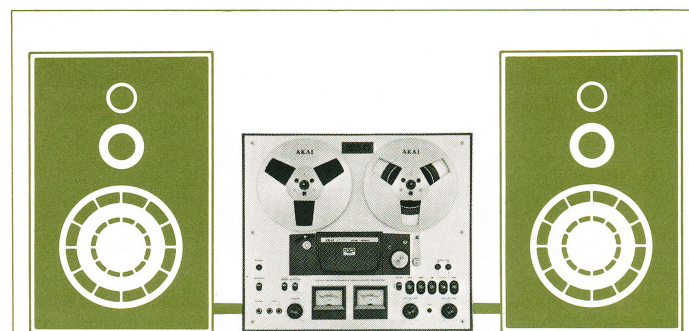
EXPANDED VU METERS for accurate VU indication.

DIRECT FUNCTION CHANGE CONTROL for speedy mode change.

DUAL MONITORING for expert input level control.

INDEPENDENT LINE AND MICROPHONE CONTROLS
SOUND MIXING.

ABSENTEE RECORDING through the use of an external timer.



Model GX-230 is also available and incorporates the same outstanding features as the deck model. This model is equipped with Speaker Jacks so that a pair of speakers is all that is necessary for playback.

STANDARD ACCESSORIES

Empty Reel (1) Connection Cord (1) Fuses (1 set)
 Operator's Manual (1)

* Spare Fuses not included with CEE, CSA, UL, and LA models.

Output Jacks: Line(2): 0.775V ("0" VU) (Required load impedance: more than 20 Kohms)
 Phone(1): 30 mV
 Speaker (2): Continuous power output: 7 watts per channel minimum RMS at 8 ohms load impedance from 100 Hz to 20,000 Hz, both channels fully driven to rated per channel power with no more than 3% total harmonic distortion.
Input Jacks: Microphone(2): 0.3 mV/4.7 K ohms; Line(2): 70 mV
Din Jack: 0.5 V/3 mV
Semi Conductors: GX-230: Transistors 41, Diodes 32, ICs 2
 GX-230D: Transistors 41, Diodes 28
Power Requirements: U.S.A. and Canada (CSA, UL, and LA) Models: 120V, 60 Hz only; CEE Models: 220V, 50 Hz only; Other Models: 100V to 240V, 50/60 Hz (Switchable)
Power Consumption: GX-230: 120W; GX-230D: 90W
Dimensions: 440(W) x 395(H) x 205(D)mm (17.3 x 15.6 x 8.1")
Weight: GX-230: 16.7 kg (36.7 lbs.); GX-230D: 15.2 kg (33.4 lbs.)