

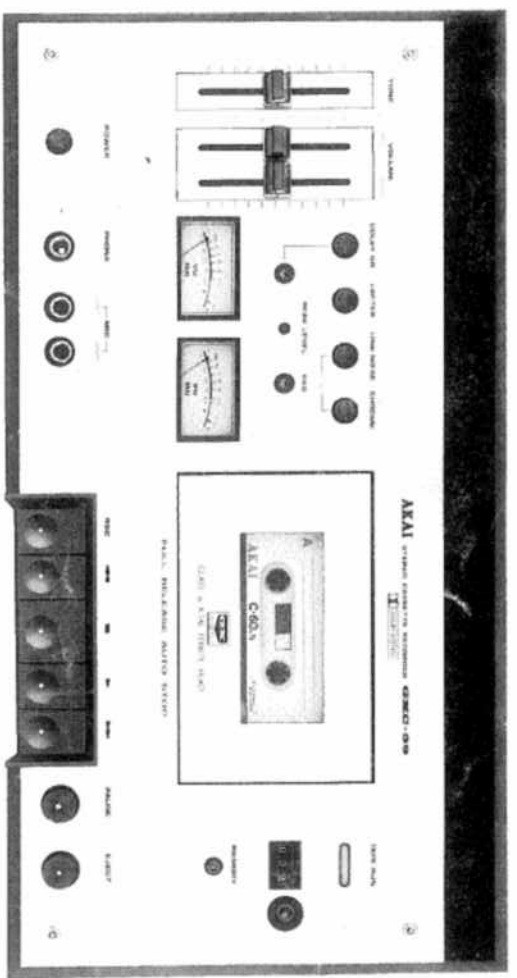
GXC-39/39D

249803

HYUNDAI ELECTRONICS

CASSETTE STEREO TAPE RECORDER / TAPE DECK

OPERATOR'S MANUAL



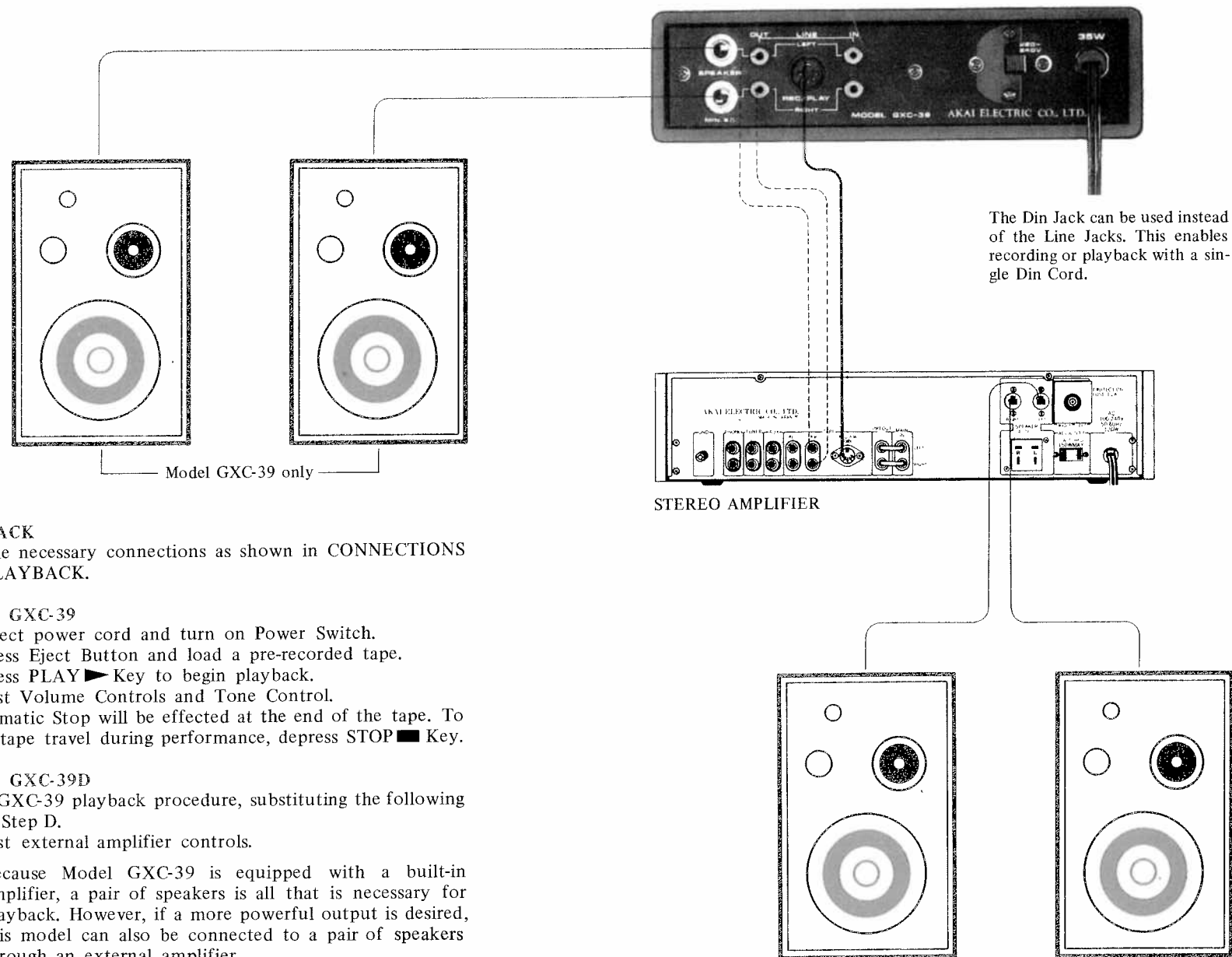
WARNING:

To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

AKAI

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CONNECTIONS FOR PLAYBACK



PLAYBACK

Make the necessary connections as shown in CONNECTIONS FOR PLAYBACK.

MODEL GXC-39

- Connect power cord and turn on Power Switch.
 - Depress Eject Button and load a pre-recorded tape.
 - Depress **PLAY** ► Key to begin playback.
 - Adjust Volume Controls and Tone Control.
- * Automatic Stop will be effected at the end of the tape. To stop tape travel during performance, depress **STOP** ■ Key.

MODEL GXC-39D

Follow GXC-39 playback procedure, substituting the following step for Step D.

- Adjust external amplifier controls.

Note: Because Model GXC-39 is equipped with a built-in amplifier, a pair of speakers is all that is necessary for playback. However, if a more powerful output is desired, this model can also be connected to a pair of speakers through an external amplifier.

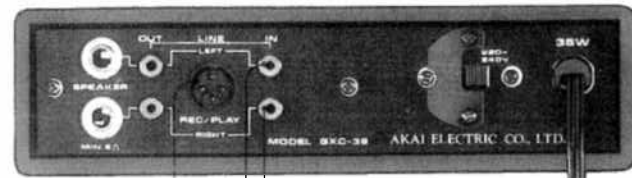
CONNECTIONS FOR RECORDING

RECORDING

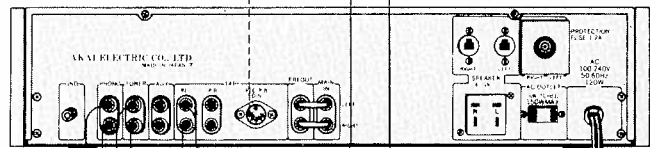
Connect desired program source to appropriate inputs as shown in CONNECTIONS FOR RECORDING.

- Connect power cord and turn on Power Switch.
- Depress Eject Button and load a tape (new tape gives best results).
- Set Index Counter to "000".

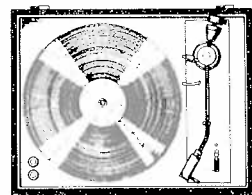
CONNECTIONS FOR RECORDING



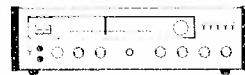
Connect desired source with
RCA/RCA connection cord.



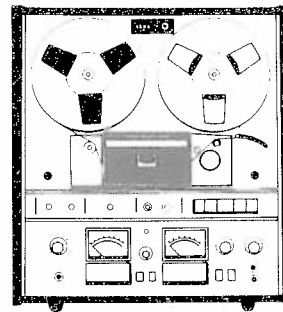
STEREO AMPLIFIER



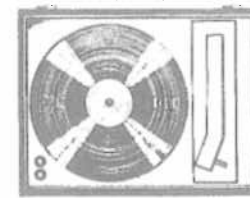
TURNTABLE WITH
MAGNETIC CARTRIDGE



STEREO TUNER



STEREO TAPE
RECORDER OR TAPE
DECK



RECORD PLAYER WITH
CRYSTAL OR CERAMIC
PICK-UP

RECORDING

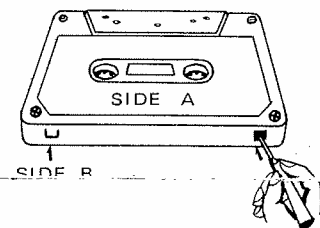
Connect desired program source to appropriate inputs as shown in CONNECTIONS FOR RECORDING.

- Connect power cord and turn on Power Switch.
 - Depress Eject Button and load a tape (new tape gives best results),
 - Set Index Counter to "000".
 - Depress Recording (REC) Key.
 - Adjust and balance recording input level with Volume Controls (GXC-39D Recording Level Controls) while observing VU Meters.
 - When an optimum recording level has been determined, while holding the Recording (REC) Key at depressed position, depress PLAY ► Key to begin recording.
- * Automatic Stop will be effected at the end of the tape. To stop tape travel during recording, depress STOP ■ Key.

CONTROLS

OPERATING PRECAUTIONS

- * Operate this machine in a level horizontal position only.
- * Avoid setting this machine on a vacuum tube amplifier, etc. which generates heat, or operating the unit in extremely hot or cold places. Also avoid blocking the ventilator.
- * Heads should be kept clean and demagnetized at all times.
- * This machine is designed for utilization of low noise tape as standard. The use of ordinary tape will result in inferior performance.
- * Before using a cassette tape, check to confirm whether tape slack exists. As tape slack causes the tape to twist or tangle around the pinch wheel and capstan, take up slack if necessary.
- * As the base of C-120 tapes are thin and easily damaged, they are not recommended for use with this machine.
- * Recording cannot be made on the leader tape. Therefore, when using a new cassette tape, be sure to forward the tape slightly so that the leader tape is not in the head path.
- * Tapes which have been stored in a hot moist place for a period of time or cassette tape with bent cases should not be used. Such tape may curl or have greasy places on the tape altering tape speed and preventing proper performance. Always store tapes in a cool, dry place.
- * Do not touch the tape with your fingers as high frequency signals cannot be recorded in places which are not clean on the tape.
- * When using a tape recorded with the Dolby process, it is necessary to depress the Dolby NR Switch at playback time also. Keep the Dolby NR Switch at OFF position at all times except during Dolby recording or playback.
- * Cassette tapes are equipped with a break-out tab for both A and B sides. When these tabs have been removed to protect an important recording, no further recording can be made on the tape unless the cavities are plugged or covered with a piece of tape.



PEAK LEVEL INDICATOR

At normal recording, VU Meter response is usually accurate but when pulsive signals enter, such as signals from percussion instruments, etc., response is slow and lower than actual volume is registered. This peak level indicator acts as a warning device by lighting at excessive input. Because, for recording with the least noise possible, it is advantageous to keep the recording level as high as possible not to exceed the level at which distortion occurs due to excessive input, for best recording results, the level range in which this light flickers at largest input parts only is most ideal. (This indicator does not function when the Limiter Switch is being used).

DOLBY NR SWITCH AND INDICATOR LAMP

Setting the Dolby NR Switch to ON position activates the Dolby circuit to raise low level signals before they are recorded and lowers them by precisely the same amount during playback, thus reducing the extraneous and superimposed noise, resulting in the reduction of tape hiss to a completely inaudible level. The Dolby Indicator Lamp lights when the Dolby NR Switch is depressed.

- * When using a tape recorded with the Dolby process, it is necessary that the switch be set to ON position at playback also.
- * "Dolby" and the Double D symbol are trademarks of Dolby Laboratories, Inc. (Under license from Dolby Laboratories, Inc.)

TONE CONTROL (Model GXC-39 only)

Adjusts tone during playback.

VOLUME CONTROLS (Left/Right)

(GXC-39D RECORDING LEVEL CONTROLS)

Adjusts input and output volume level. (GX-39D recording input level). Adjust while observing VU Meters.

LEFT VU METER

Indicates left channel recording and playback levels.

RIGHT VU METER

Indicates right channel recording and playback levels.

POWER SWITCH

HEADPHONE JACK

Accommodates stereo headphones of 8Ω impedance for monitoring or private headphone listening.

MICROPHONE JACKS (Left/Right)

RECORDING INDICATOR LAMP

Light when REC Key is depressed.

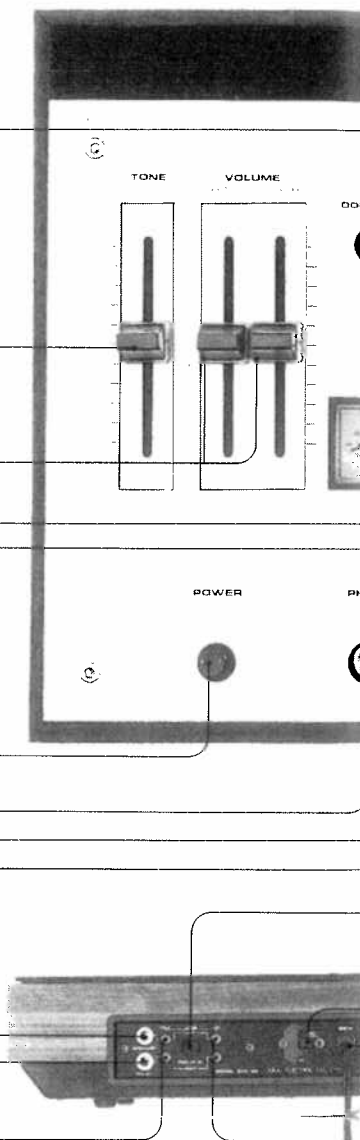
SPEAKER JACKS (Model GXC-39 only)

OUTPUT JACKS (Left/Right)

Connects to tape inputs of external amplifier or tape recorder.

LIMITER SWITCH

Set this switch to ON position limit recording input level and prevent over-recording and cut distortion when recording at a high volume level. Especially effective when recording from microphones at close range.



INTRODUCTION

Your new GX Head unit is made of the very finest materials and incorporates the very latest in recording and playback techniques and, with proper care, will bring you many years of music listening pleasure. We, therefore, urge you to READ THIS MANUAL THOROUGHLY BEFORE ATTEMPTING OPERATION.

cassette lid frame by bringing toward front of machine and lifting upward.

4. With machine at Stop mode, clean recording/playback and erase heads with a cotton swab stick dipped in Akai Cleaning Fluid (from Akai Head Cleaning Kit HC-500). Also clean pinch wheel and capstan and other parts over which the tape travels. (Heads are most accessible when facing

- * Do not bring the demagnetizer close to the VU Meters.

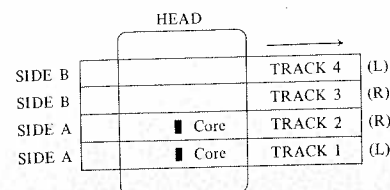
TAPE ERASING

Any signals previously recorded on the tape will be automatically erased as a new recording takes place. For erasing only, no plugs should be connected to the input jacks and Recording Level Controls

INTRODUCTION

Your new GX Head unit is made of the very finest materials and incorporates the very latest in recording and playback techniques and, with proper care, will bring you many years of music listening pleasure. We, therefore, urge you to **READ THIS MANUAL THOROUGHLY BEFORE ATTEMPTING OPERATION.**

CASSETTE TRACK SYSTEM



This model employs a 4-track recording/playback system. The first half of the stereophonic recording or playback takes place on tracks 1 and 2. The second half takes place on tracks 3 and 4 after the cassette tape has been inverted. Recording and playback depends upon the length of the tape (C-30, 30 minutes; C-60, 60 minutes, etc.). Monaural and stereo recorded tapes can be played back on either stereo or monaural cassette recorders without any loss in quality. Because the total track width of the left and right channels is equal to that of the monaural track, when a stereo cassette is played on a monaural recorder, the playback head will scan both left and right channels together. This results in automatic mixing of left and right channels from the stereo tape for monaural reproduction.

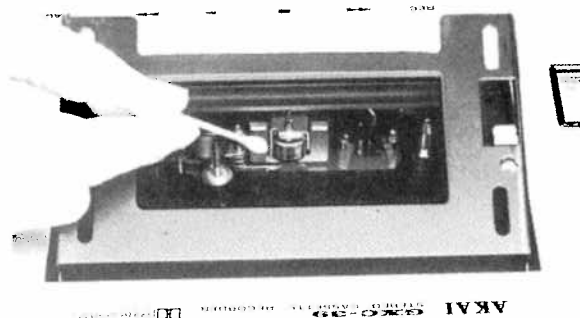
HEAD CLEANING

It is important for the heads and the head block area to be kept clean at all times as dust adhering to these parts deteriorate sound quality. This model is equipped with a GX recording/playback head and, while GX Head cleaning is not normally necessary, if old tape or splicing tape, etc. is used, GX Head cleaning is also recommended.

1. Turn off Power Switch.
2. Remove cassette from receptacle and depress cassette holder to flat horizontal position.
3. Remove cassette lid (tape view window) from

cassette lid frame by bringing toward front of machine and lifting upward.

4. With machine at Stop mode, clean recording/playback and erase heads with a cotton swab stick dipped in Akai Cleaning Fluid (from Akai Head Cleaning Kit HC-500). Also clean pinch wheel and capstan and other parts over which the tape travels. (Heads are most accessible when facing the rear panel of the recorder).



- * If Akai Cleaning Fluid is not available, use alcohol. Do not use other chemical cleaners as the rubber parts will deteriorate.

HEAD DEMAGNETIZING

Normally, the steel pole pieces which form part of the recording/playback head as well as parts over which the tape travels become slightly magnetized and as a result, the tape is partially erased at high frequencies. Therefore, head demagnetizing is recommended periodically.

1. Turn off Power Switch.
2. Remove cassette from receptacle and depress holder plate to flat horizontal position.
3. Remove cassette lid (tape view window) from cassette lid frame by bringing toward front of machine and lifting upward.
4. With machine at Stop mode, demagnetize heads and other parts which the tape contacts with a bulk Head Demagnetizer by bringing the prongs of the demagnetizer close to the heads and making small circular motions over the entire head block area. (Heads are most accessible when facing the rear panel of the recorder).

- * Do not bring the demagnetizer close to the VU Meters.

TAPE ERASING

Any signals previously recorded on the tape will be automatically erased as a new recording takes place. For erasing only, no plugs should be connected to the input jacks and Recording Level Controls should be kept at minimum. For quick and complete erasure, a bulk tape eraser is recommended.

LUBRICATION

Although the motor of this model is sufficiently oiled for prolonged use, for maximum service and optimum performance, please take your machine to your local authorized AKAI agent for occasional lubrication.

TAPE SELECTOR SWITCHES

Depress LOW NOISE Switch when using low noise tape and depress CHROME Switch when using chromium dioxide tape.

* Depressing these two switches simultaneously facilitates the use of new FeCr tape.

* Low noise tape is standard for this machine. The use of ordinary tape will result in inferior performance.

CASSETTE RECEPTACLE LID (with Tape View Window)

Opens when Eject Button is depressed. To load a tape, depress Eject Button and insert cassette with tape facing the heads (toward front of machine) and close lid. When properly positioned, pressure from lid will set cassette.

TAPE RUN INDICATOR

Lights during tape travel.

INDEX COUNTER AND RESET BUTTON

Tape indexing is made easy with this 3-digit Index Counter. Provides an easy reference for quickly locating positions on the tape. To reset to "000", depress Reset Button.

MEMORY REWIND BUTTON

Set Index Counter to "000" and depress the Memory Rewind Button for automatic stop from Rewind at any place on the tape.

PAUSE BUTTON

Depress to momentarily suspend tape travel during recording or playback. Convenient for editing tape. Simply depress when a certain portion of the program is not desired. Depress again to release.

EJECT BUTTON

Depress to eject cassette tape. Because the Eject Button will not operate during recording or playback mode, first depress the Stop Key and then the Eject Button.

FAST FORWARD KEY

Advances tape at high speed.

PLAY KEY

Advances tape for playback or recording mode.

STOP KEY

Depress to stop tape travel.

REWIND KEY

Rewinds tape at high speed.

RECORDING KEY

Depress this key and the Play Key simultaneously to effect recording mode.

DIN JACK

Enables inter-connection with an external amplifier through the use of a single Din connection cord.

VOLTAGE SELECTOR (CEE, CSA, UL and LA Models are not equipped with this facility.)

DIRECT FUNCTION CHANGE CONTROL SYSTEM

INPUT JACKS (Left/Right)
Connects to tape outputs of external source.

the STOP Key prior to changing modes is eliminated.

TROUBLE SHOOTING CHART

The conditions listed below do not indicate mechanical failure of your unit. If your machine exhibits any of these conditions check for trouble as indicated.

SYMPTOM	TROUBLE	REMEDY
Recording Key will not function.	* Cassette is not loaded. * Cassette break-out tabs are removed.	* Plug or cover cavities.
Tape will not run.	* Power is not being supplied. * Tape slack.	* Check power cord and Power Switch. * Take up slack as mentioned in OPERATING PRECAUTIONS.
Noisy sound.	* Heads are magnetized. * Heads are dirty. * Connections are incorrect. * Tape Selector Switch is set incorrectly.	* Demagnetize heads following head demagnetizing instructions. * Clean the heads following head cleaning instructions. * Set to CHROME position when using chromium dioxide tape, and to LOW NOISE position when using low noise tape Depress both switches simultaneously when using FeCr tape.
Previous recording will not erase.	* Erase head dirty.	* Clean heads following head cleaning instructions.
Distorted sound.	* Recording level is too high.	* Use peak level indicator as explained under CONTROLS.
Playback cannot be effected.	* Connections are incorrect. * Controls are not properly adjusted or positioned. * Pause Button is at depressed position.	* Check external amplifier controls. * Release
Recording will not take place.	* Dirty recording head. * Connections are incorrect. * Controls are not properly positioned or adjusted. * Pause Button is depressed position.	* Clean head following head cleaning instructions. * Check external source controls. * Release

Should there be a problem with your machine, write down the model and serial numbers and all pertinent data regarding warranty coverage as well as a clear description of the existing trouble and contact your nearest authorized Akai Service Station or the Service Department of Akai Company, Tokyo, Japan.

TECHNICAL DATA

Track System	4 track 2 channel stereo system
Reel Capacity	Philips type cassette tape
Tape Speed	1-7/8 ips
Wow & Flutter	Less than 0.19% (DIN 45500)
	Less than 0.07% WRMS (NAB)
Frequency Response	30 to 14,000 Hz \pm 3 dB using Low Noise tape;
	30 to 16,000 Hz \pm 3 dB using CrO ₂ tape;
	30 to 17,000 Hz \pm 3 dB using Fe-Cr tape
Distortion	Less than 1.5% (1,000 Hz "0" VU) using Low Noise tape
Signal to Noise Ratio	Better than 50 dB (measured via tape with peak recording level of + 3 VU)
	Dolby Switch ON: Improves up to 10 dB above 5 KHz
Heads	(2): One GX Recording/Playback head, one Erase head.
Motor	(1): 4-pole induction motor
F.Fwd. and Rewind Time	65 sec. using a C-60 Cassette tape
Output Jacks	Line (2): 0.775V ("0" VU). Required load impedance: more than 20 K ohms
	Phone (1): 30 mV/8 ohms
	Speaker (2): (Model GXC-39 only): 12W total music power
	4.5W \times 2, 8 ohms continuous output power
Input Jacks	Microphone (2): 0.3 mV/ Required microphone impedance: 600 ohms.
	Line (2): 50 mV/430 K ohms
Din Jack	0.55V/3 mV
Semi-Conductors.....	GXC-39: Transistors 44, Diodes 27, FETs 2
	GXC-39D: Transistors 36, Diodes 23, FETs 2
Power Requirements	U.S.A. and Canada Models: 120V, 60 Hz only
	CEE Models: 220V, 50 Hz only
	Other Models: 110 to 120V/220 to 240V, 50/60 Hz (Switchable)
Dimensions	440(W) \times 116(H) \times 229(D) mm
	(17.3" \times 4.6" \times 9")
Weight.....	GXC-39: 6.3 kg (13.9 lbs);
	GXC-39D: 6 kg (13.2 lbs)

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



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TELEPHONE:(213) 537-3830

TELEX: 67-7494

STANDARD ACCESSORIES

Connection Cord	1
Operator's Manual	1



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