

GX-365D

PROFESSIONAL STEREO TAPE DECK

GLASS & X'TAL FERRITE HEAD
3 MOTORS, 3 HEADS

OPERATOR'S MANUAL



AKAI

MANUFACTURED & DISTRIBUTED BY AKAI ELECTRIC CO., LTD./AKAI TRADING CO., LTD.

1. GENERAL INFORMATION

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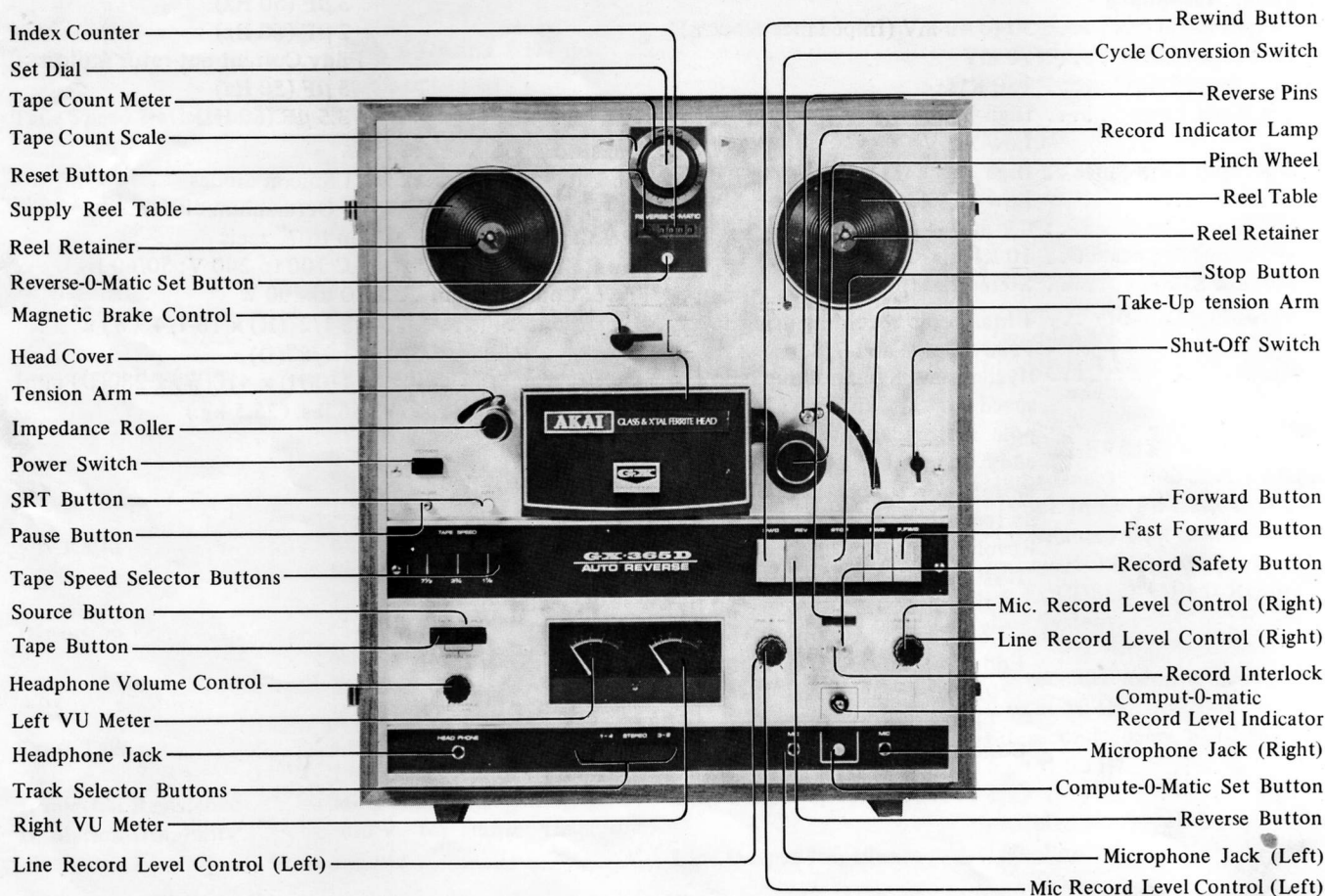
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1. SPECIFICATIONS

Tape Speed	1-7/8, 3-3/4 and 7-1/2 ips (15 ips optional)
Tape Speed Deviation	Within $\pm 0.5\%$ at 7-1/2 ips Within $\pm 1.0\%$ at 3-3/4 ips Within $\pm 1.0\%$ at 1-7/8 ips
Wow and Flutter	Less than 0.04% RMS at 7-1/2 ips Less than 0.07% RMS at 3-3/4 ips Less than 0.14% RMS at 1-7/8 ips
Frequency Response	30 to 28,000 Hz (± 3 dB) at 7-1/2 ips 30 to 23,000 Hz (± 3 dB) at 3-3/4 ips 30 to 12,000 Hz (± 3 dB) at 1-7/8 ips
S/N Ratio	Better than 55 dB at 7-1/2 ips Better than 50 dB at 3-3/4 ips Better than 50 dB at 1-7/8 ips
Distortion	(1,000 Hz "0" VU Recording) Within 1.5% at 7-1/2 ips Within 3.0% at 3-3/4 ips Within 3.0% at 1-7/8 ips
Cross Talk	Less than -70 dB (monaural) Less than -45 dB (stereo)
Insulation Resistance	More than 50 M ohms
Insulation Durability	500 V for more than one minute

Erase Ratio	Less than -70 dB for all tracks
Equalization	Correct equalization for play- back of tapes recorded to the NAB curve.
Recorded Bias	
Frequency	100 kHz
Recording Level	
Indicator	2 VU Meters
Recording Head	(Type) In-Line 4-track stereo and monaural GLASS & CRYSTAL FERRITE Head (Impedance) 15 Ω at 1 kHz
Playback Head	(Type) In-Line 4-track stereo and monaural GLASS & CRYSTAL FERRITE Head (Impedance) 3000 Ω at 1 kHz
Erase Head	(Type) In-Line 4-track stereo (Impedance) 330 Ω at 100 kHz
Recording System	In-Line 4-track stereo monau- ral FOCUSED FIELD Recor- ding System
Fast Forward and	
Rewind Time	75 seconds using a 1200 ft. tape at 50 Hz 60 seconds using a 1200 ft. tape at 60 Hz
Line Output Level	1.23 V ("0" VU) for tape recorded at "0" VU
Line Output Impedance	100 ohms

2. CONTROLS



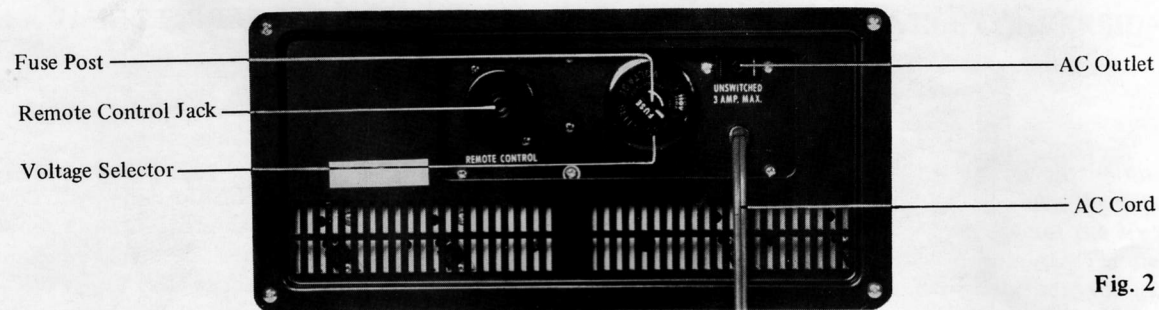


Fig. 2

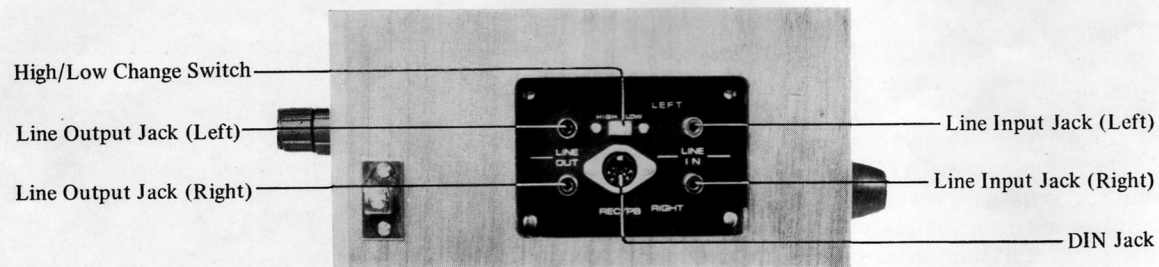
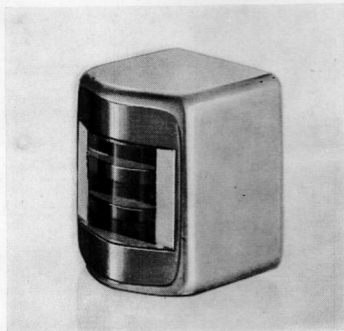


Fig. 3



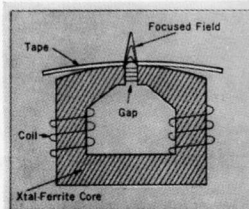
3. GLASS AND X'TAL FERRITE HEAD

Up to now in manufacturing Recording/Playback Heads, permalloy has been used for making the core and metallic foil has been used for making the gap.

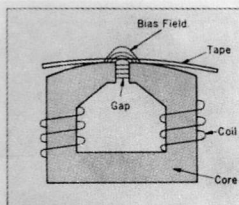
However, for the Model GX-365D, AKAI has developed a GLASS AND X'TAL (crystal) FERRITE HEAD.

The core is made of pure crystal ferrite in addition to which the inner circumference of the head shield (including the core and gap) is mounted and set in glass.

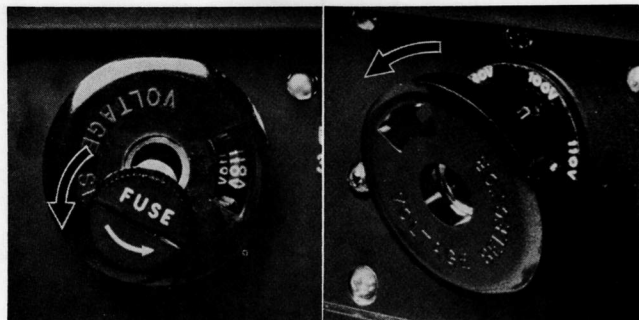
As a result, the head is not only "Dust Free" and "Wear Free" but produces a "Focused Field" (the magnetic field is concentrated into a narrow oblong radius) permitting recording without the weakening or erasing of the signal by the bias current. High frequency signals can be recorded and regenerated as original sound without distortion.



GX-Head

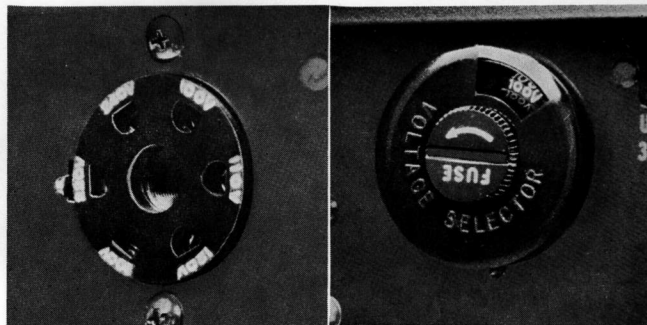


Heads up to present



A

B



C

D

Fig. 4

4. VOLTAGE AND CYCLE CONVERSION

VOLTAGE

Model GX-365D is operable anywhere in the world. With the built-in step-down power transformer, the operator can easily readjust the recorder to any one of the six stages of power voltage from 100 to 240 volts AC. The operator is requested to check the previously set voltage before operation. If another voltage is required, readjustment can be made as follows :

- (1) Remove the FUSE POST as shown in Fig. (A). Remove VOLTAGE SELECTOR PLUG and re-insert to standard area voltage.
- (2) The VOLTAGE SELECTOR as shown in Figs. (B), (C), and (D) is a rotatable plug-in type offering six selections (100/110/120/200/220/240).
- (3) Change the fuse according to voltage.

Fuse : 100 V-120 V 3 A ; 200 V-240 V 2 A

CAUTION : Disconnect power plug from AC Outlet before readjusting voltage. To maintain optimum performance and to prolong the life of your machine, it is important that the line voltage be held within 10 percent deviation of standard voltage.

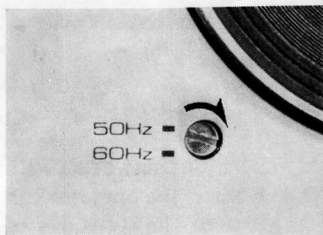


Fig. 5

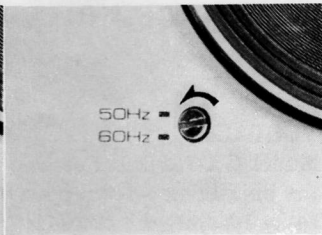


Fig. 6

CYCLES

Correct tape speed cannot be obtained if the CYCLE CONVERSION SWITCH is not properly positioned. The CYCLE CONVERSION SWITCH is located near the lower part of Take-Up Reel Table on the face panel. With a screw driver, rotate the CYCLE CONVERSION SWITCH either to 50 Hz or 60 Hz position as shown in the figures.

CAUTION : Do not attempt to rotate the CYCLE CONVERSION SWITCH when the motor is not running.

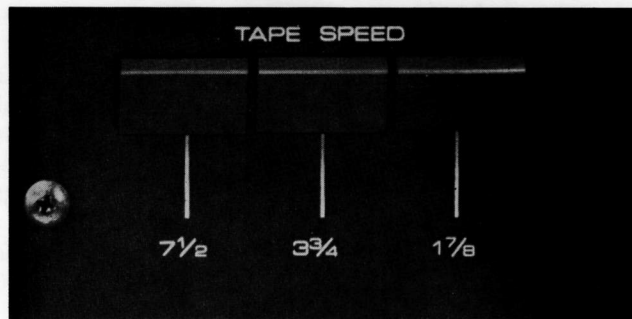


Fig. 7

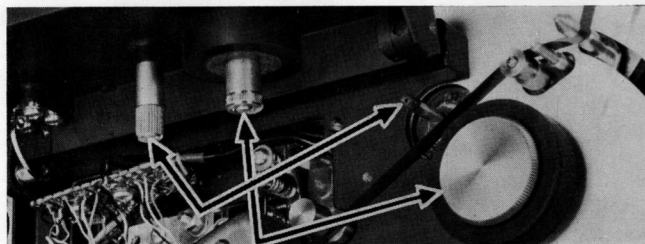


Fig. 7a

RECORDING TIME

TAPE Length	TAPE SPEED			
	4-track Stereo		4-track Mono	
	3-3/4ips	7-1/2	3-3/4	7-1/2
1200ft	2HRS	1	4	2
1800	3	1.5	6	3
2400	4	2	8	4

5. TAPE SPEED SELECTION

TAPE SPEED

TAPE SPEED INCHES PER SECOND	POSITION OF SPEED CHANGE SWITCH		CAPSTAN BUSHING		USE
	LOW	HIGH	YES	NO	
1-7/8	☐			☐	Long time recording of Jazz, Speech, Lecture, etc.
3-3/4	☐		☐		High fidelity recording of Popular or Classical music, etc.
7-1/2		☐	☐		Recording music with max. clarity Playback of pre-recorded tape.

The GX-365D operates on 4 tape speeds, 15, 7-1/2, 3-3/4 and 1-7/8 ips.

1-7/8 ips 1-7/8 ips tape speed is obtained by depressing the "1-7/8" TAPE SPEED SELECTOR BUTTON.

3-3/4 ips 3-3/4 ips tape speed is obtained by depressing the "3-3/4" TAPE SPEED SELECTOR BUTTON.

7-1/2 ips 7-1/2 ips tape speed is obtained by depressing the "7-1/2" TAPE SPEED SELECTOR BUTTON.

15 ips 15 ips speed is obtained by replacing the PINCH WHEEL and CAPSTAN with 15 ips PINCH WHEEL and CAPSTAN (15 ips KIT – optional accessory). (See Fig. 7a)

After replacement of pinch wheel and capstan, depress "7-1/2" TAPE SPEED SELECTOR BUTTON.

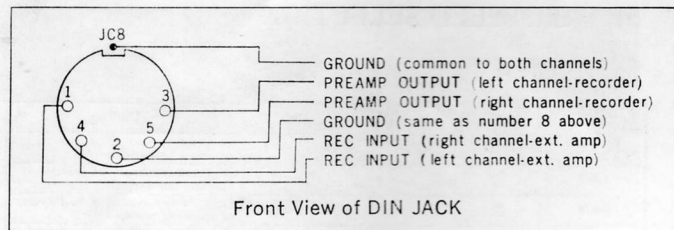


Fig. 8

6. DIN JACK

A DIN JACK is provided at the right side of the recorder for inter-connecting Model GX-365D with an external stereo amplifier which has the same connection jack. This system permits easy recording and playback as the complexity of connecting or disconnecting 4 separate plugs from the side panel of the unit is not necessary.

If your amplifier is not equipped with a DIN Jack and the use of this one connection system is desired, AKAI DR-110 connection cord (optional accessory) can be used.

NOTE : When the output level of the external amplifier is more than 50 mV, set HIGH/LOW SWITCH to "HIGH" When output level is more than 5 mV, set HIGH/LOW SWITCH to "LOW".

Thickness of tape	Brake Control
Less than 1/2 mil	1/2 mil
1/2 – 1 mil	1 mil
more than 1 mil	STANDARD

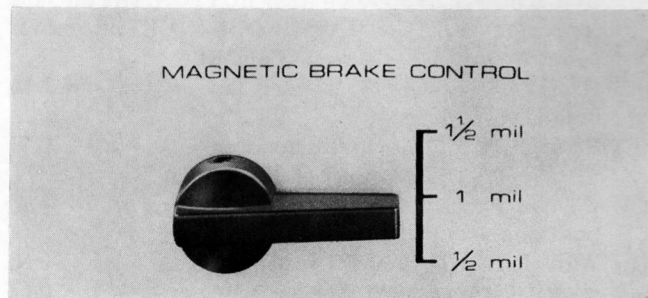


Fig. 9

7. MAGNETIC BRAKE

Conventional tape recorders often employ a rubber braking system. However, worn-out rubber sections sometimes cause inefficiency in this system. AKAI's Magnetic Braking System has been developed for the elimination of this weak point. This wear proof system utilizes electrical force with the aid of a rubber auxiliary and permits a smooth "instant" stop.

NOTE : Set the BRAKE CONTROL to "1/2 mil", "1 mil" or "STANDARD" as required.

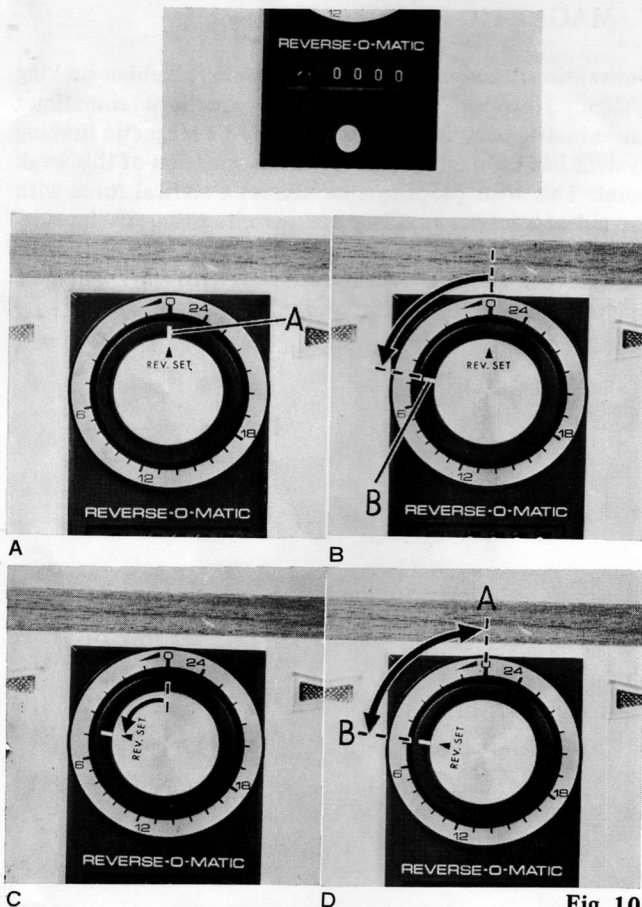


Fig. 10

8. AUTOMATIC REVERSE (REVERSE-O-MATIC)

Automatic reverse is used for playback only. When the meter is used for automatic reverse, the GX-365D will provide continuous playback between any two given points on a tape.

- Align the TAPE COUNT METER and SET DIAL with "0" on the TAPE COUNT SCALE (Fig. A).
- Advance tape by operating either the FORWARD BUTTON or FAST FORWARD BUTTON. (As the tape feeds forward, The TAPE COUNT METER moves counter-clockwise as shown in Fig. B). Depress STOP BUTTON when tape has advanced to desired point B.
- Rotate SET DIAL until it is aligned with TAPE COUNT METER as shown in Fig. C.
- Depress REVERSE-O-MATIC SET BUTTON to "In" position.
- With REWIND BUTTON or REVERSE BUTTON, rewind tape back to starting point A. (As the tape rewinds, the TAPE COUNT METER moves clockwise.)
- When TAPE COUNT METER reaches starting point A ("0" on TAPE COUNT SCALE), depress FORWARD BUTTON.

The GX-365D will now reverse itself automatically, providing continuous playback between points A and B until the Stop Button is depressed.

NOTE : In Step (B), if FORWARD BUTTON is used to advance the tape, it is not necessary to depress the STOP BUTTON. Continue with Steps C,D,E, and F.

An alternate procedure for automatic reverse is to let the

graduated TAPE COUNT SCALE represent 2,400 feet of tape (the maximum length of tape which can be reversed using the TAPE COUNT METER). The intervals between numbers represent 100 feet.

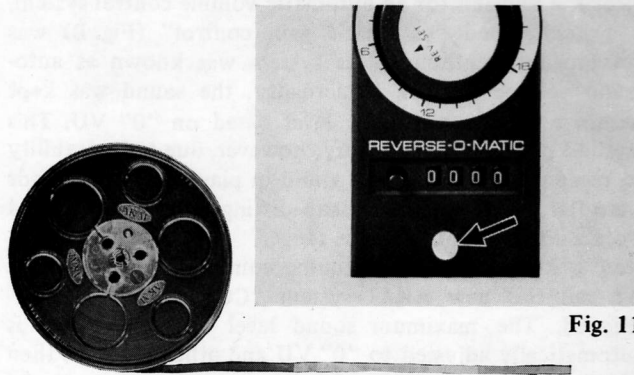


Fig. 11

9. AUTOMATIC REVERSE (METALLIC SENSING TAPE)

Automatic Reverse with metallic sensing tape is used for playback only. The sensing tape method is convenient if the tape is too long to be measured by the TAPE COUNT METER.

- (A) Set REVERSE-O-MATIC SET BUTTON to "Out" position.
- (B) Apply a two inch piece of metallic sensing tape to the end of the tape or at desired reverse point. Reversal will occur when the metallic sensing tape contacts the Reverse Pins located in tape path.

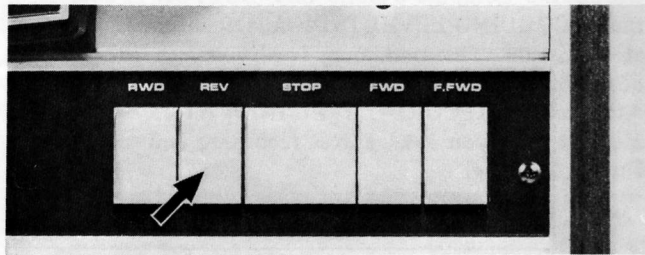


Fig. 12

10. MANUAL REVERSE

If Reverse-O-Matic or Sensing Tape Reverse is not desired, manual reverse can be effected by depressing the MANUAL REVERSE BUTTON of control panel.

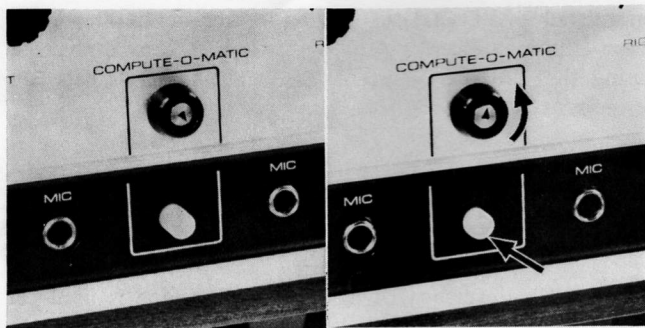
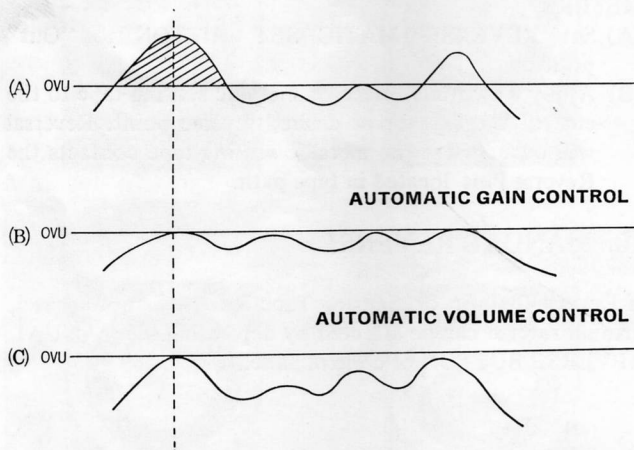


Fig. 13



11. COMPUTE -O-MATIC

In the past, when making a recording, in order to obtain an optimum recording level, the operator had to adjust the Volume Controls by hand while viewing the VU Meters.

To avoid such troublesome manual adjustments and to meet the demand for an automatic volume control system, a system called "automatic gain control" (Fig. B) was developed. Even though this system was known as automatic volume control, in actuality, the sound was kept within a certain mid-range level based on "0" VU. This method proved unsatisfactory, however, due to its inability to regenerate true musical sound in playback. The sounds were flat and it was difficult to distinguish voices recorded from a distance or from close range.

Now a REAL automatic volume control has materialized. We call this new AKAI system "COMPUTE-O-MATIC" (Fig. C). The maximum sound level to be recorded is automatically adjusted to "0" VU and other levels are then adjusted proportionately. In other words, when Model GX-365D's Compute-O-Matic SET BUTTON is depressed, the RECORDING LEVEL INDICATOR automatically stops at maximum. This maximum level becomes "0" VU and other sound levels are proportionately adjusted.

After setting RECORD LEVEL INDICATOR, it is recommended that you take a test recording before beginning actual recording.

12. OPERATING PRECAUTIONS

IMPORTANT : READ THE OPERATING INSTRUCTIONS CAREFULLY BEFORE OPERATING YOUR RECORDER.

The symptoms listed below do not necessarily indicate a malfunction of your tape recorder. If your machine exhibits any of these symptoms, take the indicated action.

(A) Loss of sensitivity or tone quality may be due to :

Reversed tape—place the dull side of the tape toward the heads.

Improper voltage—check voltage input and adjustment.

(B) Irregularity of the tape transport may be due to :

Dirty tape surface—use a clean tape.

Bent take up reel—straighten the take up reel.

(C) If your machine will not record, check to see that the following are in the correct position :

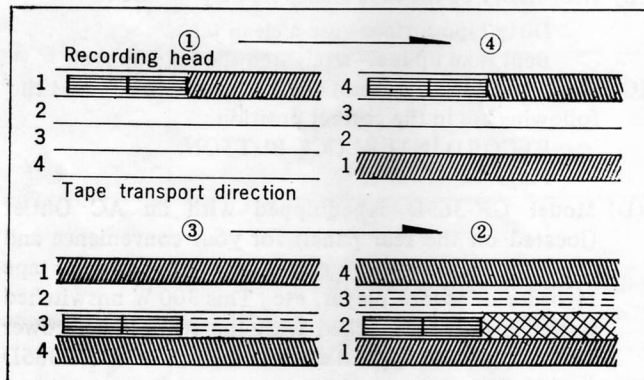
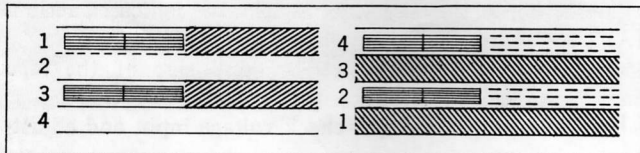
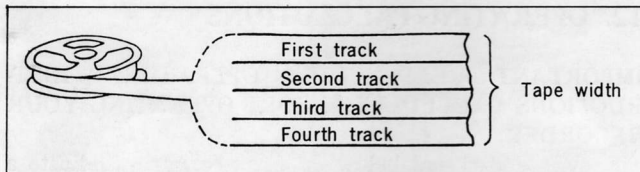
RECORD INTERLOCK BUTTON.

Plugs.

(D) Model GX-365D is equipped with an AC Outlet (located on the rear panel) for your convenience and can be used as an extra power supply for another tape recorder or record player, etc.. This 300 W unswitched outlet is not inter-locked with the front panel power switch. (Power is applied even with the Model GX-365D turned Off).

Do not plug in an appliance of more than 300 W to this Outlet.

If any problem arises, take your machine to the authorized AKAI agent in your area or to the Service Department of the AKAI Company in Tokyo, Japan.



II. OPERATING INSTRUCTIONS

1. 4-TRACK RECORDING/PLAYBACK SYSTEM

The monaural recording/playback track sequence should be 1-4-3-2.

(A) Depress TRACK SELECTOR BUTTON "1-4".

The first monaural recording/playback takes place on track 1, and the second on track 4 after the tape reels have been inverted.

(B) Invert reels.

(C) Depress TRACK SELECTOR BUTTON "3-2".

The third monaural recording/playback takes place on track 3, and the fourth on track 2 after the tape reels have been inverted.

The GX-365D does not record in reverse direction. Using reverse playback, it is not necessary to turn the tape reels over. When the GX-365D begins reverse playback, the playback head is automatically shifted to the remaining tracks.



Fig. 14

2. TAPE LOADING

Place full reel of tape on SUPPLY REEL SHAFT and empty reel on TAKE-UP REEL SHAFT.

Thread the tape as illustrated by the dotted line in Fig. 15. Lock reels into place with REEL RETAINERS provided on reel shafts.

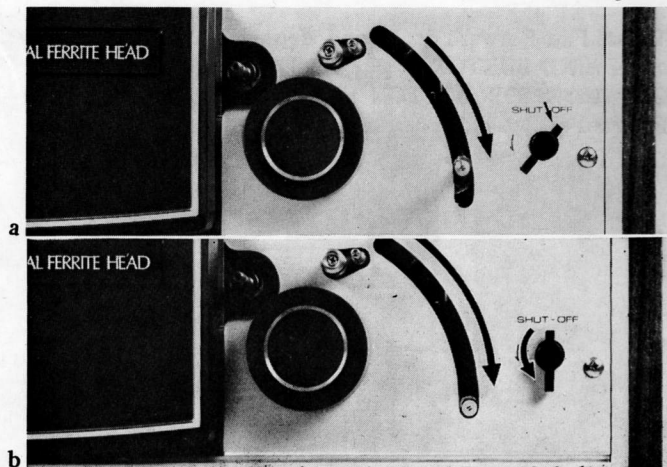


Fig. 15

3. AUTOMATIC STOP/SHUT-OFF

One of the exclusive features of the Model GX-365D is the Automatic Stop/Shut-Off function of the unit. Thread the Tape through the TAKE UP TENSION ARM as described in Tape Loading procedure.

To automatically stop reel movement in case the tape is accidentally broken or comes to the end, set SHUT-OFF SWITCH to position shown in Fig. A.

To automatically shut off the power of the unit in case the tape is accidentally broken or comes to the end, set SHUT-OFF SWITCH to "Shut-Off" position (Fig. B).

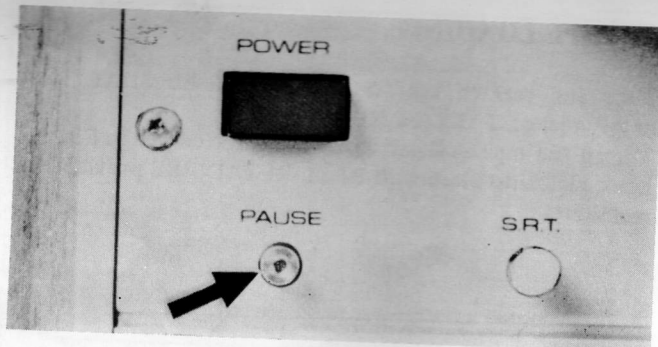


Fig. 16

4. PAUSE CONTROL

To momentarily stop the tape during recording or playback, depress the PAUSE BUTTON (Fig. 16).

Use of the PAUSE BUTTON permits adjustment and balance of recording level (when Compute-0-Matic is not being used). Adjust volume controls while observing VU Meters.

This control is especially convenient for editing during recording. Depress PAUSE BUTTON when certain portions of the program is not desired.

Note that no annoying "click" is impressed on the tape when the PAUSE BUTTON is released.

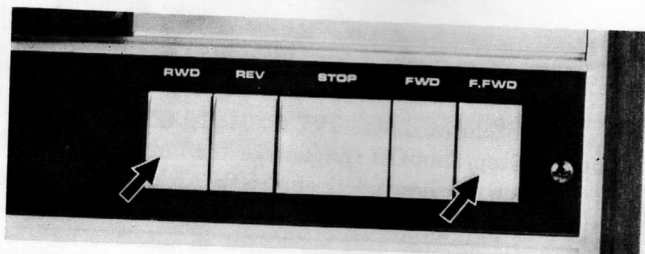


Fig. 17

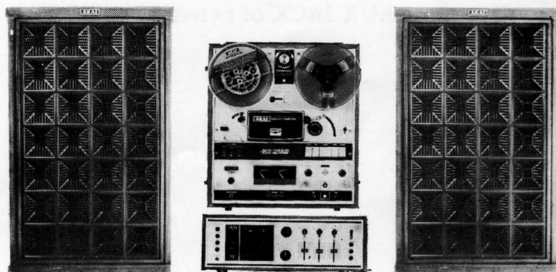
5. FAST FORWARD AND REWIND

To use Fast Forward or Rewind, depress FAST FORWARD or REWIND BUTTON.

Only the STOP BUTTON should be used to stop Fast Forward or Rewind.



Fig. 18



6. PLAYBACK

STEREO

Connect power cord and load a tape.

- (A) Turn on POWER SWITCH.
- (B) Depress TRACK SELECTOR "STEREO" BUTTON.
- (C) Depress 7-1/2, 3-3/4, or 1-7/8 SPEED SELECTOR BUTTON as required.
- (D) Depress "TAPE" BUTTON.

The X-365D does not include a power amplifier or loud speakers. It, therefore, is necessary to provide an external amplifier and speakers for playback.

- (E) Connect both LINE OUTPUT JACKS to TAPE INPUT JACKS or AUX JACKS of external stereo amplifier and connect two external speakers to the amplifier.

Important : The output level of Model GX-365D's output jack is 1.23 V maximum. Check your amplifier before operation to determine which input terminals should be used.

- (F) Depress FORWARD BUTTON.
- (G) Adjust Volume Controls, etc. of external amplifier.



Fig. 19

MONAURAL

For monaural playback, substitute the following steps (B) and (E) of stereo procedure and follow the rest of the stereo procedure.

Playback on Tracks 1 and 4

Only the left channel amplifier is used for monaural playback on tracks 1 and 4.

(B) Depress TRACK SELECTOR BUTTON "1-4". (At end of playback on track 1, invert reels for playback on track 4).

(E) Connect the LEFT LINE OUTPUT to LEFT TAPE INPUT or AUX JACK of external amplifier.

Playback on Tracks 3 and 2

Only the left channel amplifier is used for monaural playback on tracks 3 and 2.

(B) Depress TRACK SELECTOR BUTTON "3-2". (At end of playback on track 3, invert reels for playback on track 2).

(E) Connect the LEFT LINE OUTPUT to LEFT TAPE INPUT or AUX JACK of external amplifier.



Fig. 20

7. RECORDING

STEREO

Connect power cord and load a tape.

- (A) Turn on POWER SWITCH
- (B) Depress TRACK SELECTOR "STEREO" BUTTON.
- (C) Depress 7-1/2, 3-3/4, or 1-7/8 TAPE SPEED SELECTOR BUTTON as required.
- (D) Set INDEX COUNTER to "0000".
This Index Counter provides an easy reference for locating a position on the tape.
- (E) Insert Microphone Plugs into MICROPHONE JACKS.
(Maintain a distance of at least 7 ft. between microphones).
- (F) Depress either the "SOURCE" or "TAPE" BUTTON.
If the TAPE BUTTON is used, the recorded signal is monitored as the tape passes the playback head.
If the SOURCE BUTTON is used, the program source can be monitored as it is being recorded.
- (G) Depress COMPUTE-0-MATIC SET BUTTON.
- (H) Depress FORWARD BUTTON.
- (I) Depress RECORD SAFETY BUTTON and set RECORD INTERLOCK (this interlock is provided to prevent inadvertent erasure of recorded tapes. Turn clockwise until the red mark is aligned with "REC").
- (J) Check to make sure the RECORD INDICATOR LAMP is on.
(If lamp is not on the GX-365D will not operate).
- (K) Depress STOP BUTTON to stop recording.



Fig. 21

NOTE : For manual recording, adjust **RECORDING LEVEL CONTROLS** while observing **VU Meters**. Normal recording should not exceed "0" VU.

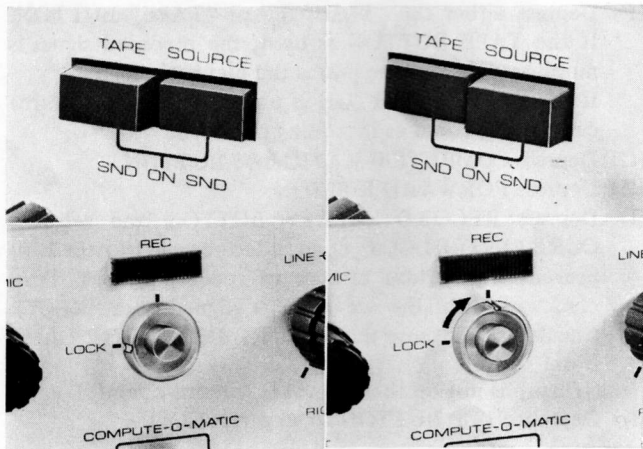


Fig. 22

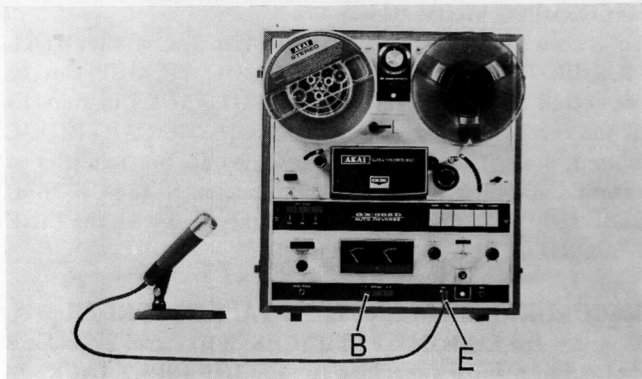


Fig. 23

MONAURAL

For monaural recording, substitute the following steps for steps (B) and (E) of recording procedure and add step (L). Recording on Tracks 1 and 4

Only the left channel amplifier is used for monaural recording on tracks 1 and 4.

(B) Depress TRACK SELECTOR BUTTON "1-4".

(E) Insert Microphone Plug into LEFT MICROPHONE JACK.

(L) Invert reels to record on Track 4.

Recording on Tracks 3 and 2

Only the left channel amplifier is used for monaural recording on tracks 3 and 2.

(B) Depress TRACK SELECTOR BUTTON "3-2".

(E) Insert Microphone Plug into LEFT MICROPHONE JACK.

(L) Invert reels to record on Track 2.

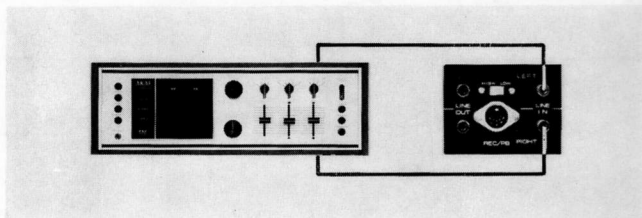


Fig. 24

RECORDING FROM AN EXTERNAL AMPLIFIER

If an external amplifier or tuner-amplifier combination is used, connect the TAPE OUTPUT leads of the external amplifier to the LINE INPUT JACKS in step (E) of the recording procedure. VU level is controlled with the LINE RECORD LEVEL CONTROLS. The GX-365D will record any source that can be selected on the external amplifier.

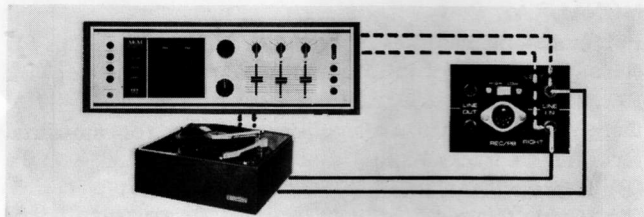


Fig. 25

RECORDING FROM DISCS

To record from a stereo or monaural disc, a CRYSTAL PICK-UP (0.5-1 volt) or a CERAMIC PICK-UP can be connected directly to the LINE INPUT JACKS in step (E) of the recording procedure. If a MAGNETIC CARTRIDGE is used, it must be connected to a separate pre-amplifier or external amplifier before being connected to the GX-365D LINE INPUT JACKS. VU level is controlled with the LINE RECORD LEVEL CONTROLS.

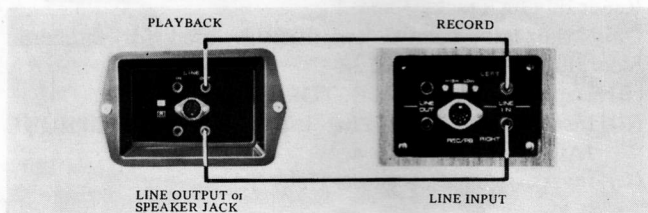
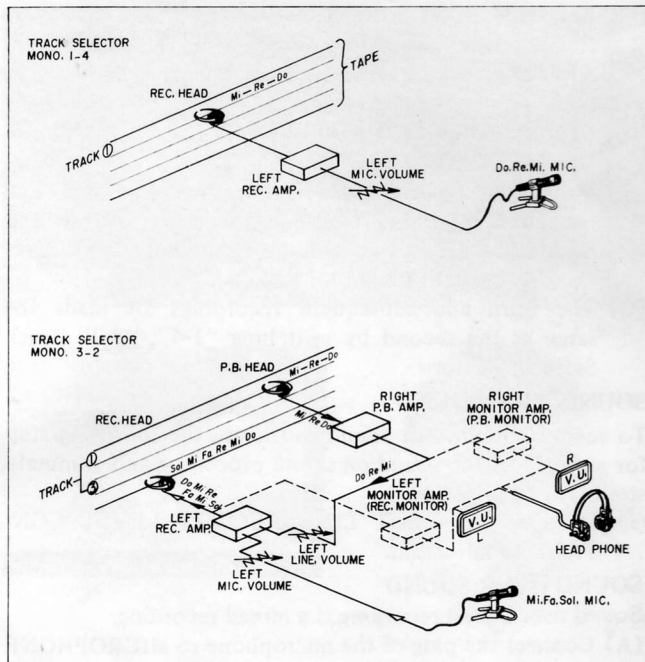


Fig. 26

RECORDING FROM ANOTHER TAPE RECORDER

Connect the LINE OUTPUT JACKS or External SPEAKER JACKS of playback machine to the LINE INPUT JACKS of GX-365D in step (E) of recording procedure. VU level is controlled with the LINE RECORD LEVEL CONTROLS.



SOUND ON SOUND

First Recording

- (A) Confirm that there are no connections to the LINE INPUT JACKS.
- (B) Depress TRACK SELECTOR "1-4" for recording on track 1.
- (C) Insert microphone plug into LEFT MICROPHONE JACK.
- (D) Depress the "TAPE" BUTTON or "SOURCE" BUTTON.
- (E) Depress the FORWARD BUTTON and RECORD INTERLOCK BUTTON for making the first recording, i.e. Do-Re-Mi.
- (F) Adjust the LEFT MICROPHONE RECORD LEVEL CONTROL to the proper level while observing the VU meter.
- (G) When the first recording is complete, rewind the tape to the starting position.

Second Recording

- (H) Confirm that the "TAPE" BUTTON and the "SOURCE" BUTTON are both at IN position.
- (I) Depress "3-2" TRACK SELECTOR BUTTON for recording on track 3 while listening to track 1.
- (J) Increase the LEFT LINE RECORD LEVEL CONTROL to approximately maximum.
- (K) Connect the stereo headphones to monitor the first recording on the left channel (track 1).
- (L) Depress FORWARD BUTTON and RECORDING INTERLOCK BUTTON.

The first recording will be heard through the headphones.

- (M) Reset the LEFT LINE RECORD LEVEL CONTROL to the proper level while observing the left VU meter.
- (N) After the reset, rewind the tape again to the starting point.

Depress FORWARD BUTTON and RECORD INTER-LOCK BUTTON.

The second recording, Mi-Fa-Sol, is made on track 3 as the first recording, Do-Re-Mi, is monitored in the headphones. The two will be completely merged on track 3, i.e., (Do-Re-Mi, Mi-Fa-Sol).

- (O) The third and subsequent recordings are made the same as the second by switching "1-4", "3-2" Track Selector Buttons.

SOUND WITH SOUND

To record sound with sound substitute the following step for step (J) of the sound on sound procedure and eliminate step (M).

- (J) Decrease the LEFT LINE RECORD LEVEL CONTROL to minimum.

SOUND OVER SOUND

Sound over Sound recording is a mixed recording.

- (A) Connect the plug of the microphone to MICROPHONE JACK and the output terminal of external amplifier or record player to LINE INPUT JACK.
- (B) Microphone volume level can be adjusted by adjusting the MICROPHONE RECORD LEVEL CONTROL, and line volume level can be adjusted by adjusting the LINE RECORD LEVEL CONTROL.



Fig. 27



Fig. 28

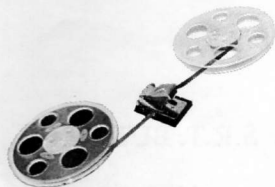
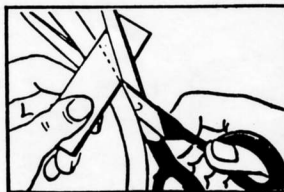
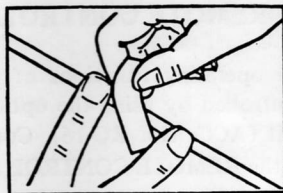
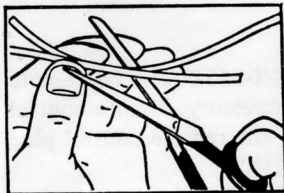
8. REMOTE CONTROL

All operating functions of the GX-365D can be remote controlled by using the optional accessory, remote control unit (ACC. No. RC-16). Connect the remote control plug to the REMOTE CONTROL SOCKET.

9. S.R.T. BUTTON

Depress this S.R.T. BUTTON only when using AKAI's new SUPER RANGE TAPE (optional accessory).

This is a newly developed Low Noise Super Frequency Range tape and is highly recommended for superior performance.



10. TAPE SPLICING AND EDITING

Cut tape diagonally with an overlap so that the ends are lined up (cutting tape on diagonal eliminates detection of the splice in recording).

Cover aligned ends with **SPLICING TAPE**. Press firmly, exerting pressure to secure ends evenly. Trim off excess splicing tape (Cut into recording tape very slightly as illustrated by dotted lines. This eliminates the possibility of a sticky splice). Splicing of tape using scissors requires skillful work. With our specially designed **PORTABLE SPLICER**, splicing can be done very smoothly.

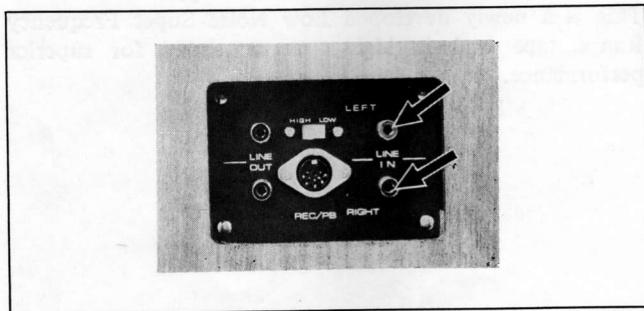


Fig. 29

11. TAPE ERASING

Any signal information previously recorded on a tape will be erased automatically as a new recording is made on the same tape. For erasing only, thread the tape, and place in normal record position. There should be no plugs connected to recorder's input jacks. A **BULK TAPE ERASER** is recommended for quick and complete erasure.



Fig. 30

12. MONITORING

Step (F) of the recording procedure describes monitoring. If the stereo headphone is used for monitoring, connect headphone plug to **STEREO HEADPHONE JACK**. The volume is controlled with **VOLUME CONTROLS**.

13. HEAD DEMAGNETIZATION

Normally the steel pole pieces which form a part of the recording and playback heads become slightly magnetized. The effect of slight head magnetization is that it partially erases the tape, especially at high frequencies. Generally, this condition can be detected by the loss of high frequency response which cannot be corrected through head alignment. Severe magnetization (which may be caused by using magnetized tools in the vicinity of the heads) will result in noise or considerable distortion in addition to the loss of high frequency response. Although Model GX-365D already has a built-in Head Demagnetizing Circuit, it is recommended that head demagnetization be performed periodically. This can be accomplished by touching the head lightly with the demagnetizer and making several small circular motions over all heads surface areas as well as the head housing. **NOTE :** To avoid scratching the head surface, we suggest that you cover both prongs of the head demagnetizer with a sort of masking tape.

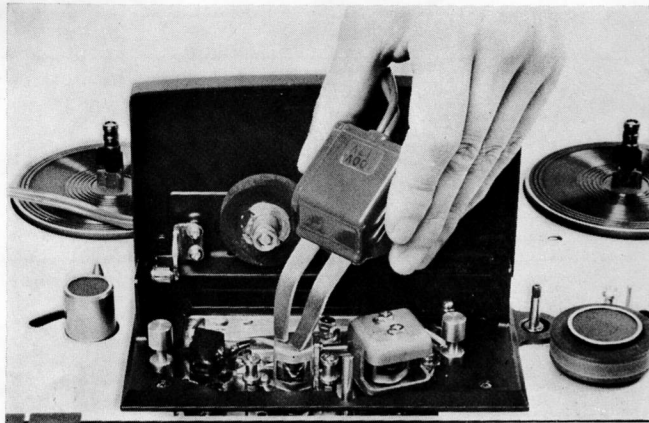


Fig. 31

14. LUBRICATION

Although the motor of Model GX-365D is sufficiently oiled for prolonged use, for maximum service and optimum performance, the motor should be re-lubricated at each 1000 hours of use. For proper lubrication, please refer to your local authorized Akai Agent.

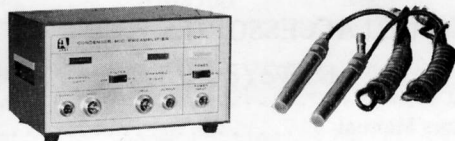
III. ACCESSORIES

OPTIONAL ACCESSORIES

Remote Control RC-16



Condenser Microphones CM-15



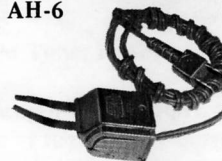
Dynamic Microphones DM-13



Tape Splicer AS-3



Head Demagnetizer AH-6



Tape Eraser ATE-7



Stereo Headphones ASE-9S





AKAI Magnetic Tape & Reel



AKAI Magnetic Tape

AKAI Connecting Cords

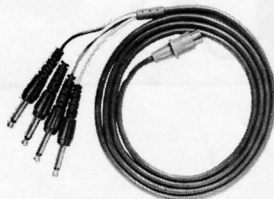
D-100



DR-110



DM-120



RM-130



AKAI S.R.T (Super Range Tape)

STANDARD ACCESSORIES

7" Metallic Reel	1
Sensing Tape	1
Operators Manual	1

C52706077012A0103.6

An Incomparable Combination



SW-180

AA-8500

SW-180

STEREOPHONIC SPEAKER SYSTEM

SW-180

Speakers 12" Woofer (LTP Edge)
 3-1/2" x 11-1/2" Midrange (Horn Type)
 Two 2" Tweeters (Horn Type)

Impedance 8 ohms

Max. Power Input .. 60 W

Frequency Response 23 to 22,000 Hz

Dimensions 30-5/8" x 18-3/4" x 15-3/4"
 (777 x 475 x 400 mm)

Weight 70.4 lbs. (32 kg)

SOLID STATE FM/AM MULTIPLEX STEREO TUNER AMPLIFIER

AA-8500

240 W Music Power

FET and IC for High FM Tuner Performance

Audio Mute Control

FM and AM Signal Strength Meters, FM and AM Dials, and
 FM AFC (Automatic Frequency Control) for perfect
 tuning.

Can separate pre and main amplifier (Use of multi-channel
 amplifiers possible)

Speaker Selector (A System, B System, A + B System, and
 "OFF")

Stereo Headphone & DIN

JACKS

Amplifier Section :

Frequency Response 20 to 50,000 Hz

Tuner Section :

Frequency Range ... FM : 88 to 108 MHz

AM : 535 to 1605 kHz

Power Consumption .. 350 W

Weight 35.3 lbs. (16 kg)

Dimensions 19-1/4"(W) x 14-1/2"(D) x 7"(H)
 (487 x 346 x 165 mm)



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