

# 1710W 1710L

**OPERATOR'S  
MANUAL**

**AKAI®**

FOUR TRACK  
STEREOPHONIC  
MONOPHONIC  
TAPE RECORDER

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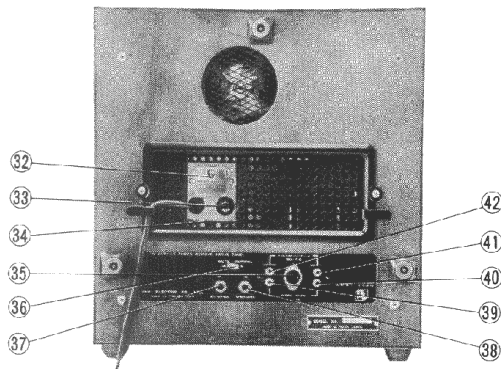
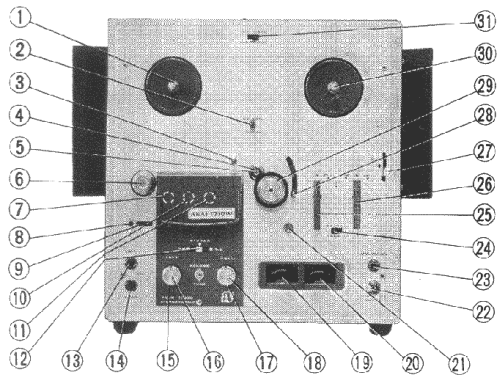
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## 1. SPECIFICATIONS

## AKAI 1710W GENERAL INFORMATION

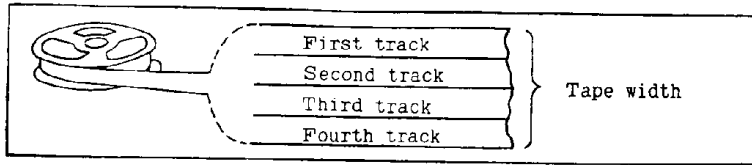
<b>Tape Speed</b>	: 3 speeds ..... 1-7/8, 3-3/4, 7-1/2 and 15 ips optional
<b>Wow and Flutter</b>	: Less than 0.12% RMS
<b>Frequency Response</b>	: 40 to 18,000 cps at 7-1/2 ips (50 to 15,000 cps $\pm$ 3 db at 7-1/2 ips) 40 to 14,000 cps at 3-3/4 ips
<b>Music Power</b>	: 4 watts at maximum on each channel, total 8 watts.
<b>S/N Ratio</b>	: Better than 50 db
<b>Equalization</b>	: Correct equalization for playback of tapes recorded to the NARTB curve.
<b>Recording Level Indicator</b>	: VU meter $\times$ 2
<b>Recording System</b>	: 4-track stereo/monaural system
<b>Fast Forward and Rewind Time</b>	: 150 seconds using 1,200 feet tape at 50 cycles. 120 seconds at 60 cycles.
<b>Recording Capacity</b>	: 8 hours monaural recording at 1-7/8 ips (1,200 feet recording tape). 4 hours stereo recording at 1-7/8 ips
<b>Motor</b>	: 2-speed induction motor
<b>Speaker</b>	: 5 $\times$ 7 inches speaker $\times$ 2
<b>Transistor</b>	: Transistor $\times$ 4
<b>Tube</b>	: Tube $\times$ 5
<b>Power Supply</b>	: AC 100 to 240 V, 50/60 cycles
<b>Power Consumption</b>	: 80 VA
<b>Dimensions</b>	: 14"H $\times$ 13-1/2"W $\times$ 7-1/2"D (360H $\times$ 345W $\times$ 190D mm)
<b>Weight</b>	: 33 lbs (15 kg)

## 2. CONTROL LOCATION



- |                               |                                  |
|-------------------------------|----------------------------------|
| ① Supply Reel Shaft           | ②② Power Switch                  |
| ② Cycle Conversion Switch (A) | ②③ Stereo Headphone Jack         |
| ③ Capstan Storage Post        | ②④ Automatic Shut-off Switch     |
| ④ Capstan                     | ②⑤ Record/Playback Knob          |
| ⑤ Capstan Shaft               | ②⑥ Fast Forward/Rewind Knob      |
| ⑥ Tape Guide                  | ②⑦ Pause Lever                   |
| ⑦ Tape Cleaner                | ②⑧ Automatic Shut-off Lever      |
| ⑧ Reset Button                | ②⑨ Pinch Wheel                   |
| ⑨ Index Counter               | ②⑩ Take-up Reel Shaft            |
| ⑩ Erase Head                  | ②⑪ Speed Change Switch           |
| ⑪ Record/Playback Head        | ②⑫ Voltage Selector Switch       |
| ⑫ Track Selector              | ②⑬ Fuse Post                     |
| ⑬ Microphone Jack (Left)      | ②⑭ Cycle Conversion Switch (B)   |
| ⑭ Microphone Jack (Right)     | ②⑮ DIN Jack                      |
| ⑮ Tone Control (Left)         | ②⑯ Speaker Switch                |
| ⑯ Volume Control (Left)       | ②⑰ External Speaker Jack (Right) |
| ⑰ Tone Control (Right)        | ②⑱ External Speaker Jack (Left)  |
| ⑱ Volume Control (Right)      | ②⑲ Line Input Jack (Right)       |
| ⑲ VU Meter (Left)             | ②⑳ Line Input Jack (Left)        |
| ⑳ VU Meter (Right)            | ②㉑ Line Output Jack (Left)       |
| ㉑ Record Safety Button        | ②㉒ Line Output Jack (Right)      |

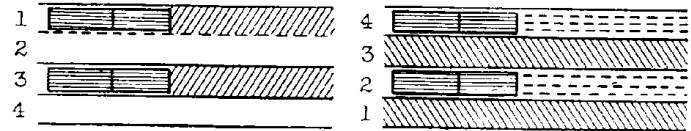
The Model 1710W employs a most advanced 4-track system that can be used for either stereo or monaural recording and playback.



The required track or tracks are selected by the TRACK SELECTOR ⑫.

#### (A) 4-Track Stereo Recording/Playback

Stereophonic recording/playback requires the simultaneous use of two tracks. Set the TRACK SELECTOR ⑫ to "STEREO". The first stereophonic recording/playback takes place on Tracks No. 1 and 3, and the second on Tracks No. 2 and 4 after the tape reels have been turned over.



#### (B) 4-Track Monaural Recording/Playback

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

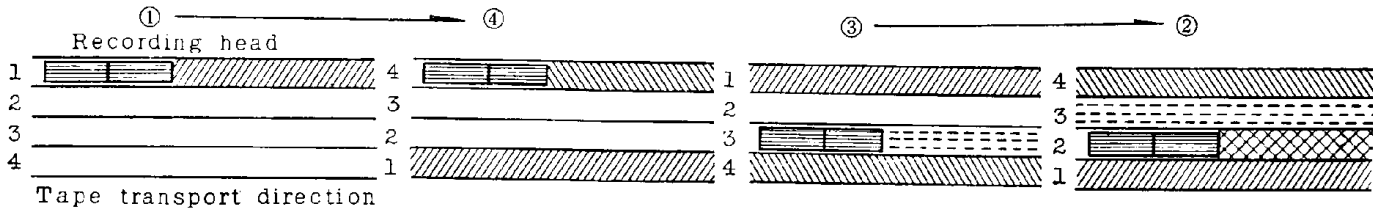
(a) Set the TRACK SELECTOR ⑪ to "1-4".

The first monaural recording/playback takes place on Track No. 1, and the second on Track No. 4, after the tape reels have been turned over.

(b) Turn the tape reels over.

(c) Set the TRACK SELECTOR ⑫ to "3-2".

The third monaural recording/playback takes place on Track No. 3, and the fourth on Track No. 2 after the tape reels have been turned over.



**IMPORTANT: READ THE FOLLOWING INSTRUCTIONS CAREFULLY BEFORE OPERATING YOUR RECORDER:**

- A. THE USE OF NEW TAPE WILL RESULT IN THE BEST RECORDINGS.
- B. THE SYMPTOMS LISTED BELOW DO NOT NECESSARILY INDICATE MALFUNCTION OF YOUR RECORDER. IF YOUR MACHINE EXHIBITS ANY OF THESE SYMPTOMS, TAKE THE INDICATED ACTION.

(a) Loss of sensitivity and tone quality may be due to:

- Dusty or dirty heads—clean the heads.
- 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:

- Grime adhering to the heads—clean the heads.
- Oil on the capstan—clean the capstan.
- Dirty tape surface—use a clean tape.
- Bent take-up reel—straighten the take-up reel.

(c) If your machine will not record and play, insure that the following are in correct position.

- Record/Playback knob.
- Plugs.

NOTE:

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- (a) Before operating your machine, be sure to clean the heads.
  - (b) 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.
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## 5. VOLTAGE AND CYCLE CONVERSION

### VOLTAGE

The Model 1710W is operatable anywhere in the world. With the built-in stepdown power transformer, the user can easily re-adjust the recorder to any one of the six stages of power voltage from 100 to 240 volts A.C. Generally, the recorder's input voltage is preset for the forwarding territory. The user is requested to check the previously set voltage before operation. This can be seen at the rear of the recorder. If another voltage is required, readjusting of the voltage can be accomplished in accordance with the following instruction:

- (a) Take off the cover panel by removal two mounting screws as shown in Fig. 1 (a). Then pull out the VOLTAGE SELECTOR SWITCH (b) gently and reset the knob so that desired voltage will appear on the panel.
- (b) The voltage selector switch is a plug-in system and is divided into six steps, 100/110/120/200/220/240. For example, if the power voltage distributed in your area is 100 volts A.C., reset to the FIGURE of 100, matching the MARKING. (Fig. 1 (b))
- (c) Change fuse according to voltage.  
Fuse: 100~120 V 1.5A, 200~240 V 1A

**CAUTION** Disconnect power plug from A.C. outlet before readjusting power voltage. To maintain optimum performance and to prolong the life of your machine, it is important that line voltage be kept within 10 percent deviation from the standard voltage.

### CYCLE

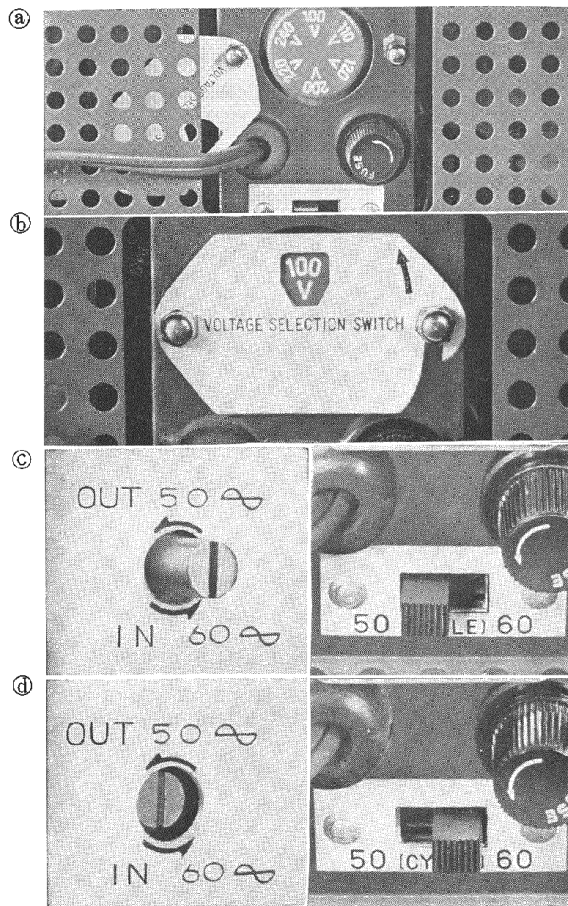
A correct tape speed is not obtainable if the recorder's CYCLE CONVERSION SWITCHES are not properly adjusted.

The CYCLE CONVERSION SWITCH (A) (c) is located at the center of the deck top panel and CYCLE CONVERSION SWITCH (B) (d) is located at the rear of the recorder.

Using a screw driver, rotate the CYCLE CONVERSION SWITCH (A) (c) counter clockwise approximately one-eighth of a turn. The switch can then be moved either OUT or IN. 50 cycle operation obtained by moving the switch OUT (Fig. 1 (c)), and 60 cycle operation, moving the switch IN (Fig. 1 (d)). The switch (c) should be rotated back to its original position after it has been moved either OUT or IN. It is also necessary to reset the CYCLE CONVERSION SWITCH (B) (d) to the desired position.

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

Fig. 1



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 Model 1710W operates usually on 3 tape speeds, 7-1/2, 3-3/4 and 1-7/8 ips.

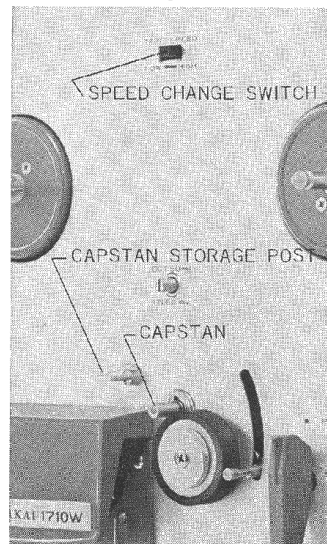
Refer to the chart above for selecting an adequate tape speed. Tape speed is determined by the motor speed and by use of a capstan on the tape drive capstan shaft.

- 1-7/8ips. The 1-7/8ips tape speed is obtained by setting the SPEED CHANGE SWITCH ③ to the position marked "LOW". The CAPSTAN ④ is not used and is mounted on the STORAGE POST ③.
- 3-3/4ips. The 3-3/4ips tape speed is obtained by setting the SPEED CHANGE SWITCH ③ to the position marked "LOW". The CAPSTAN ④ is mounted on the CAPSTAN SHAFT ⑤ and is locked automatically in position by the notches provided.
- 7-1/2ips. The 7-1/2ips tape speed is obtained by setting the SPEED CHANGE SWITCH ③ to the position marked "HIGH". The CAPSTAN ④ is used. In addition, the 15ips tape speed can be obtained by using an extra capstan and pinch wheel that will be obtained by optional accessories.

## RECORDING TIME

4-TRACK STEREO			
TAPE LENGTH	TAPE SPEED		
	1-7/8	3-3/4	7-1/2
1200 ft	4 hrs	2	1
1800	6	3	1.5
2400	8	4	2
4-TRACK MONO			
1200	8	4	2
1800	12	6	3
2400	16	8	4

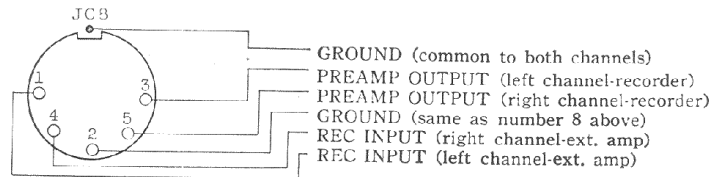
Fig. 2






## 7. DIN JACK

### Front View of DIN JACK



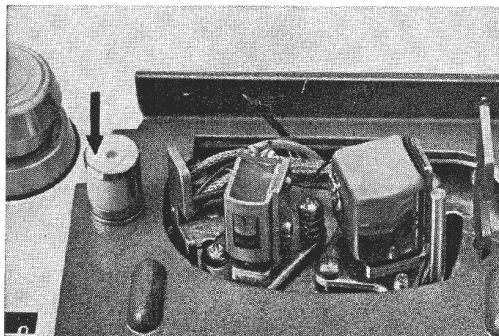
The DIN JACK  is provided at the rear of the Model 1710W for interconnecting the Model 1710W with an external stereo amplifier that has the same connection jack. This system will permit easy recording and playback of stereophonic programs through an external stereo amplifier as the complexity of connecting or disconnecting more than 4 separate plugs from the Model 1710W's panel side is not needed. If your amplifier is not equipped with the DIN jack and the use of this one connection system is required, AKAI DR-110 is usable.

## 8. TAPE CLEANER

A squeaking noise may annoy the operator while recording or playing. This may be caused either by poor tape or by ambient conditions of temperature and humidity. When foreign material adheres to the recording tape, this material piles up at the recording head, affecting volume or quality of sound.

The Model 1710W is provided with a tape cleaner, a tape cleaner pad properly soaked in silicon oil to eliminate noise. If the tape cleaner pad is contaminated so that it does not do good cleaning of the tape, loosen the upper screw and turn the tape cleaner pad to the unused side. When both surfaces of the pad are contaminated, the pad should be replaced with a new one. Upon replacing, one or two drops of silicon oil (included) should be placed on the felt for absorption.

**Note;** When an excessive amount of silicon oil is applied, the tape surface may become discolored and sticky.



## 1. TAPE LOADING

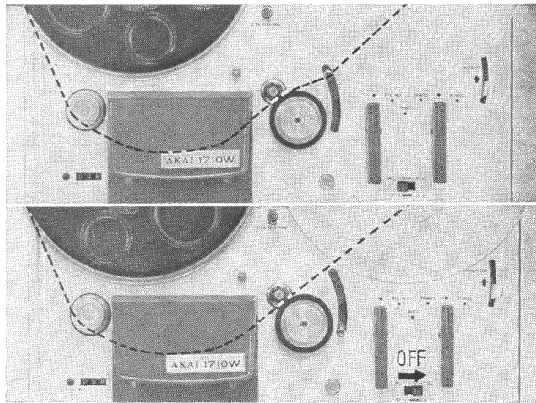


Fig. 3

Place the reel with tape on the SUPPLY REEL SHAFT ① and an empty reel on the TAKE-UP REEL SHAFT ③⑩.

Thread the tape as shown by the dotted line in Fig. 3 ④.

When the recorder is used in the vertical position, the reel holders must be used.

**IMPORTANT :**

When use of the automatic shut off is required, thread the tape through the AUTOMATIC SHUT OFF LEVER ②⑤.

If the automatic shut off is not required, thread the tape as shown by the dotted line in Fig. 3 ①④.

In this case, set the AUTOMATIC SHUT OFF SWITCH ②④ to "OFF".

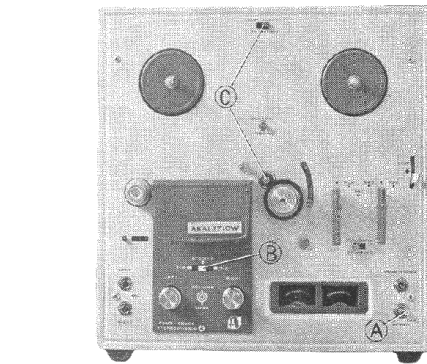


Fig. 4

Connect the power cord.

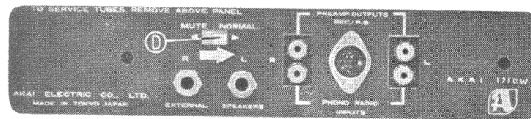
(A) Set the POWER SWITCH ②② to "ON".

(B) Set the TRACK SELECTOR ①② to "STEREO".

(C) Select the tape speed as required.

(D) Set the SPEAKER SWITCH ⑤⑥ to "NORMAL".

After the above operation, set a pre-recorded tape to the recorder



①④

- (E) Set the RECORD/PLAYBACK KNOB (25) to "PLAY".
- (F) Adjust the LEFT and RIGHT VOLUME CONTROLS (16) and (18) to desired volume.
- (G) Also adjust the LEFT and RIGHT TONE CONTROLS (15) and (17) to suit.  
Turning the TONE CONTROLS clockwise will increase treble response.

### 3. MONAURAL PLAYBACK

For monaural playback, substitute the following steps (B), (F) and (G) of the stereo procedure, and add step (H). Follow the rest of the stereo procedure.

#### Playback on track No. 1 and 4

Only the left channel amplifier is used for monaural playback on track No. 1 and 4.

- (B) Set the TRACK SELECTOR (12) to "1.4".
- (F) Adjust the LEFT VOLUME CONTROL (16) to desired volume.
- (G) Adjust the LEFT TONE CONTROL (15) to suit.
- (H) Turn the tape reel over to playback on track No. 4 as applicable.

#### Playback on track No. 3 and 2

Only the right channel amplifier is used for monaural playback on track No. 3 and 2.

- (B) Set the TRACK SELECTOR (12) to "3.2".
- (F) Adjust the RIGHT VOLUME CONTROL (18) to desired volume.
- (G) Adjust the RIGHT TONE CONTROL (17) to suit.
- (H) Turn the tape reel over to playback on track No. 2 as applicable.

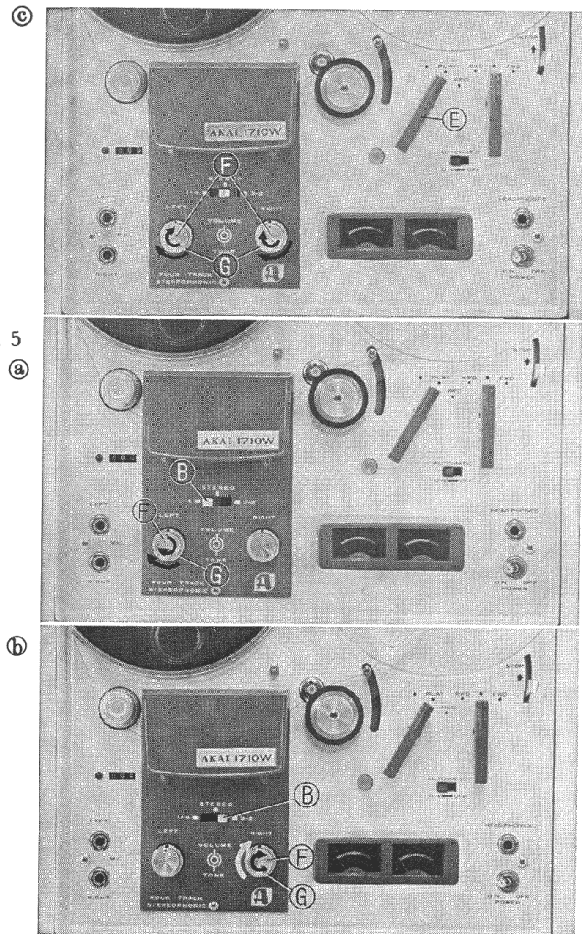


Fig. 5

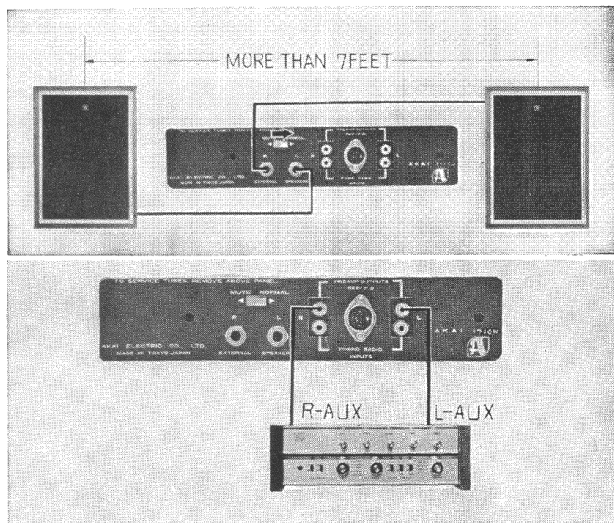


Fig. 6

(a)

(b)

## 4. PLAYBACK USING EXTERNAL SPEAKERS OR AMPLIFIER

Though your AKAI 1710W has two internal speakers, a pair of high fidelity external speakers will enable you to enjoy the best sound reproduction.

- (A) Set the SPEAKER SWITCH (36) to "NORMAL".
- (B) Insert the plugs from the external speakers into the LEFT and RIGHT EXTERNAL SPEAKER JACKS (37) and (38).  
The external speakers should be separated by at least seven feet. When the speaker plugs are in the speaker jacks, the respective internal speakers are inoperative.

If an external stereo amplifier is used for playback, connect the LEFT and RIGHT LINE OUTPUT JACKS (41) and (42) to the LEFT and RIGHT AUX JACKS of the amplifier.

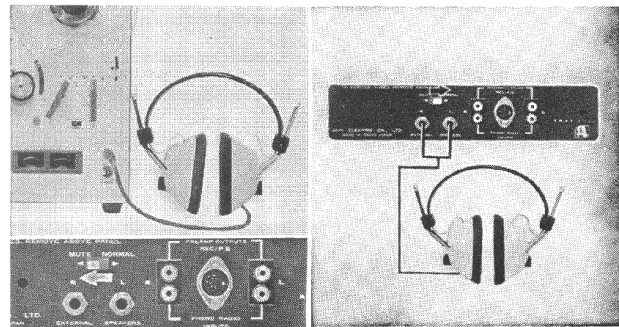


Fig. 7

(a)

(b)

## 5. PLAYBACK USING STEREO HEADPHONE

A stereo headphone set of low impedance type may be used for listening to stereo programs without disturbing others.

If your stereo headphone has just one plug of the standard stereo connection type, connect it to the STEREO HEADPHONE JACK (23). So, set the SPEAKER SWITCH (36) to "MUTE".

If your headphone is equipped with two separate plugs, connect them to the LEFT and RIGHT EXTERNAL SPEAKER JACKS (39) and (37). So, set the SPEAKER SWITCH (36) to "NORMAL".

## 6. AUTOMATIC SHUT OFF

One of the exclusive features of the 1710W is the automatic shut off function of the unit. Whenever the tape comes to the end, or broken by accident, the AUTOMATIC SHUT OFF LEVER 28 drops down and the function of both deck and amplifier is automatically cut off. In this case, set the AUTOMATIC SHUT OFF SWITCH 24 to "ON". So this switch is operated in connection with the AUTOMATIC SHUT OFF LEVER 28.

## 7. INSTANT STOP CONTROL

To stop tape momentarily while making recording or playing, push the PAUSE LEVER 27 as shown in the Fig. 9. The lever will be locked at the stop position and it can be released by lifting the curved tip upward.

The PAUSE LEVER 27 is not used when the recorder is set to either Fast Forward or Rewind operation.

An optimum recording level can be decided before start recording by using the PAUSE LEVER 27 after the recorder is set to the normal recording mode. Adjust the corresponding volume control to set while watching the LEFT and RIGHT VU METERS 19 and 20).

## 8. FAST-FORWARD AND REWIND

Fast forward or rewind operation is made by turning the FAST FORWARD/REWIND KNOB 26 to the proper position.

Use the fast forward or rewind operation for a rapid selection of record materials on a given tape.

## 9. STEREO RECORDING

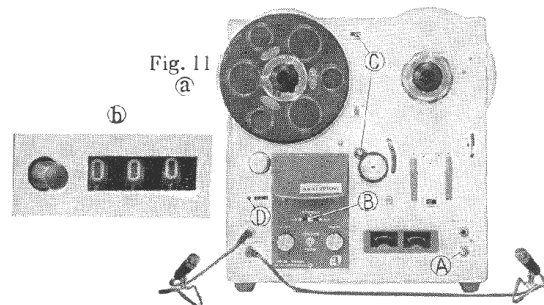
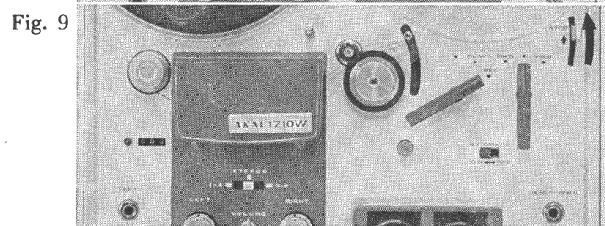
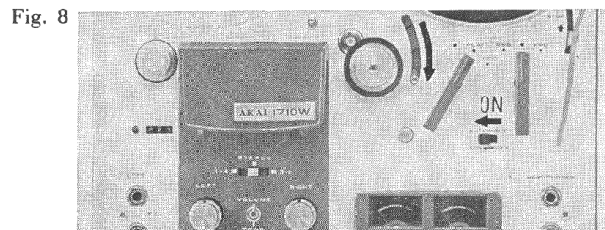
Connect the power cord and load a tape as shown on Page 9.

- (A) Set the POWER SWITCH 22 to "ON".
- (B) Set the TRACK SELECTOR 12 to "STEREO".
- (C) Select the tape speed as desired.
- (D) Set the INDEX COUNTER 9 to "000".

This INDEX COUNTER 9 provides a reference for locating the position on the tape.

- (E) Insert the microphone plugs into the LEFT and RIGHT MICROPHONE JACKS (13 and 14).

## AKAI 1710W OPERATING INSTRUCTIONS



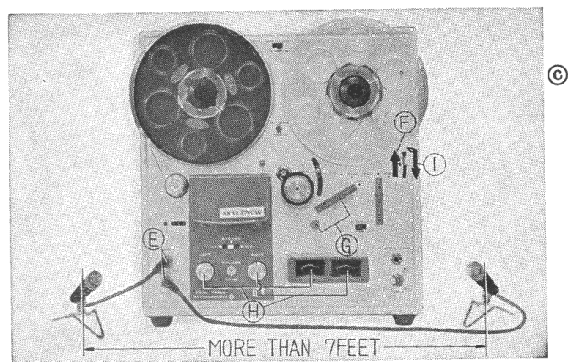
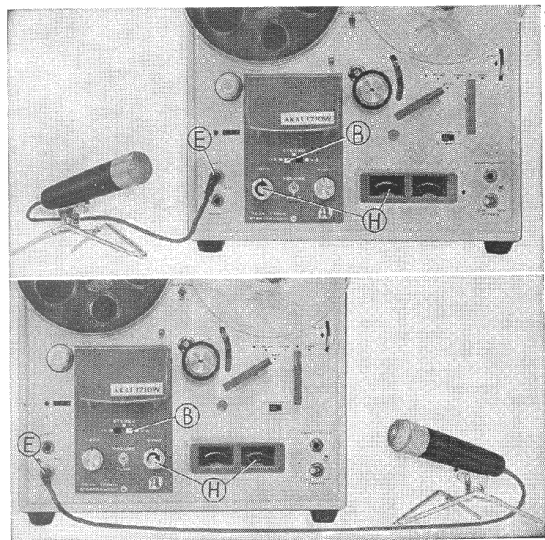


Fig. 12



- Maintain a distance of at least seven feet between the microphones.
- (F) Push the PAUSE LEVER (27) upward until it locks.
  - (G) Turn the RECORD/PLAYBACK KNOB (25) to "REC" while depressing the RECORD SAFETY BUTTON (21).
  - (H) Microphone volume level may be adjusted and balanced by the LEFT and RIGHT VOLUME CONTROLS (16 and 18). Normal recording should not exceed "0" on the VU Meters (19 and 20).
  - (I) After an optimum recording level is determined, release the PAUSE LEVER (27) to start stereo recording.
  - (J) To stop recording, return the RECORD/PLAYBACK KNOB (25) while depressing the RECORD SAFETY BUTTON (21).

**CAUTION:**

- (a) Tone control has no effect during recording as it is automatically disconnected by starting recording.
- (b) If the microphones are used near the recorder, acoustic feedback may result. To avoid this, set the SPEAKER SWITCH (36) to "MUTE"

**10. MONAURAL RECORDING**

For monaural recording, substitute the following steps (B), (E) and (H) of the stereo procedure, and add step (K). Follow the rest of the stereo procedure.

**Recording on track No. 1 and 4**

Only the left channel amplifier is used for monaural recording on track No. 1 and 4.

- (B) Set the TRACK SELECTOR (12) to "1.4".
- (E) Insert the microphone plug into the LEFT MICROPHONE JACK (13).
- (H) Microphone volume level may be adjusted and balanced by the LEFT VOLUME CONTROL (16), observing the LEFT VU METER (19).
- (K) Turn the tape reel over to record on track No. 4 as applicable.

**Recording on track No. 3 and 2**

Only the right channel amplifier is used for monaural recording on track No. 3 and 2.

- (B) Set the TRACK SELECTOR (12) to "3.2".
- (E) Insert the microphone plug into the RIGHT MICROPHONE JACK (14).
- (H) Microphone volume level may be adjusted and balanced by the RIGHT VOLUME CONTROL (18), observing the RIGHT VU METER (20).
- (K) Turn the tape reel over to record on track No. 2 as applicable.

**CAUTION:** If the sound sources are so far from the microphones that the **VOLUME CONTROLS** (16 and 15) must be turned up high, some hum may be introduced. To avoid recording the hum, attach a ground wire to the deck.

**11. 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** (39 and 40) in step (E) of the recording procedure.

**12. RECORDING FROM DISCS**

To record from a stereo or monaural disc, a "CRYSTAL PICK UP" or a "CERAMIC PICK UP" can be directly connected to the **LINE INPUT JACKS** (39 and 40) in step (E) of the recording procedure. If a "MAGNETIC CARTRIDGE" is used it must be connected to separate pre-amplifier or external amplifier before being connected to the **LINE INPUT JACKS** (39 and 40).

Fig. 13

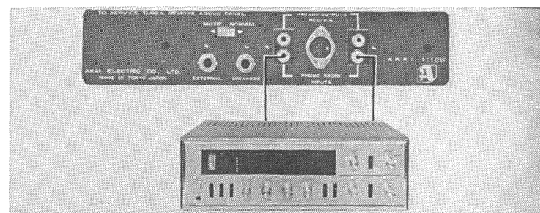
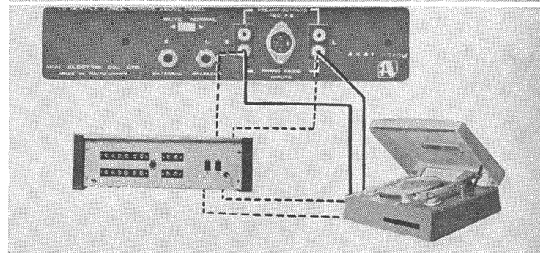


Fig. 14



TRACK	CHANNEL	JACK	TRACK SELECTOR POSITION	VOLUME CONTROL	VU METER
<b>STEREO RECORDING</b>					
No. 1-3	RIGHT & LEFT	RIGHT & LEFT MIC. JACK or RIGHT & LEFT LINE JACK	STEREO	RIGHT & LEFT	RIGHT & LEFT
No. 2-4	"	"	"	"	"

**MONAURAL RECORDING**

No. 1	LEFT	LEFT MIC. JACK or LEFT LINE JACK	1-4	LEFT	LEFT
No. 4	"	"	"	"	"
No. 3	RIGHT	RIGHT MIC. JACK or RIGHT LINE JACK	3-2	RIGHT	RIGHT
No. 2	"	"	"	"	"



## 13. RECORDING FROM ANOTHER TAPE RECORDER

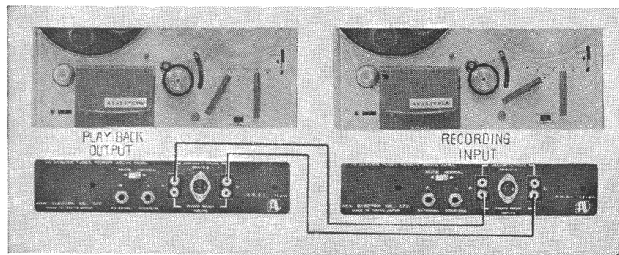


Fig. 15 If another 1710W is used, connect the **LINE OUTPUT JACKS** (41) and (42) of the playback machine to the **LINE INPUT JACKS** (39) and (40) of the recording machine in step (E) of the recording procedure. If another tape recorder is used as a playback machine, connect its **LINE OUTPUT JACKS** or **EXTERNAL SPEAKER JACKS** to the **LINE INPUT JACKS** (39) and (40) of the 1710W in step (E) of the recording procedure.

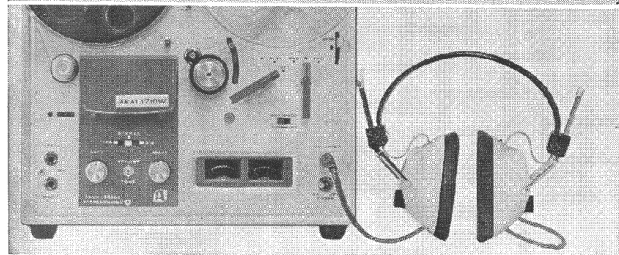


Fig. 16

## 14. MONITORING

Monitoring is made by connecting **STEREO HEADPHONE** to the **STEREO HEADPHONE JACKS** (23).

On monaural as well as stereo recording, please use the stereo headphone.

**CAUTION:** It is important that a stereo headphone should be one of low impedance type (8 ohms).

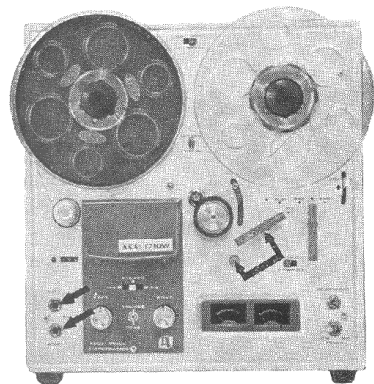
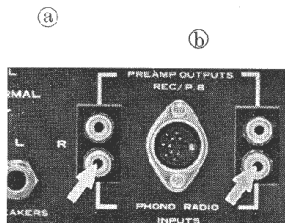


Fig. 17



## 15. TAPE ERASING

Any materials previously recorded on tape will be erased automatically as a new recording is made on the same tape. Thread the tape and then run it with the recorder set to normal recording condition. There should be no plugs connected to the recorder's **INPUT JACKS** and **VOLUME CONTROLS** (16) and (18) should be kept to "0".

It is recommendable to use a **BULK TAPE ERASER** for quick and complete erasing.



## 16. TAPE SPLICING AND EDITING

Cut the tape diagonally with an overlap so that the ends will line up. (Cutting tape on a diagonal eliminates the detection of the splice in recording.)

Cover the aligned ends with **SPLICING TAPE**.

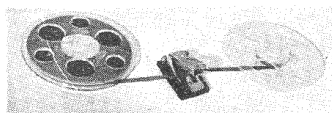
Press firmly, exerting pressure to secure the ends evenly.

Trim off the excess **SPLICING TAPE**.

(Cut into the recording tape very slightly as illustrated by the dotted lines.

This eliminates a possibility of a sticky splice.)

Fig. 18



Splicing of tape using scissors requires skillful work. However, our specially designed Portable Splicer can be done smoothly.

## 17. HEAD DEMAGNETIZATION

Normally the steel pole pieces which form a part of the recording/playback head become slightly magnetized. The effect of the slight head magnetization is to partially erase the tape.

Mostly high frequencies suffer. Generally, slight magnetized heads can be detected by noticing loss of normal high frequency response which cannot be corrected through head alignment. Severe magnetization which may result if magnetized tools are used in the vicinity of the heads, will result in noise or considerable distortion in addition to the loss of high frequency response. Although the 1710W already has a built-in Head Demagnetizing circuit, it is recommended that head demagnetization should be done periodically. Head demagnetization can be accomplished by touching the head lightly with the demagnetizer and making several small circular motions overall head surface areas as well as the head housing.

(See Fig. 19)

## AKAI 1710W OPERATING INSTRUCTIONS

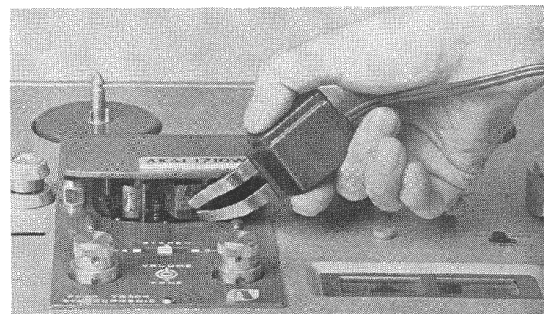
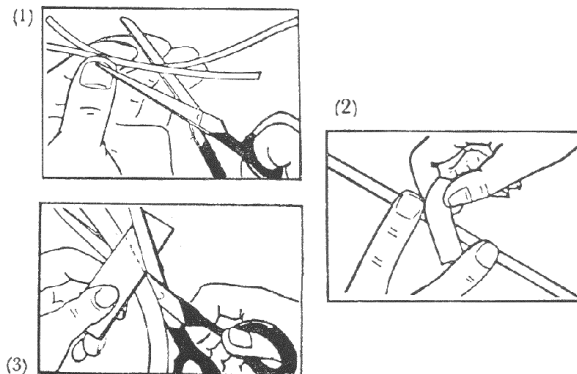
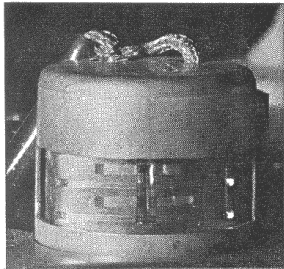


Fig. 19

## DUST DEPOSIT ON RECORD & ERASE HEAD ACCOUNTS FOR 90% OF TAPE RECORDING FAILURES!!

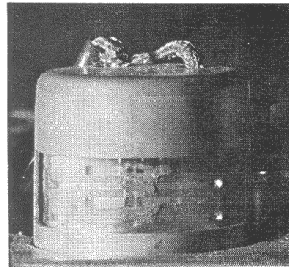
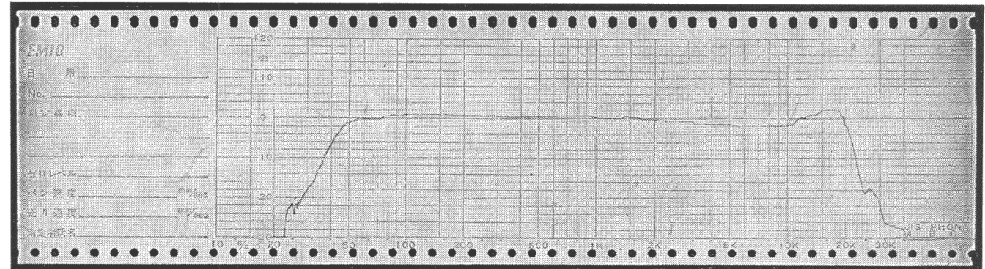
It is imperative for quality performance of a tape recorder to keep the heads neat and clean at times. Dust and magnetic particles from the tape tend to deposit on the heads after prolonged use of the tape recorder. This would result in poor head-to-tape contact, deteriorating the sound quality and sensitivity. What is worse, such dust would cause a fatal drop in recording, playback and erase quality levels.

### EXAMPLE

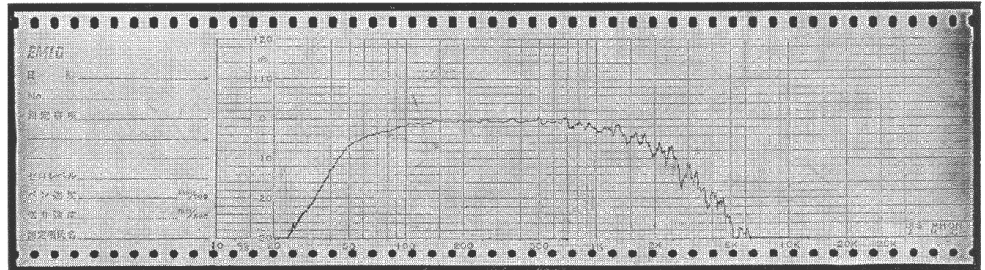


**CLEAN HEAD**

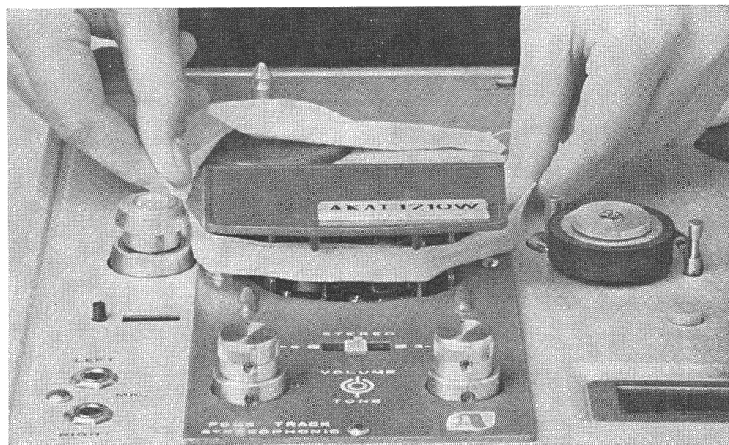
**Frequency response curve**



**DUSTY HEAD**



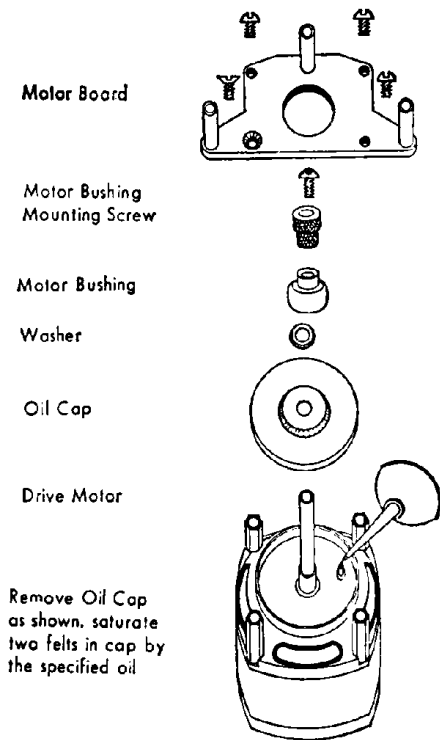
Make it a rule to clean the heads every time you use your tape recorder. AKAI's Head Cleaning Kit (Accessory No. HC-500) is recommended for removing the foreign matters deposited on the heads. If this kit is not available, use alcohol.



NOTE: Clean the heads after setting the RECORD/PLAYBACK KNOB to "PLAY"

For maximum service life and optimum performance, it is recommended that the drive motor of your recorder be removed and lubricated on each 1000 hrs. (as illustrated.)

Another oil aperture is located at the base of the CAPSTAN SHAFT of the front panel. Refer to LUBRICATION CHART with regard to other lubrication points.



## LUBRICATION CHART

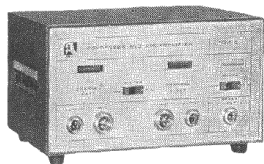
LUBRICATION POINT	LUBRICANT	AMOUNT OF LUBRICANT	NOTES
Supply and Take-up Reel Spindle Shafts	#1	2 drops on each shaft	Lubricate from bottom of transport mechanism. Depress springs, flow oil down shaft.
Rewind Idler Bearing, Wind Take-up Idler Bearing	#1	2 drops on each Idler bearing	Remove top panel, remove idler retaining rings and composition washers; lift idler slightly, oil. Allow oil to soak into bearings and to flow down shaft before reassembly. Wipe off excess immediately.
Pinch Roller Bearing.	#1	See note	Remove metal cap and retaining screw. Remove roller. Apply liberal coating of lubricant to bearing bore, replace roller on shaft. When lubricating pinch roller do not replace roller until capstan bearing has been oiled.
Drive Capstan Shaft	#1	Saturate felt washer in chrome cup, Retaining	Remove speed change bushing, flow oil between shaft and retaining cap, clean shaft with alcohol soaked cloth.
Roller on all levers and cams	#2	Noted	Apply a liberal film of lubricant to each roller surface only as needed.

LUBRICANTS: #1—Light machine oil. #2—Light machine grease. Lubricate recorder every 3 months in heavy duty service, each 6 months in moderate service, or annually in light service.

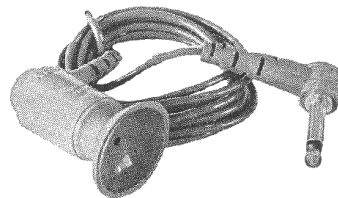
CAUTION: Do not over-lubricate.

# 1. ACCESSORIES OPTIONAL

# AKAI 1710W ACCESSORIES



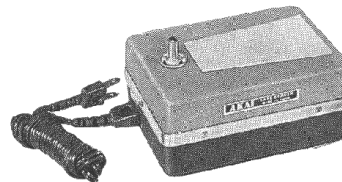
CM-15



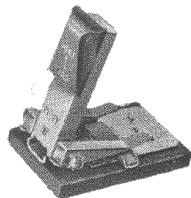
AP-2



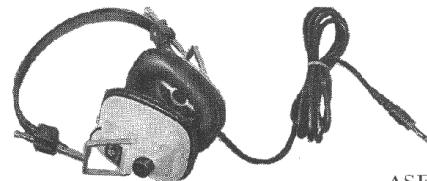
DM-13



ATE-7



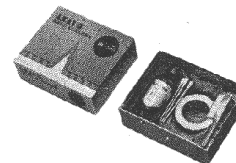
AS-3



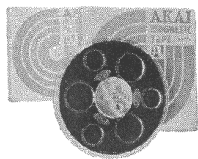
ASE-9S



AH-6



HC-500



MAGNETIC TAPE



TAPE REEL

**AKAI Magnetic Tape & Tape Reel**

AKAI Magnetic Tape

- AT-5S ( 600 feet)
- AT-7S (1,200 feet)
- AT-10S (2,400 feet)
- AT-5L ( 900 feet)
- AT-7L (1,800 feet)
- AT-10L (3,600 feet)

AKAI Tape Reel

- ATR-5 (for 5")
- ATR-7 (for 7")

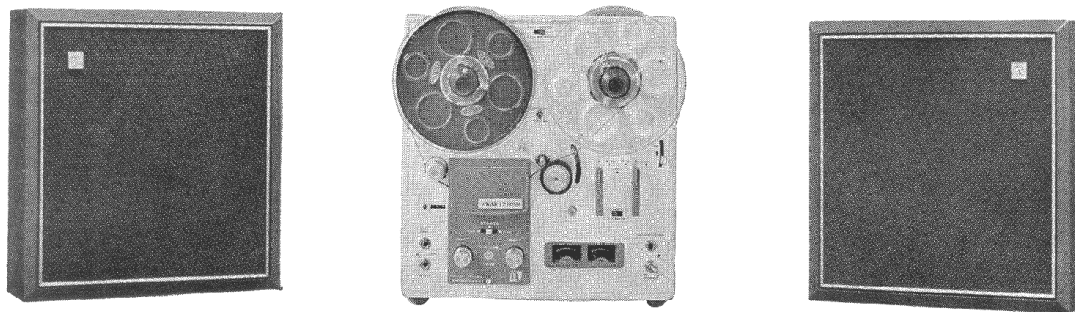
**2. ACCESSORIES STANDARD**

5" Demonstration Tape .....	1	Silicon Oil .....	1
5" Empty Reel .....	1	Tape Cleaner Pad .....	2
Microphone with Stand .....	2	Spare Fuse .....	2
Reel Holder .....	2	Operator's Manual .....	1

## MODEL **SW-50**

The model SW-50 is compact type stereo speaker system. It provides superb Hi-Fi sound when used with the Model 1710W stereo tape recorder.

Speaker	: 5" High compliance speaker
Impedance	: 8 ohms
Max. Power Input	: 10 watts
Frequency Response	: 70~15,000 cps.
Dimensions	: 14-1/8"H × 13-1/2"W × 4-1/4"D
Weight	: 13.2 lbs. (set)





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**AKAI TRADING CO., LTD.**  
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