TEAC®

A-6010

STEREO TAPE DECK

OPERATING INSTRUCTIONS

TEAC CORPORATION

The **TEAC A-6010** 4 track tape deck is high quality equipment designed to serve those audiophiles who are critical in sound.

The **TEAC A-6010** deck has an extra playback head for automatic reverse play which eliminates need for turning the tape over when the end of the reel is reached.

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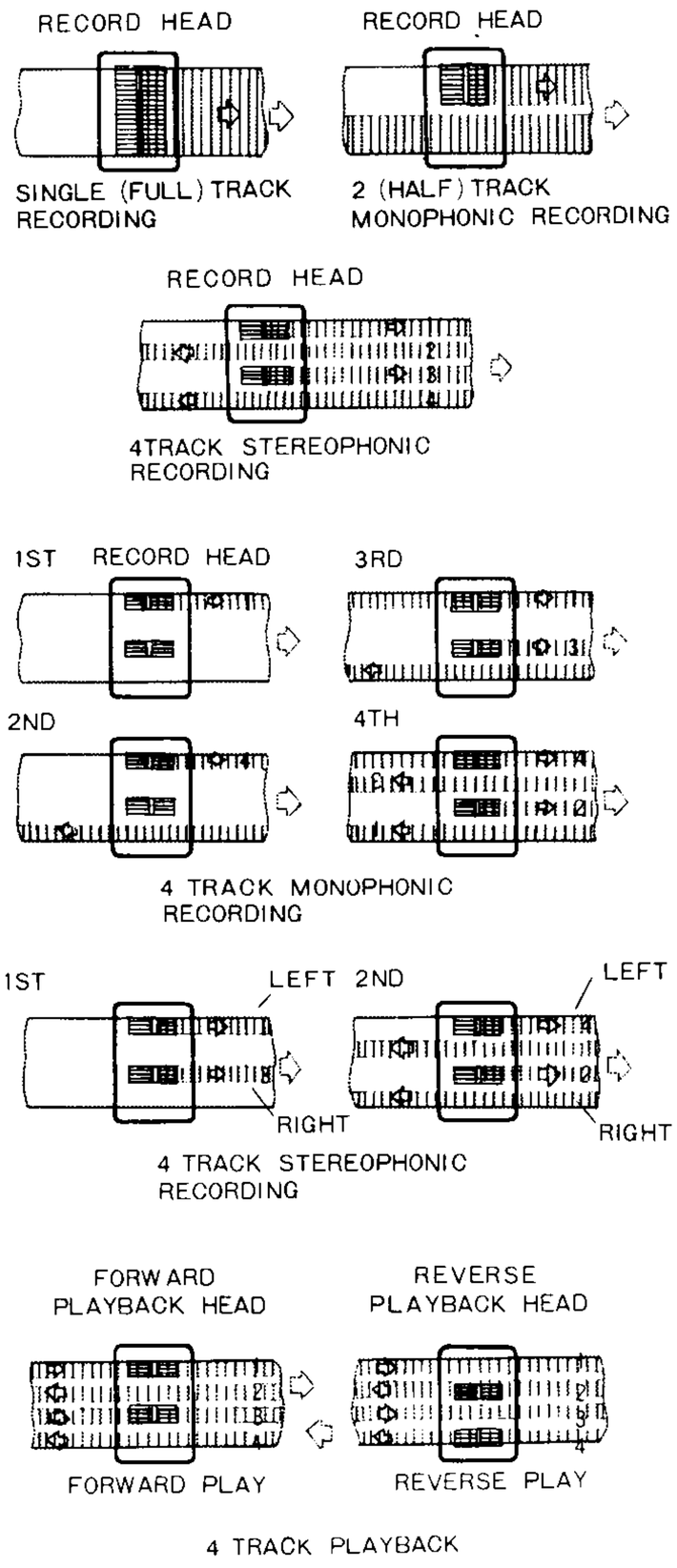
SPECIFICATIONS

Head	Four, 4 track 2 channel Erase, Record, Forward playback and Reverse playback.
Reel Size	7″ maximum
Tape Speed	$7^1/_2$ and $3^3/_4$ ips (±0.5%)
Motor	1-dual speed hysteresis synchronous motor for capstan drive 2-eddy current type outer rotor motors for reel turntables
Wow and Flutter	$7^1/_2$ ips: 0.08% $3^3/_4$ ips: 0.12%
Fast Winding Time	Approximately 90 seconds for 1,200 feet
Frequency Response	$7^1/_2$ ips: 30 to 20,000 Hz (±2 dB 50 to 15,000 Hz) $3^3/_4$ ips: 30 to 15,000 Hz (±2 dB 50 to 10,000 Hz)
SN Ratio	55 dB
Crosstalk	40 dB between adjacent tracks at 100 Hz
Stereo Channel Separation	50 dB channel to channel at 1,000 Hz
Input	Microphone: 10,000 ohms, (−66 dB) 0.5 mV minimum Line: 0.1 V (impedance 300,000 ohms)
Output	Approx. 1 volt for a load impedance of 100,000 ohms or more
Power Requirements	100/117/200/220/240 VAC 50/60 Hz, 100 W
Weight	46 lbs

WHAT IS FOUR TRACK RECORDING

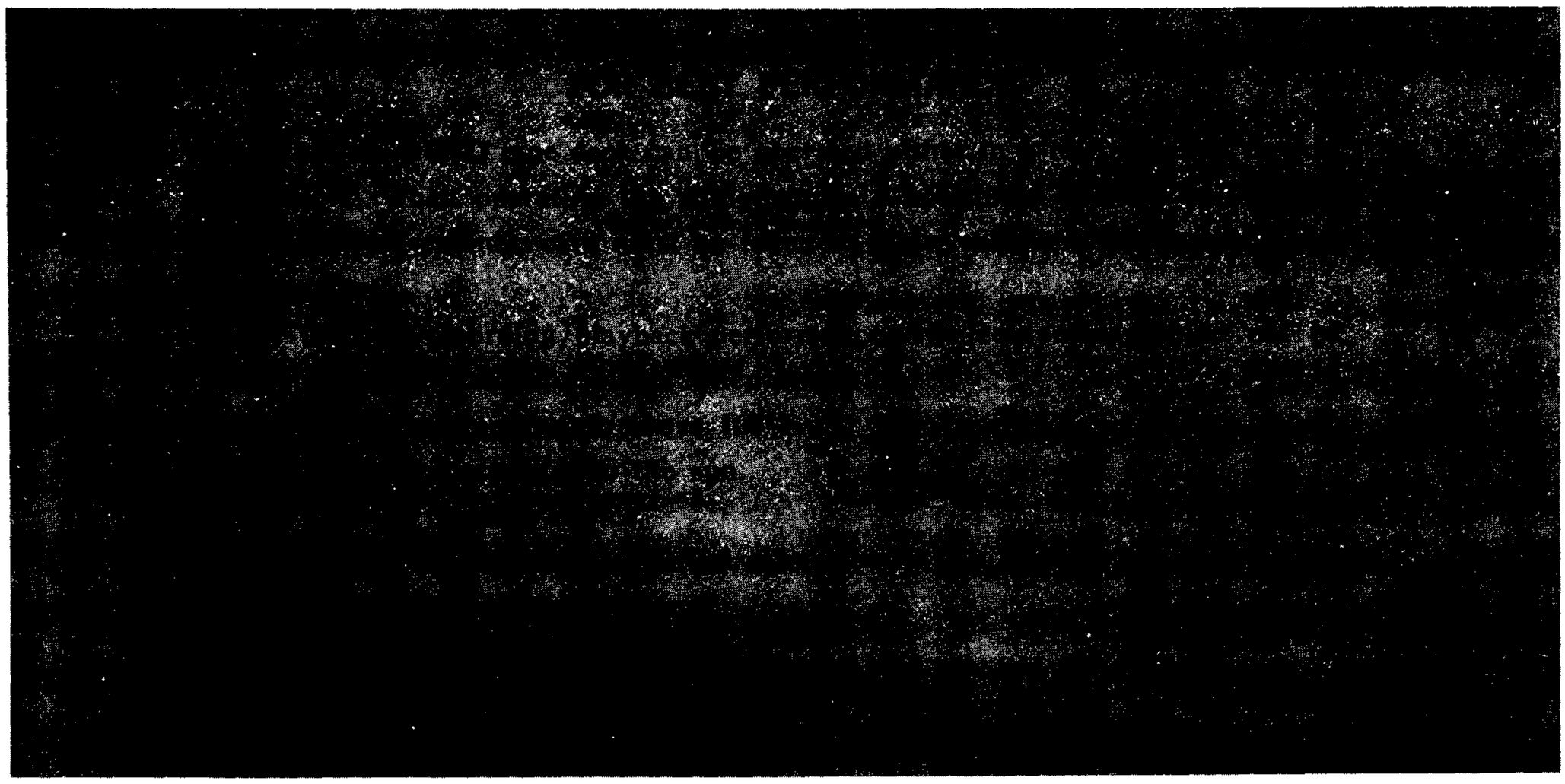


There are various ways to make a recording on tape. Four track recording is a method of increasing the recording time to four times that of full track recording.

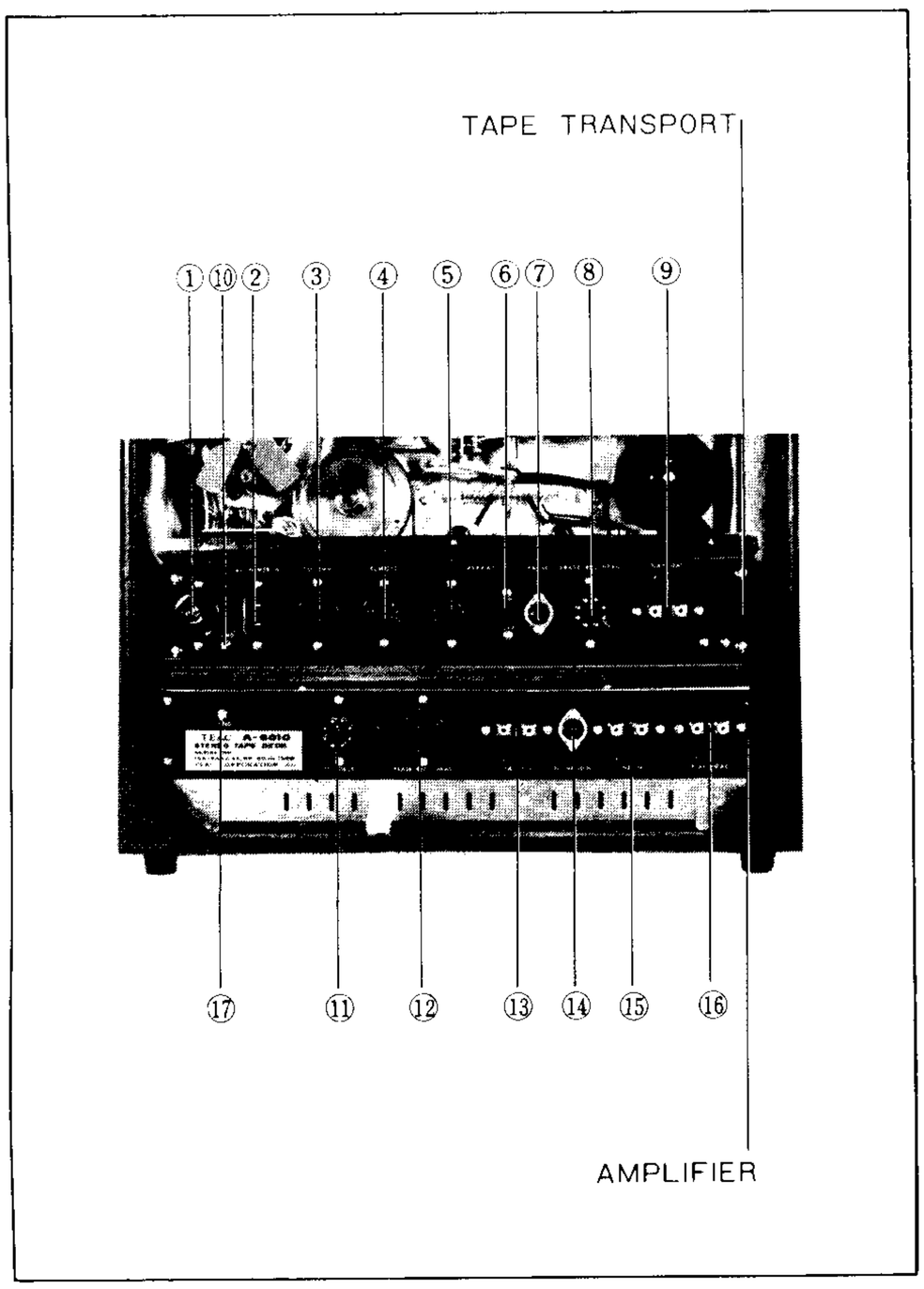
Full (Single) Track Recording is used mainly by broadcasting companies and recording studios for ease of editing and operation.

Two (Half/Double) Track Recording doubles the recording time. It is used on almost all conventional monophonic tape recorders.

Four (Quarter) Track Recording uses four parallel tracks, each track carrying the recording from a single source. For stereo recording, two tracks are used simultaneously. In 4 track recording, the tracks are designated from 1 to 4 consecutively counting from the top to the edge closest to the face of recorder.



CONNECTIONS

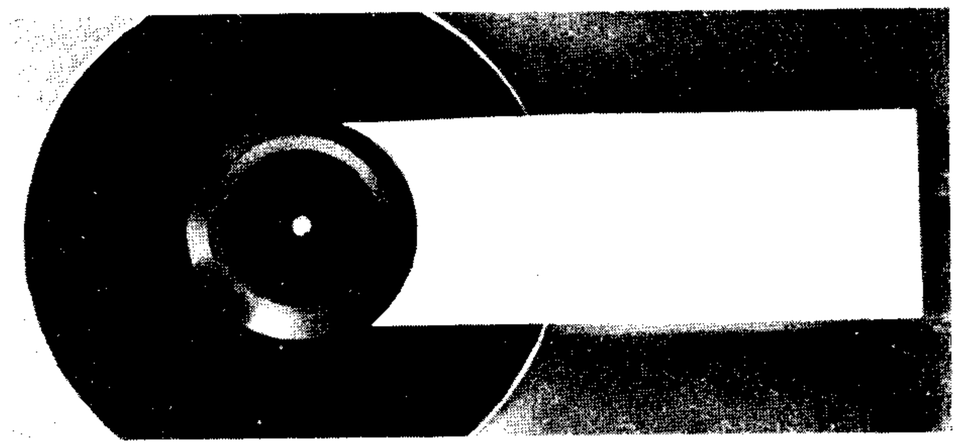


TAPE TRANSPORT

① AC POWER IN	Fuse, 2 amperes
② AC POWER IN	Receptacle, AC power input
③ TO AMP	Receptacle, Amplifier cord
④ REMOTE	Receptacle, Remote control unit
⑤ REPEAT	Receptacle, Repeat unit
⑥ REPEAT	Switch, Repeat
⑦ PAUSE	Receptacle, pause control unit
⑧ ERASE/REC HEAD	Receptacle, Record and erase head
⑨ PLAY HEAD	Jack, Playback head
⑩ GND	Ground Terminal

AMPLIFIER

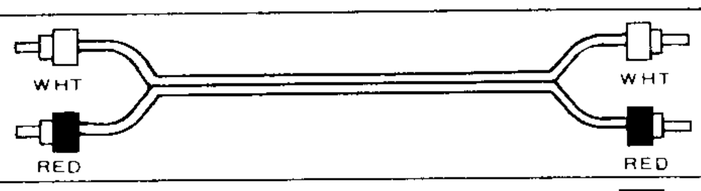
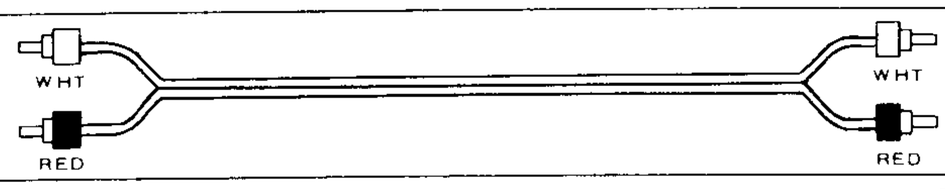
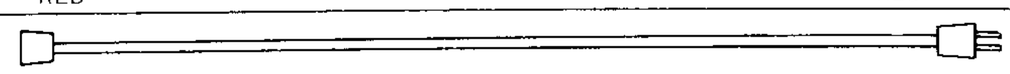
⑪ TO DECK	Receptacle, Tape transport cord
⑫ ERASE/REC HEAD	Receptacle, Record and erase head
⑬ LINE OUT	Jack, Line output
⑭ IN/OUT (DIN)	Receptacle, DIN cord
⑮ LINE IN	Jack, Line input
⑯ PLAY HEAD	Receptacle, Playback head
⑰ GND	Gnd Terminal



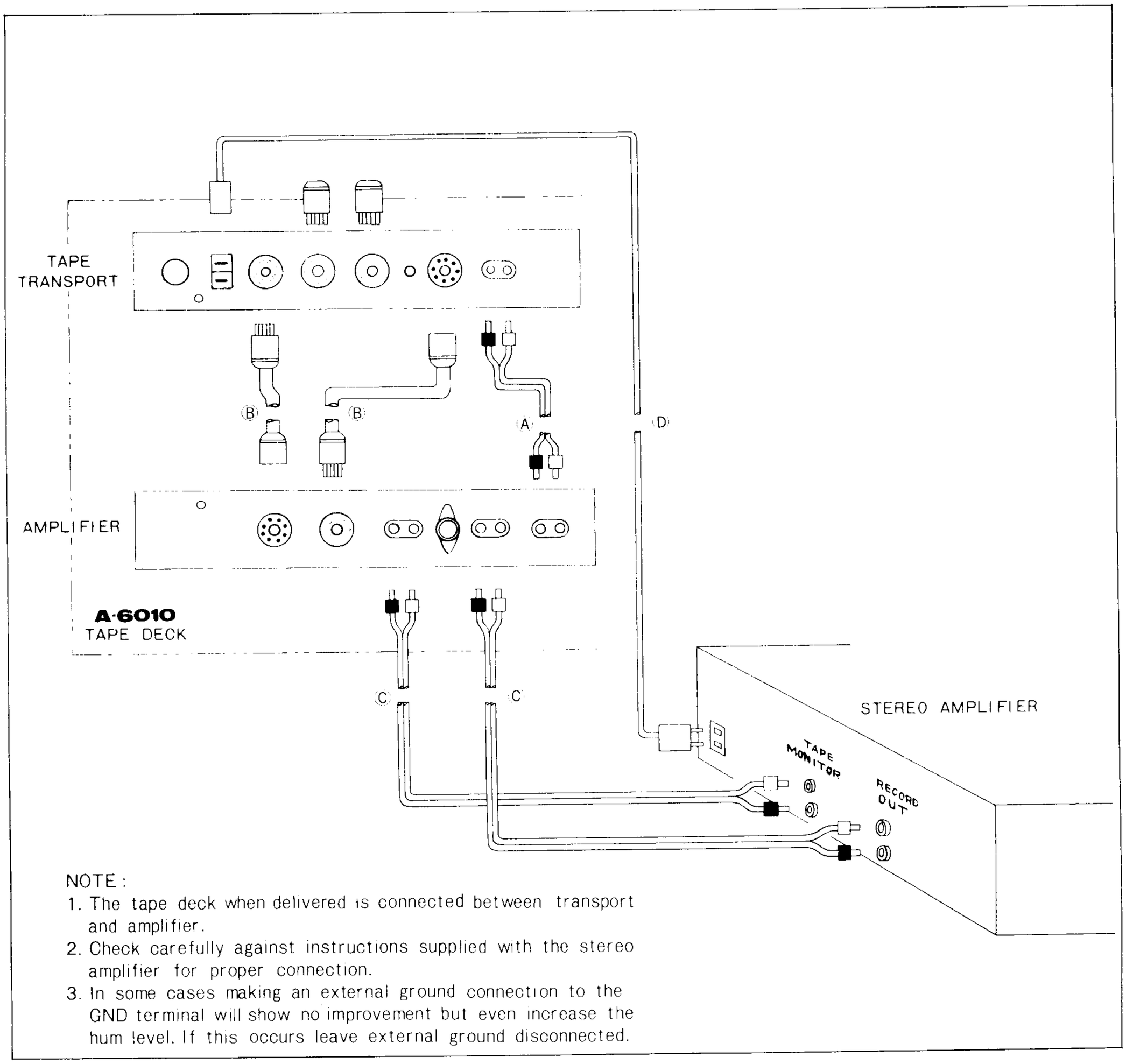
BEFORE ENERGIZING THE EQUIPMENT, make sure that the settings of the equipment correspond with the voltage and frequency that are available at your power source.

The equipment when delivered is normally adjusted to operate on a power souce voltage and frequency specified on the reel tag and the packingcarton. See "VOLTAGE AND FREQUENCY CONVERSION", page 17 for conversion of the voltage or frequency.

INTERCONNECTING CABLES

NAME		CODE	CORDS	QTY
PLAYBACK HEAD CABLE	LEFT / RIGHT	A		1 *
TRANSPORT-AMP CABLE		B		2 *
INPUT AND OUTPUT CABLE	LEFT / RIGHT	C		2
AC POWER CORD		D		1

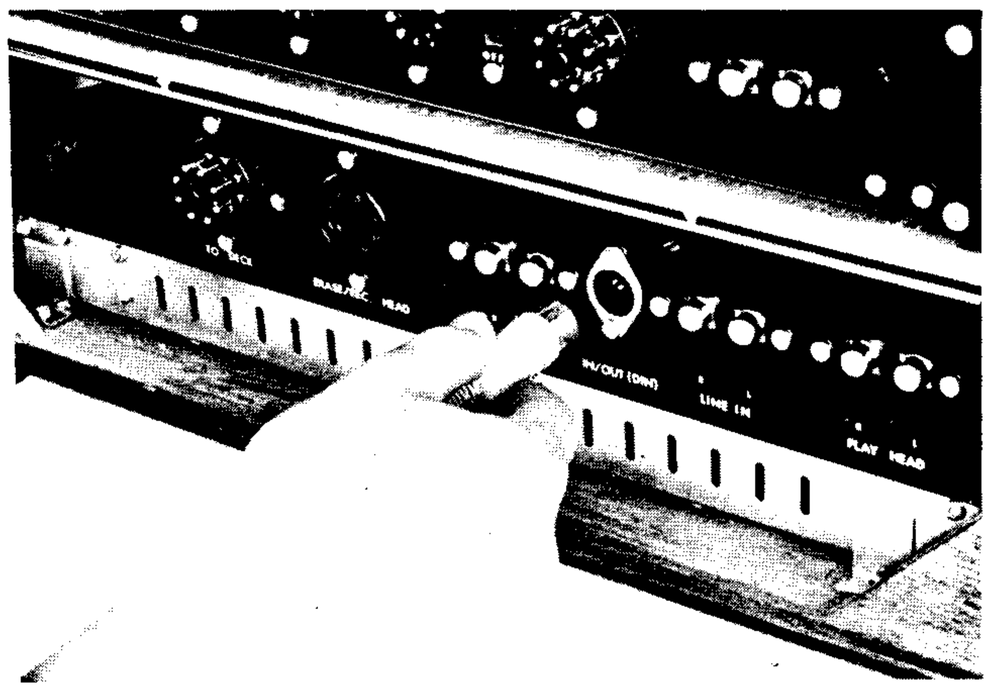
*These are connected to tape transport and amplifier.



NOTE :

1. The tape deck when delivered is connected between transport and amplifier.
2. Check carefully against instructions supplied with the stereo amplifier for proper connection.
3. In some cases making an external ground connection to the GND terminal will show no improvement but even increase the hum level. If this occurs leave external ground disconnected.

DIN CORD

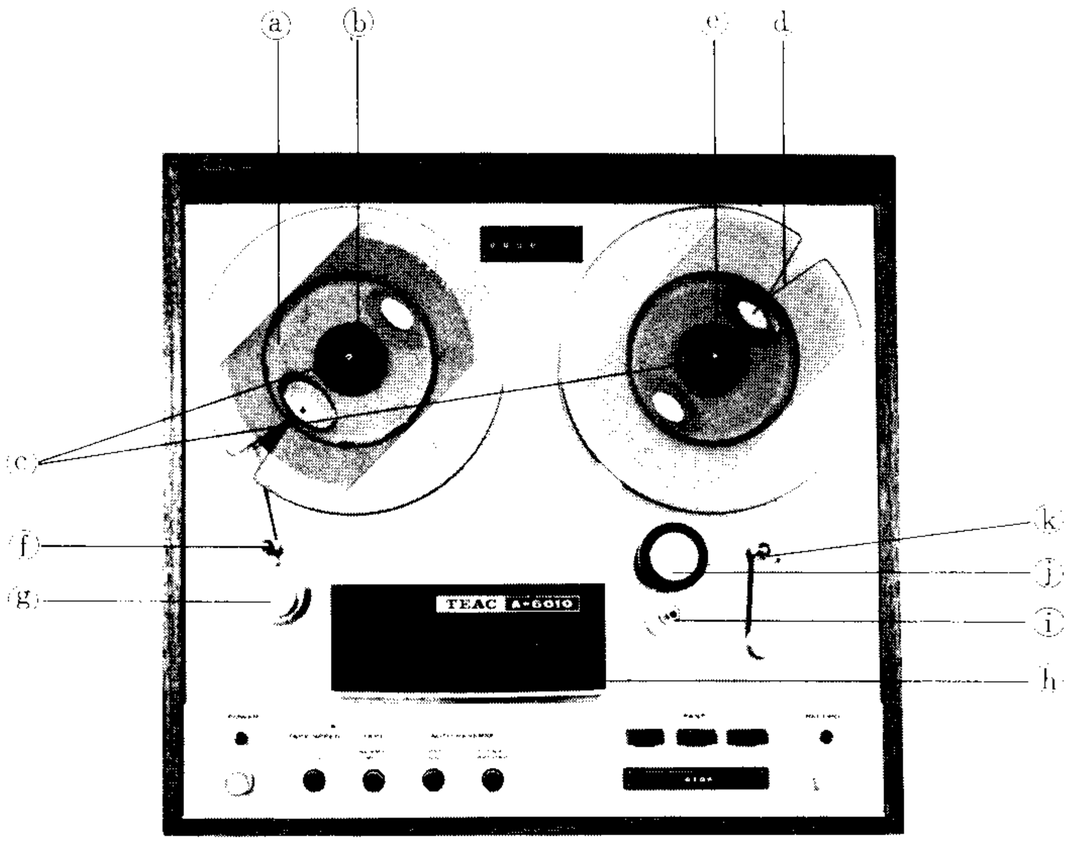


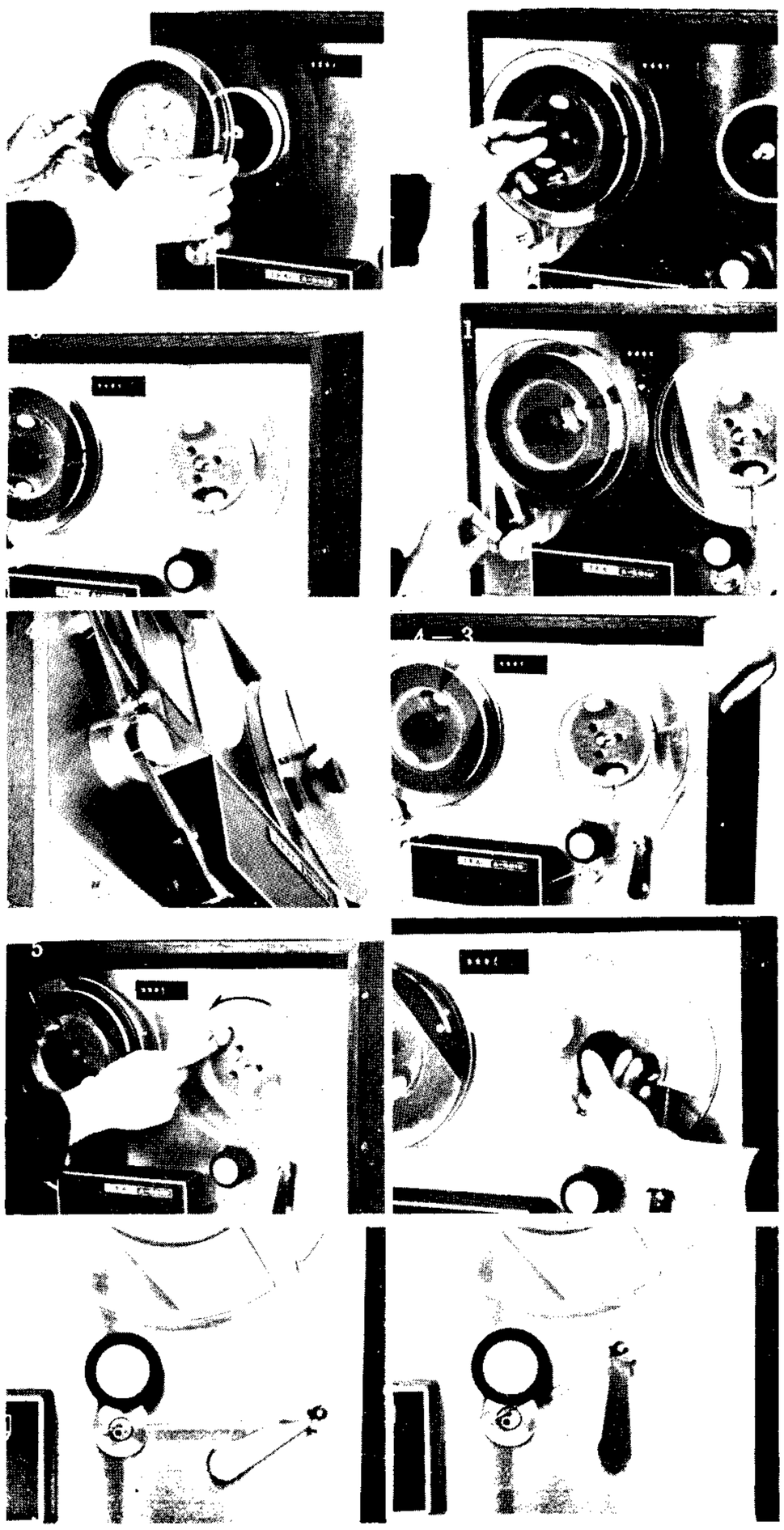
An optional cord with DIN (German Standard) connectors may be used for interconnecting the deck and stereo amplifier system by a single connection.

NOTE: When using the 'DIN cord recording levels are set by the MIC control and MIC/LINE mixing cannot be performed.

If the use of DIN cord causes insufficient volume level or tone quality, remove the cord and use four cords furnished with the equipment.

THREADING THE TAPE

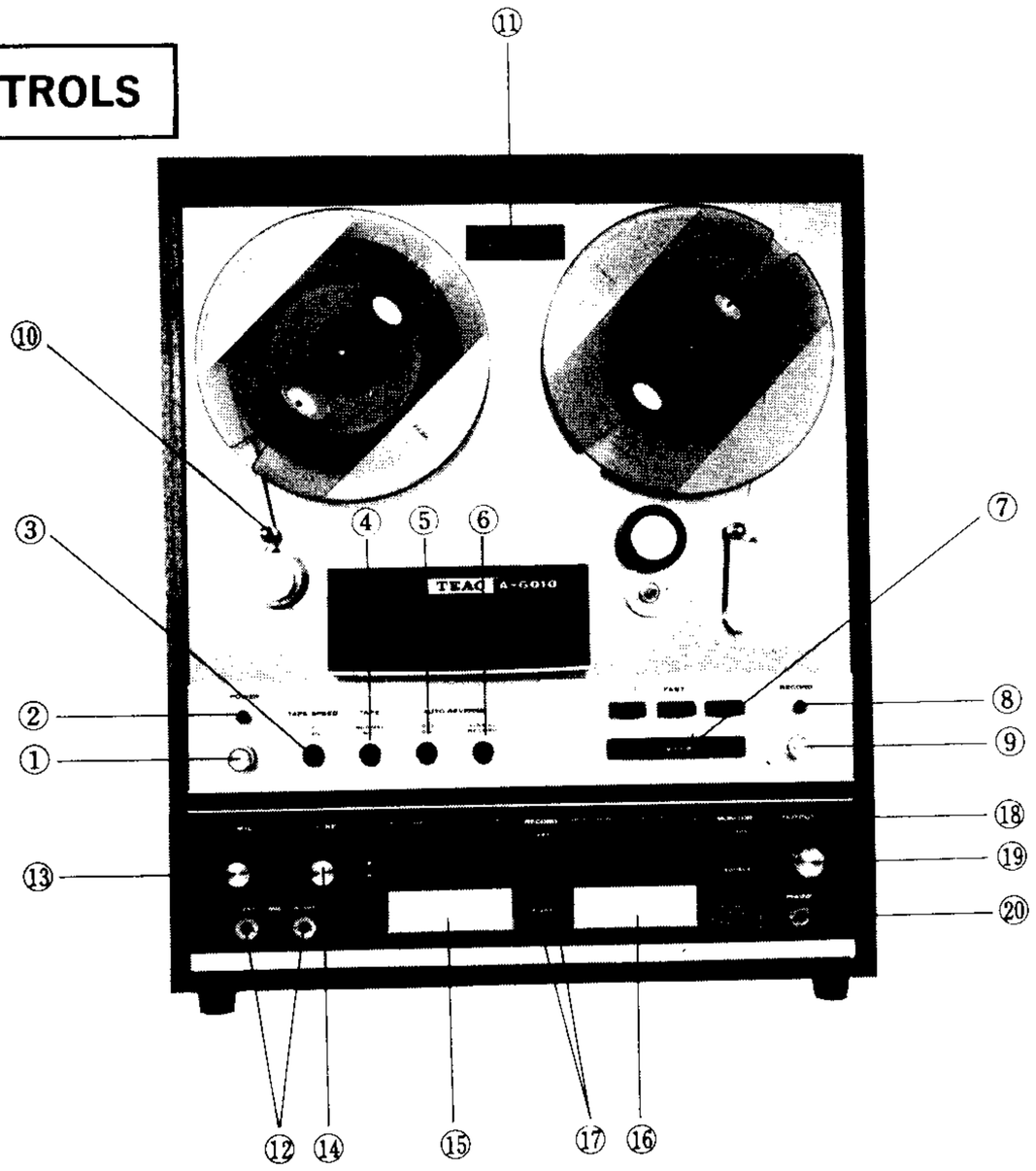




1. Center the reel of tape ⓐ on the left turntable ⓑ.
2. Press a reel holder ⓒ over the shaft to secure the reel.
3. Place an empty reel ⓓ of the same diameter as the full one, on the right turntable ⓔ.
4. Thread the tape from the supply reel through the compliance arm ⓕ, stabilizer roller ⓖ, head assembly ⓗ, between the capstan ⓘ and the pinch-roller ⓙ, and the automatic shut-off arm ⓚ, to the take up reel (empty reel ⓓ).
5. Secure the end of the tape to the empty reel hub.
6. Press the other reel holder ⓒ to secure the takeup reel.
7. Rotate the takeup reel in a counter-clockwise direction to remove any slack in the tape.

   Be sure to set shut-off arm ⓚ in a straight up and down position.

LOCATION OF CONTROLS



TAPE TRANSPORT

① Power Switch (POWER)—turns power on or off.

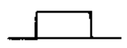
② Power Pilot Lamp.

③ Tape Speed Selector Switch (TAPE SPEED)—selects tape speed and appropriate equalizer circuit.

$7^1/_2$ position : $7^1/_2$ inches per second.

$3^3/_4$ position : $3^3/_4$ inches per second.

④ Tape Selector Switch (TAPE)—provides reduced tape tension when a $^1/_2$ mil base tape is used.

TAPE BASE	BUTTON POSITION
$1^1/_2$ mil 1 mil	
$^1/_2$ mil	

⑤ Automatic Reverse Switch (AUTO REVERSE, ON-OFF)—has to be depressed for automatic reverse with **TEAC *Phase-Sensing-System.***

⑥ Reverse Signal Record Button (AUTO REVERSE, SIGNAL RECORD)—has to be depressed for recording of automatic reverse signal by **TEAC *Phase-Sensing-System.***

⑦ Tape Transport Selector Switch—select tape operation.

▷: Forward Key

◁: Reverse Key

FAST: Fast wind Key

STOP: Stop Key

⑧ Record Button (RECORD)—energizes record and erase circuit.

⑨ Record Pilot Lamp.

⑩ Tension arm and Sensing Post – provides automatic reverse with sensing foil.

⑪ Index Counter indicates location of program on tape, reset to zero when button is pressed. This is a numerical reference only and is not calibrated in feet.

AMPLIFIER

⑫ Microphone Input Jacks (MIC)

⑬ Mic Level Control (MIC)

⑭ Line Level Control (LINE)

⑮ Level Indicator Meter for Left Channel

⑯ Level Indicator Meter for Right Channel

⑰ Record Channel Selector Switch (RECORD). Selects stereo or monophonic recording channel(s), also used for safety interlock to prevent accidenal erasure.

⑱ Monitor Selector Switch (MONITOR)

SOURCE Position: The input signal to be recorded can be monitored through headphones or a speaker system while the VU meter indicates the level.

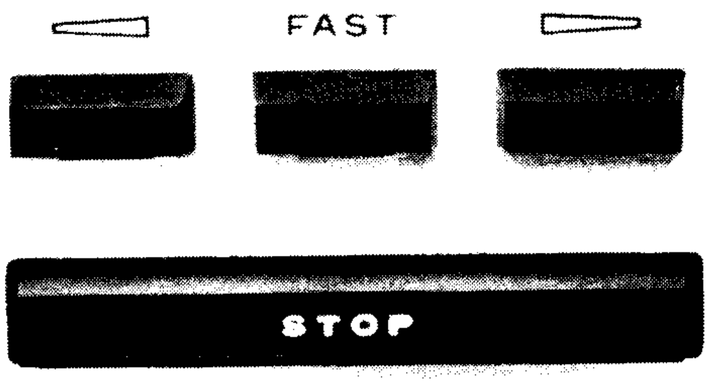
TAPE Position : During playback or while recording, recorded signal on the tape can be reproduced as above.

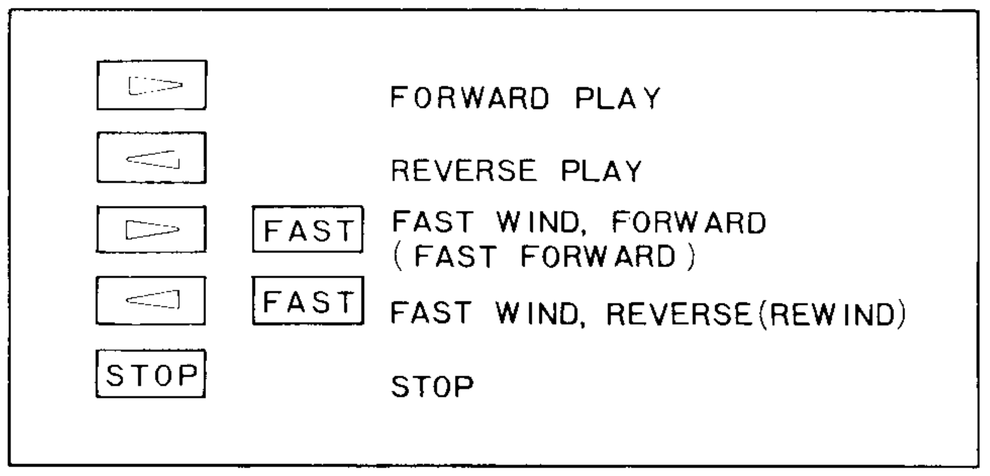
⑲ Output Level Control (OUTPUT)

NOTE: Level controls ⑬, ⑭ and ⑲ are dual potentiometers. The inner knob (left channel) is friction coupled with the outer knob (right channel) they can be operated together or separately.

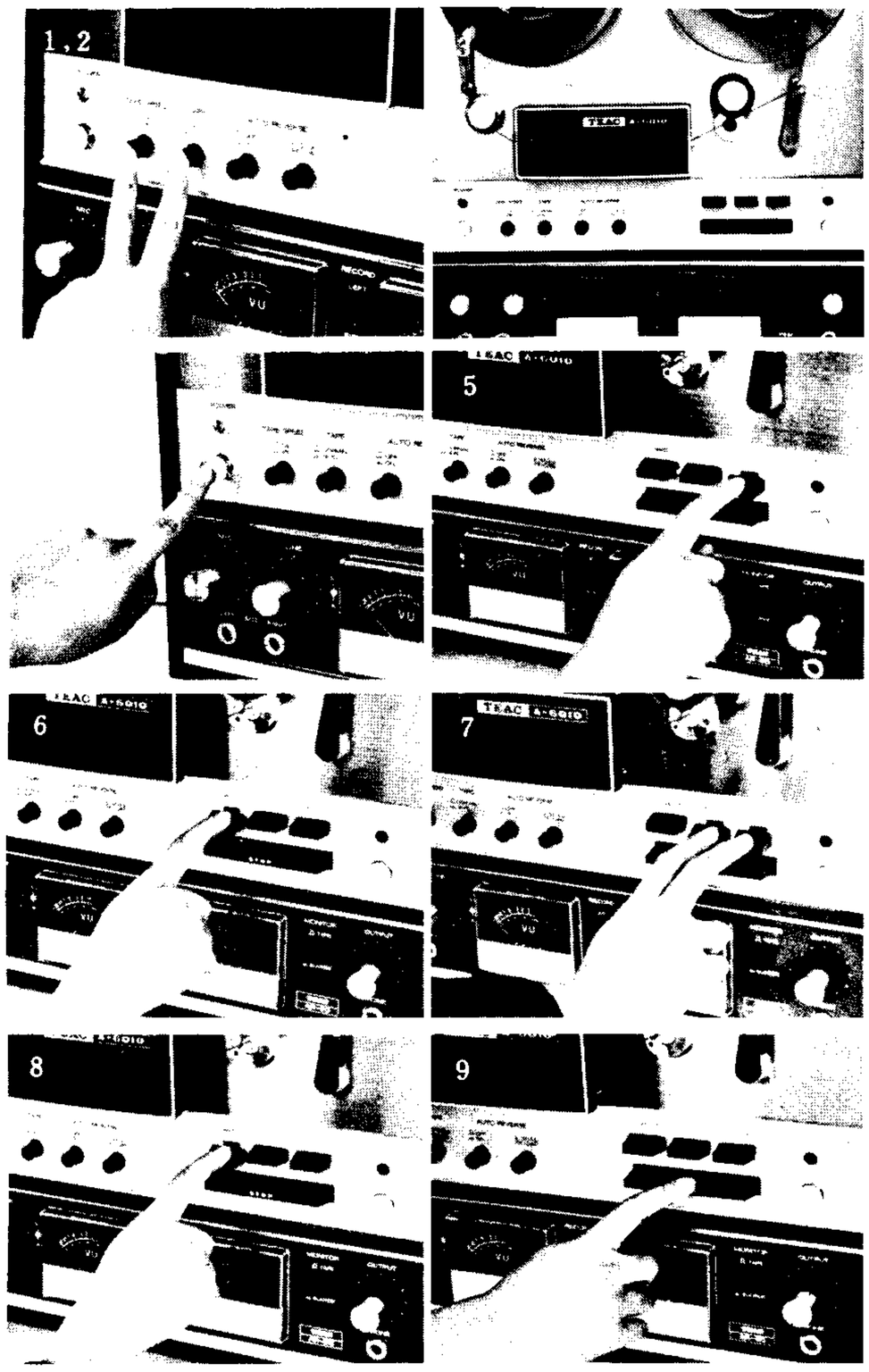
⑳ Headphone Jack (PHONE)

BASIC OPERATION OF CONTROLS

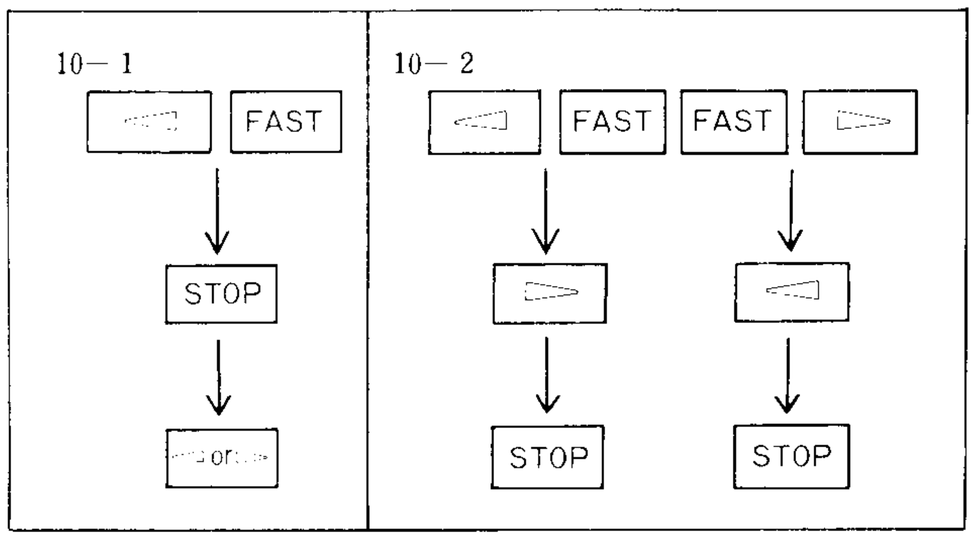




NOTE: Make sure you depress the control buttons fully, if positive contact is not made misoperation could result.



1. Set TAPE SPEED selector to $7^1/_2$ or $3^3/_4$ ips.
2. If the tape to be used is $^1/_2$ mil, press the TAPE selector switch.
3. Thread tape on the tape deck.
4. Press POWER switch button to turn on the tape deck.
5. Press ▷ (forward) key.
6. Press ◁ (reverse) key.
7. Press ▷ and FAST keys for fast winding operation.
8. Press ◁ key for rewind operation.
9. Press STOP key.



10. When stopping the tape from a FAST wind mode, it is recommended to press the reverse direction button then press the STOP button when the tape travel slows down. This procedure helps extend life of both the tape and equipment.

PLAYING A RECORDED TAPE

Type of recording that can be reproduced.

TRACK(S) : Full (single) track, Two (Half/Double) track monophonic, 4 track monophonic and stereophonic.

TAPE SPEED: $7^1/_2$ ips or $3^3/_4$ ips.

SETTINGS FOR STEREO AMPLIFIER SYSTEM

SYSTEM CONTROLS*	SETTING POSITION
INPUT (or SOURCE) SELECTOR	Select the proper position in accordance with your input source
TAPE MONITOR or TAPE RECORDER	RECORDER or ON
MODE SELECTOR	STEREO or MONO**

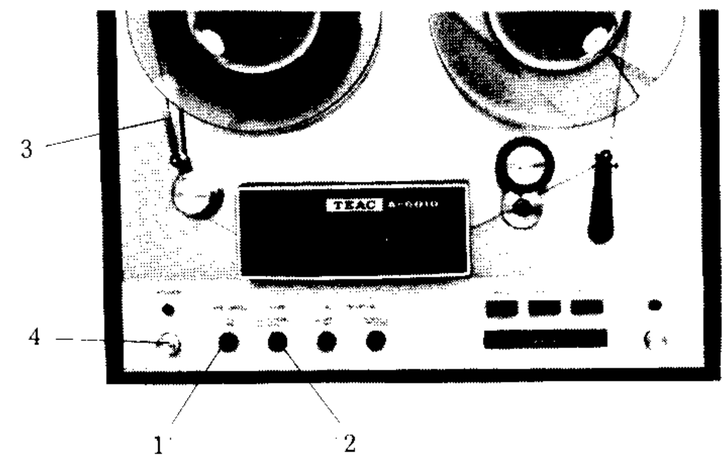
* If your stereo amplifier has different function controls, refer to the operating manual.

** When playing back 4 track monophonic recording, select left channel (or channel A) for tracks 1 and 4 and right channel (or channel B) for tracks 2 and 3.

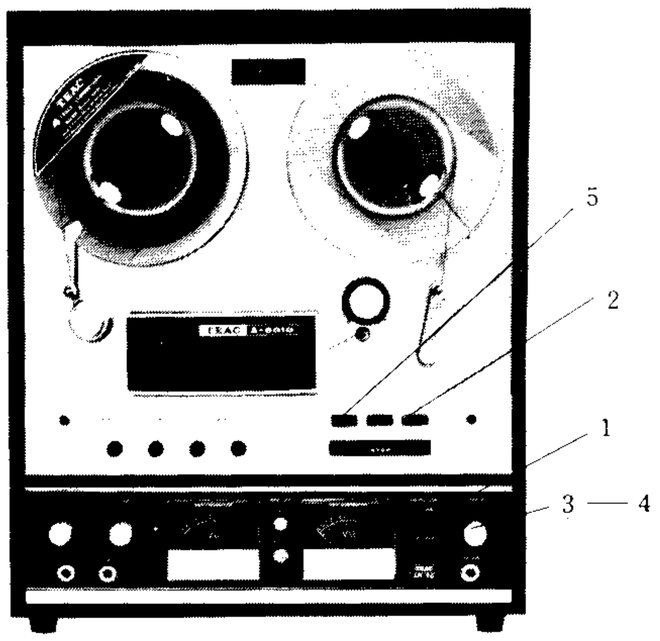
This mode selection is sometimes not available with your stereo amplifier. It all depends upon how the circuit of your equipment is designed.

SETTINGS FOR THE TAPE TRANSPORT

1. Set TAPE SPEED selector for the speed desired.
2. Set TAPE selector for the tape to be used.
3. Thread the tape.
4. Turn POWER on.



PLAYING A 4 TRACK STEREO RECORDED TAPE



1. Set MONITOR selector to TAPE.
2. Press ▷ key.
3. Gradually advance OUTPUT control clockwise until the meter pointers indicate 0 VU at the peaks of the program material.
   To balance the left and right channel levels, adjust one of the friction coupled knobs.
4. Adjust volume, tone controls etc., on your stereo amplifier system.
5. When the playback of tracks 1 and 3 is completed, press ◁ key to continue playing on tracks 4 and 2. For automatic reverse operation, refer to page 9.

PLAYING A MONOPHONIC RECORDED TAPE

1. Set MONITOR selector to TAPE.
2. Press ▷ key.
3. Gradually advance OUTPUT control (inner knob) clockwise until the meter pointer (LEFT) indicates 0 VU at the peak of the program material.
4. Adjust volume, tone controls etc., on your stereo amplifier system.

The standard procedure of playing 4 track monophonic recording with **A-6010** deck is as follows:

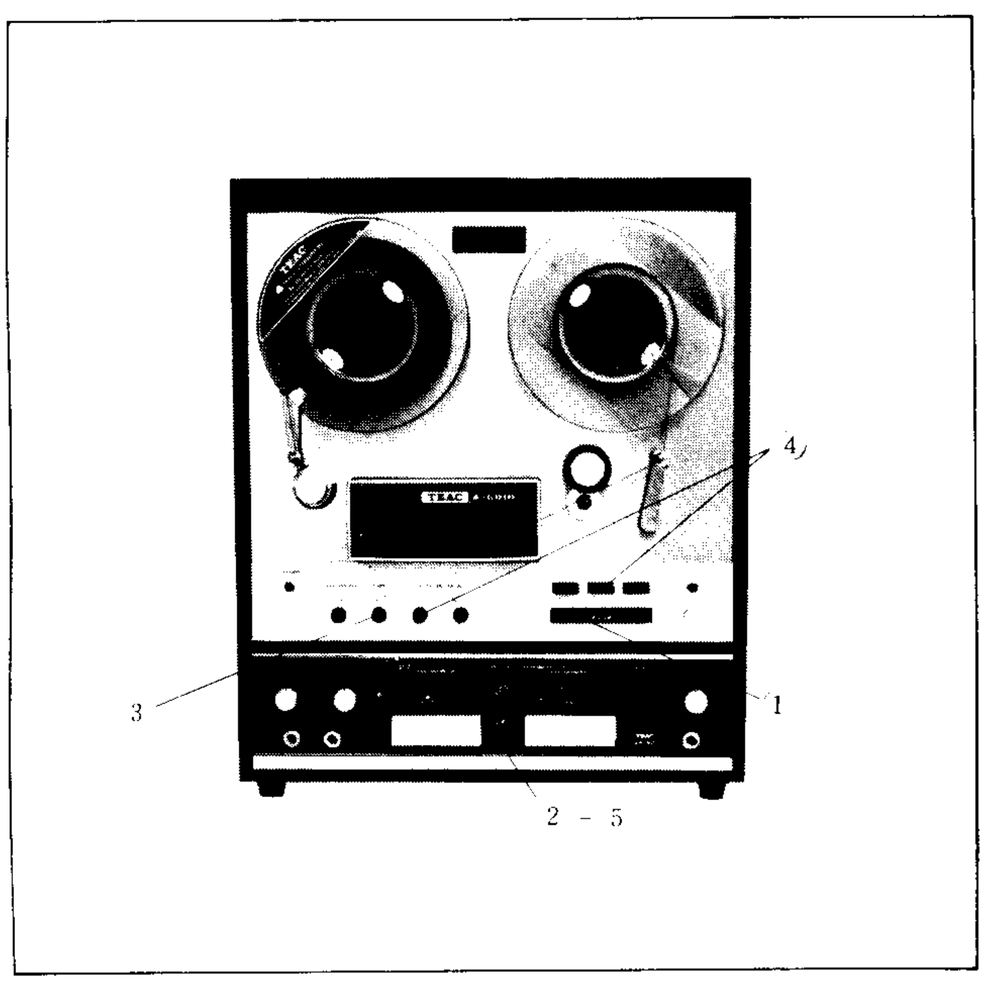
MONOPHONIC PLAYBACK PROCEDURE

	1st	2nd	3rd	4th
Track used	1	4	3	2
Direction of tape run	[illegible]	[illegible]	[illegible]	[illegible]
OUTPUT control knob	inner	inner	outer	outer
Level meter pointer	left	left	right	right
Playback output (LINE OUT jack)	left	left	right	right

AUTOMATIC REVERSE PLAY

The **TEAC A-6010** is an "Automatic Player". It is not necessary to turn the reel over to play both sides of a tape. At the end of one side the tape direction will automatically reverse and play in the opposite direction until it is wound back to the beginning.

MAKING TEAC AUTO REVERSE SIGNAL
(**TEAC** *Phase-Sensing-System*)



To prepare the tape for automatic reverse operation, record a signal on the end of the tape as follows:

1. Stop the tape at the point where you want to get the automatic reversing.
2. Press in RECORD channel selector (LEFT or both) of the amplifier.
3. Switch on AUTO REVERSE Switch.
4. Press AUTO REVERSE—SIGNAL RECORD button then press ▷ key for approximately one second while pressing SIGNAL RECORD button.
   The reverse signal is recorded on the tape while pressing the signal record button and ▷ key.
5. Switch off RECORD channel selector after the reverse signal is recorded.

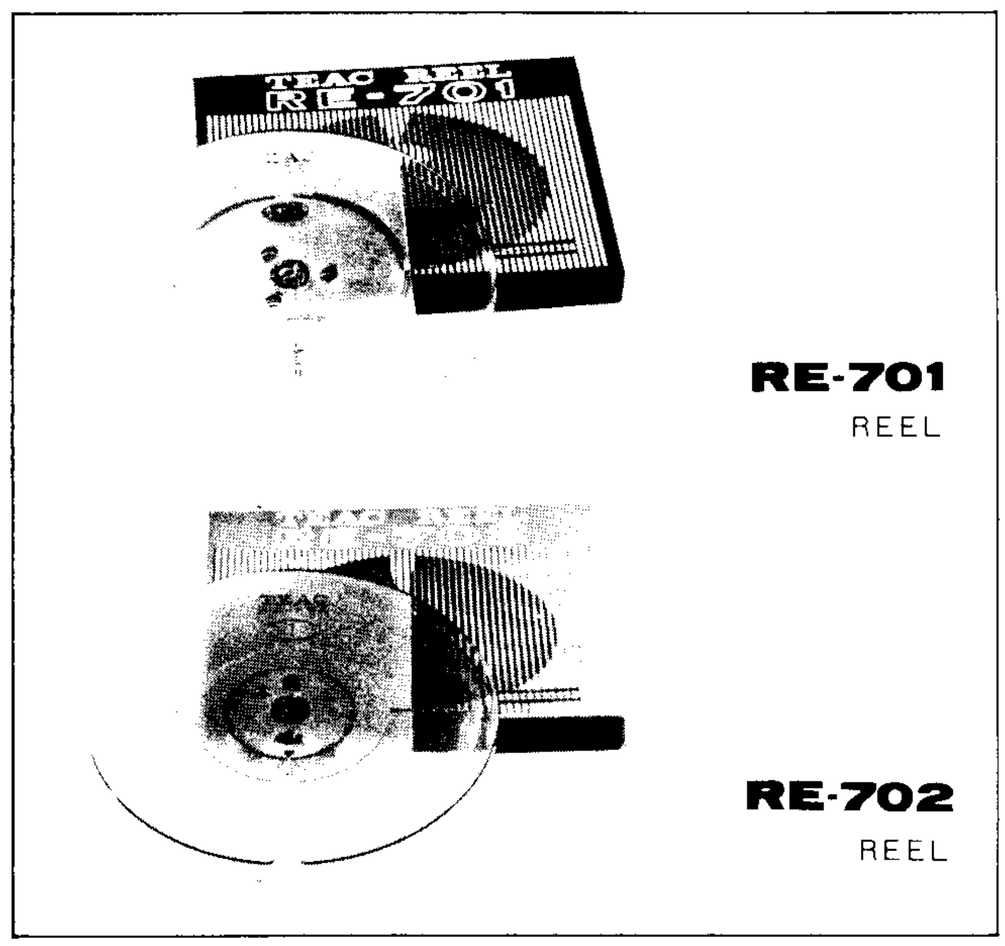
   NOTE: It is not necessary to press the record button.

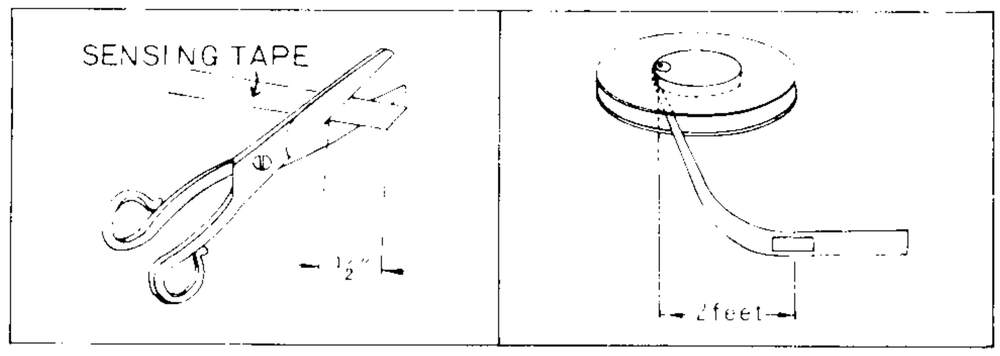
PLAYING TEAC AUTO REVERSE SIGNAL RECORDED TAPE

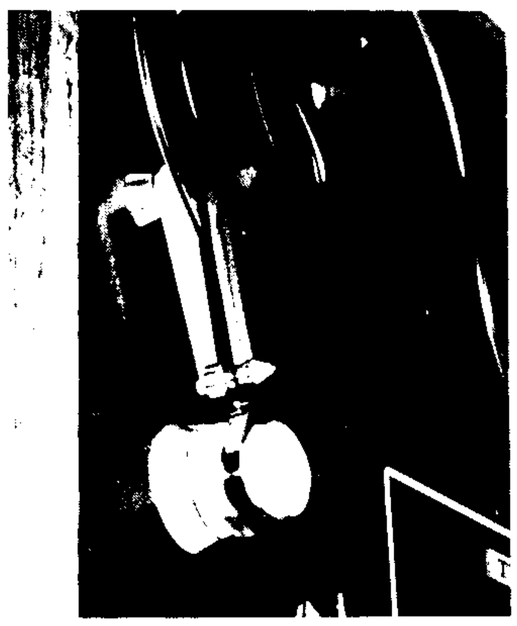
1. Switch on AUTO REVERSE switch.
2. Other operations are same as normal playback operation.
3. When signal reaches the record head, the tape direction will automatically reverse.

AUTOMATIC REVERSING BY SENSING FOIL

The **TEAC A-6010** can be automatically reversed with sensing foil.
Place a 3/4 inch piece of sensing foil at a position approximately 2 feet from the end, and on base side of the tape.







SENSING TAPE

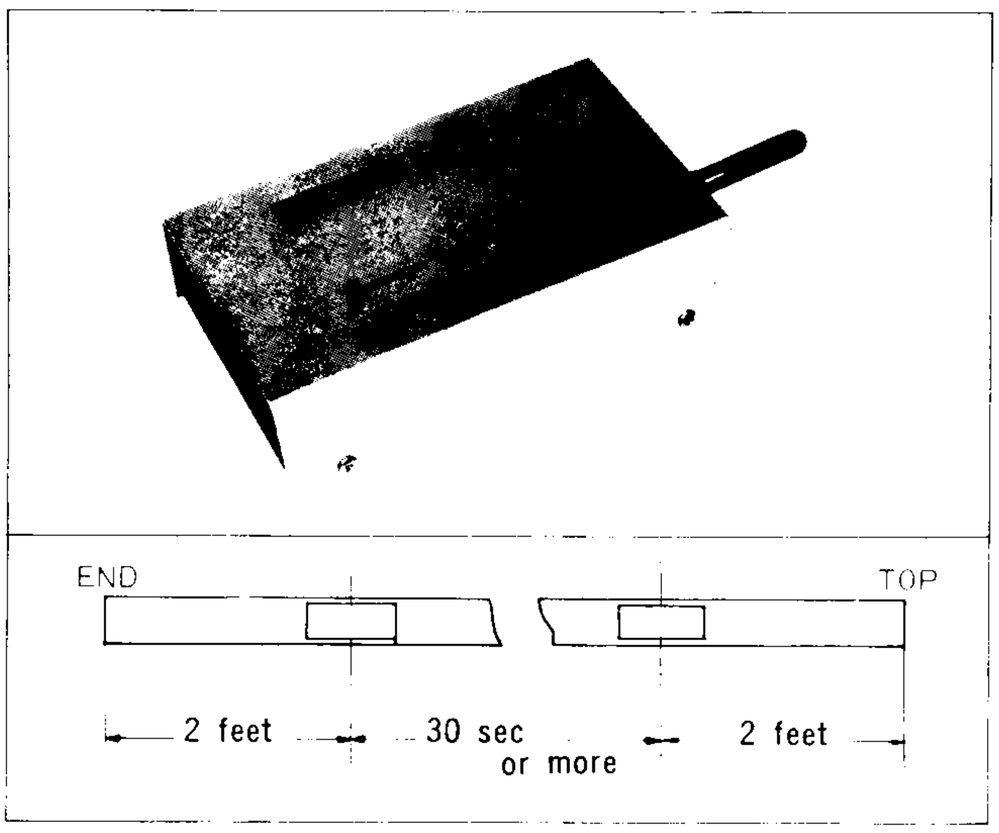
NOTE:

1. The recommended sensing foil is SCOTCH CONDUCTIVE SENSING TAPE TYPE # 51.
2. If the sensing foil is too long or too short functional failure may occur.
3. The sensing foil should be precisely centered on the bace side of the tape so that the adhesive on the foil does not appear at the edge of the tape.
4. If the position of the sensing foil is too close to the end the tape may become detached from the hub of the reel before reversing operation takes place.
5. If the sensing foil or the sensing post is dirty, proper reversing operation of the tape will be impaired.

Playing the tape.

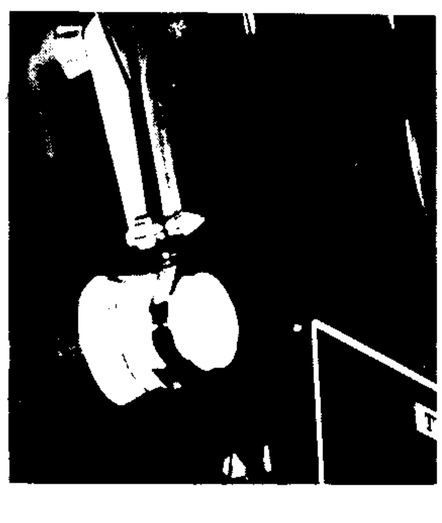
1. Switch off REPEAT switch on the rear panel of the tape transport.
2. Other operations are the same as normal playback operation.
3. When sensing foil passes the sensing post the tape direction will automatically reverse.

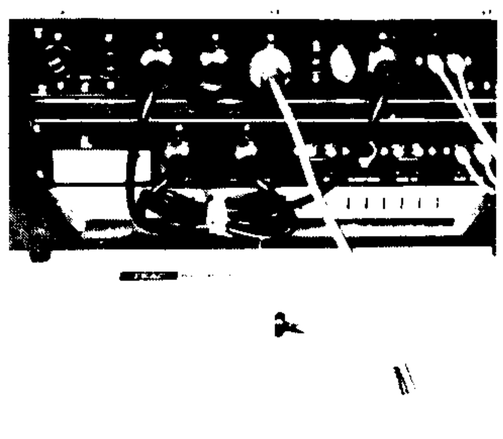
REPEAT PLAY



TEAC A-6010 can provide repeat play with an optional REPEAT CONTROL UNIT Model **RC-602** and the sensing foil.

1. Put the foil on the bace side of tape at two points which are approximately 2 feet from the beginning and end of the tape.
   * Refer to "AUTOMATIC REVERSING BY SENSING FOIL".
2. Remove the dummy plug from REPEAT receptacle on the rear panel of the tape transport, then insert plug of the repeat unit.
3. Switch on REPEAT switch.
4. Other operations are the same as for normal playback operation.
5. When the foil passes the sensing post at the end of the tape, the tape direction will automatically reverse.
6. When the foil passes the post at the beginning of the tape, tape direction will automatically return to forward play.
7. Until the **STOP** key is depressed, the tape will play repeatedly.





MAKING A RECORDING

The length of recording tape is determined by the reel diameter and thickness of the tape.
The recording time indicated in the chart below is for single travel of tape, therefore the total recording time is two or four times of that indicated depending on the method of recording.

The recommended tape for 4 track high fidelity recording is 1 mil or $1^1/_2$ mil base tape.
Polyester base tape is recommended for use in humid areas.

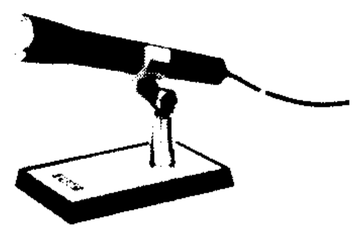
Either $7^1/_2$ ips or $3^3/_4$ ips tape speed can be selected. The higher speed provides the best fidelity but excellent fidelity recording can also be made at the low speed ($3^3/_4$ ips) which provides tape economy and longer playing time.

BASE	7 INCH REEL			5 INCH REEL		
	TAPE LENGTH	RECORDING TIME		TAPE LENGTH	RECORDING TIME	
		$7^1/_2$ IPS	$3^3/_4$ IPS		$7^1/_2$ IPS	$3^3/_4$ IPS
$1^1/_2$ MIL	1,200 FEET	30 MIN	60 MIN	600 FEET	15 MIN	30 MIN
1 MIL	1,800 FEET	45 MIN	90 MIN	900 FEET	23 MIN	45 MIN
$^1/_2$ MIL	2,400 FEET	60 MIN	120 MIN	1,200 FEET	30 MIN	60 MIN

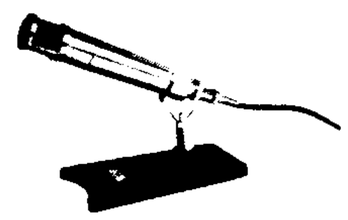
OPTIONAL ACCESSORIES

TEAC MICROPHONE (available at option)

MC-106: Dynamic type, Nondirectional, 10,000 ohms

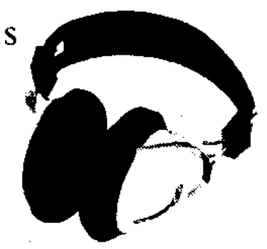


MC-105: Dynamic type, Unidirectional, 10,000 /600 ohms

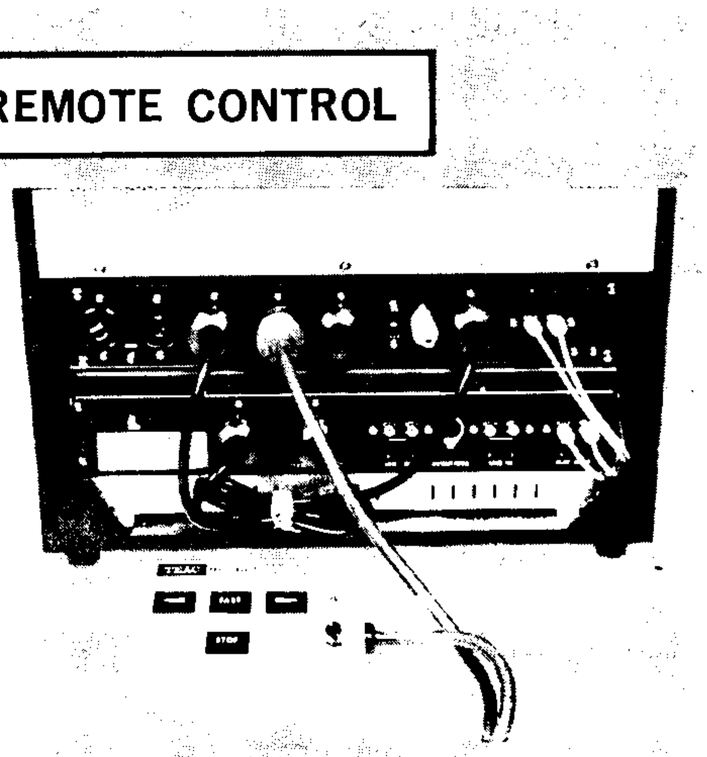


TEAC STEREO HEADPHONE

HP-101: Dynamic type, 8 ohms



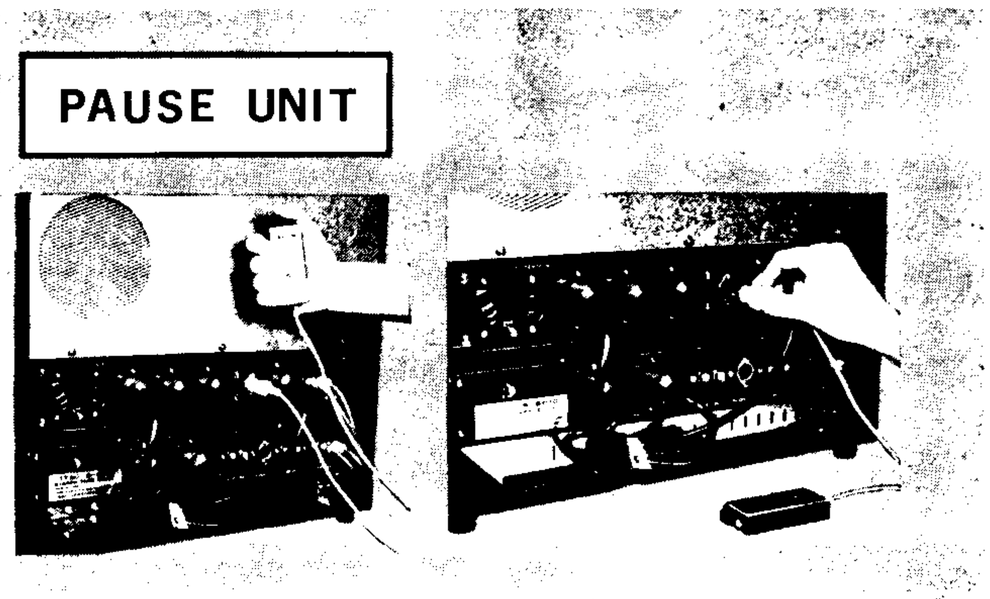
REMOTE CONTROL



TEAC A-6010 can be controlled from a distant location with an optional REMOTE CONTROL UNIT (Model **RC-601**).
The unit controls the deck for play and fast wind in both directions, stop, record and record indicator lamp.

1. Remove dummy plug from REMOTE receptacle.
2. Insert plug of remote control unit into the receptacle.

PAUSE UNIT

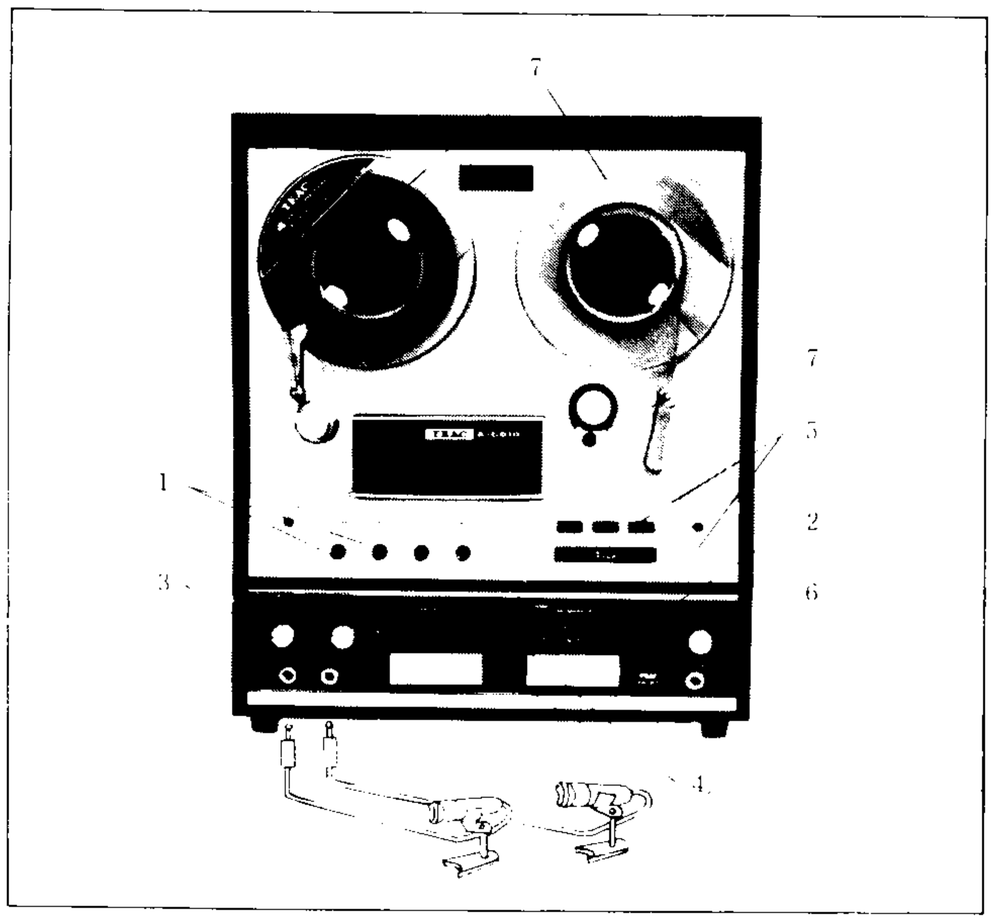


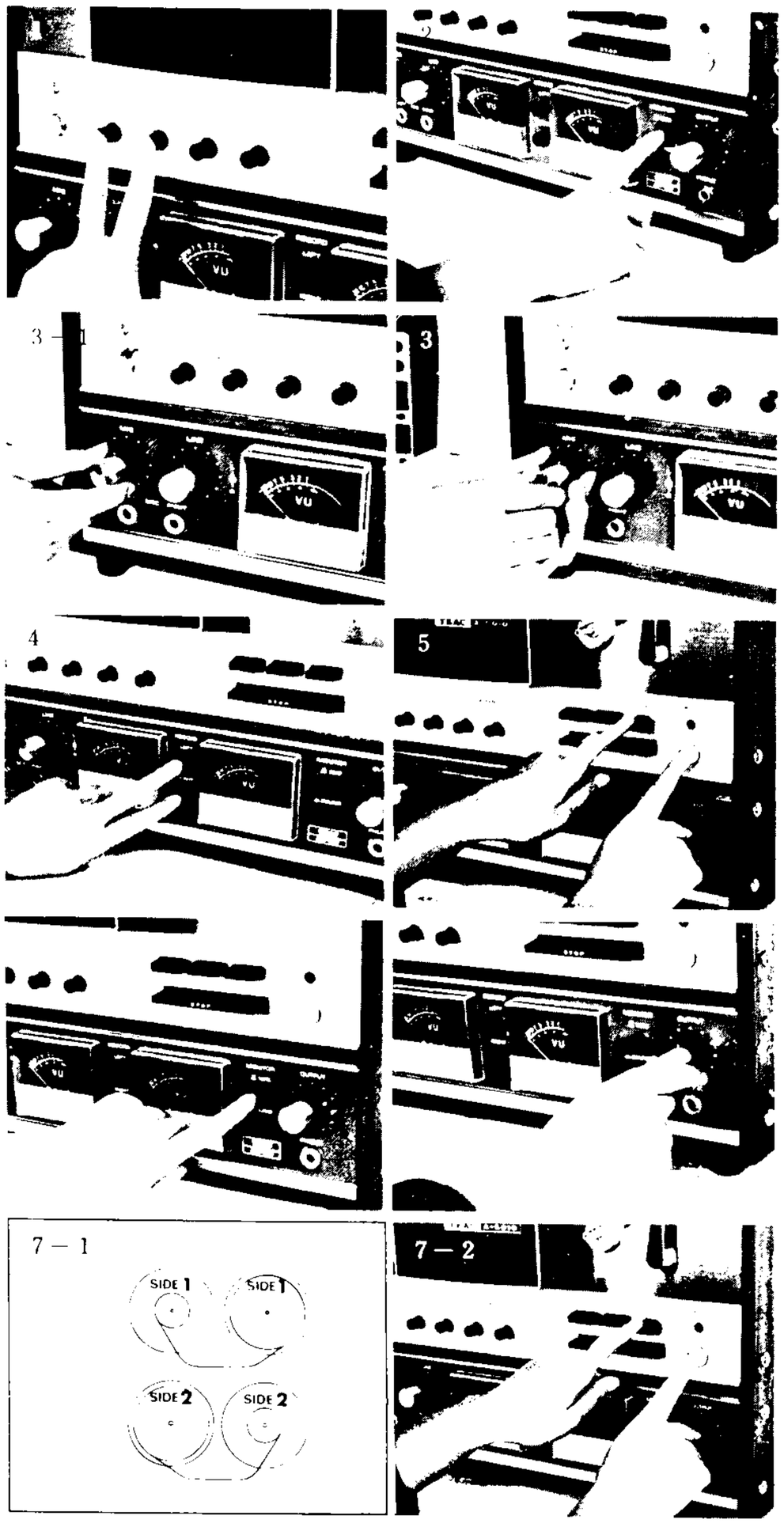
When frequent interruption of tape travel is required as in language study, editing or recording from a radio use of the RC-604 enables starting and stopping the tape deck in play or record mode.

1. Remove the dummy plug from pause connection on rear panel. Insert the Pause Unit plug.
2. Unless the Pause Unit button is depressed all modes of operation remain normal.
3. To interrupt tape travel when in the record or play mode depress the Pause Unit button. To restore tape travel release button.

Note 1—Be sure to replace dummy plug when removing Pause Unit.
Note 2—Do not operate the Pause Unit in the fast wind mode.

STEREOPHONIC RECORDING





Recording from Microphones.

Insert two microphone plugs in MIC jacks.
The recording level is controlled by the MIC Control.

Recording from Line Phono, Tuner, Tape, etc. ...

Connect the program source to LINE IN jacks (both L and R). Recording level is controlled by the LINE level controls. See page 4 for interconnection with DIN cord.

Microphone and Line Mixing.

Connect input sources to MIC and LINE IN jacks. Adjust recording level with respective controls.

Recording Procedures.

NOTE: Make sure the AUTO-REVERSE button is in the OFF position.

1. Set TAPE SPEED and TAPE selectors and thread the tape.
2. Set MONITOR selector to SOURCE.
3. Adjust MIC or LINE level controls both channels) while watching the level indicator meters. The meter pointers should be deflected to the 0 VU position on the loudest portion of the program material.
   Do not allow the pointer to deflect past this point as distortion in recording may result.

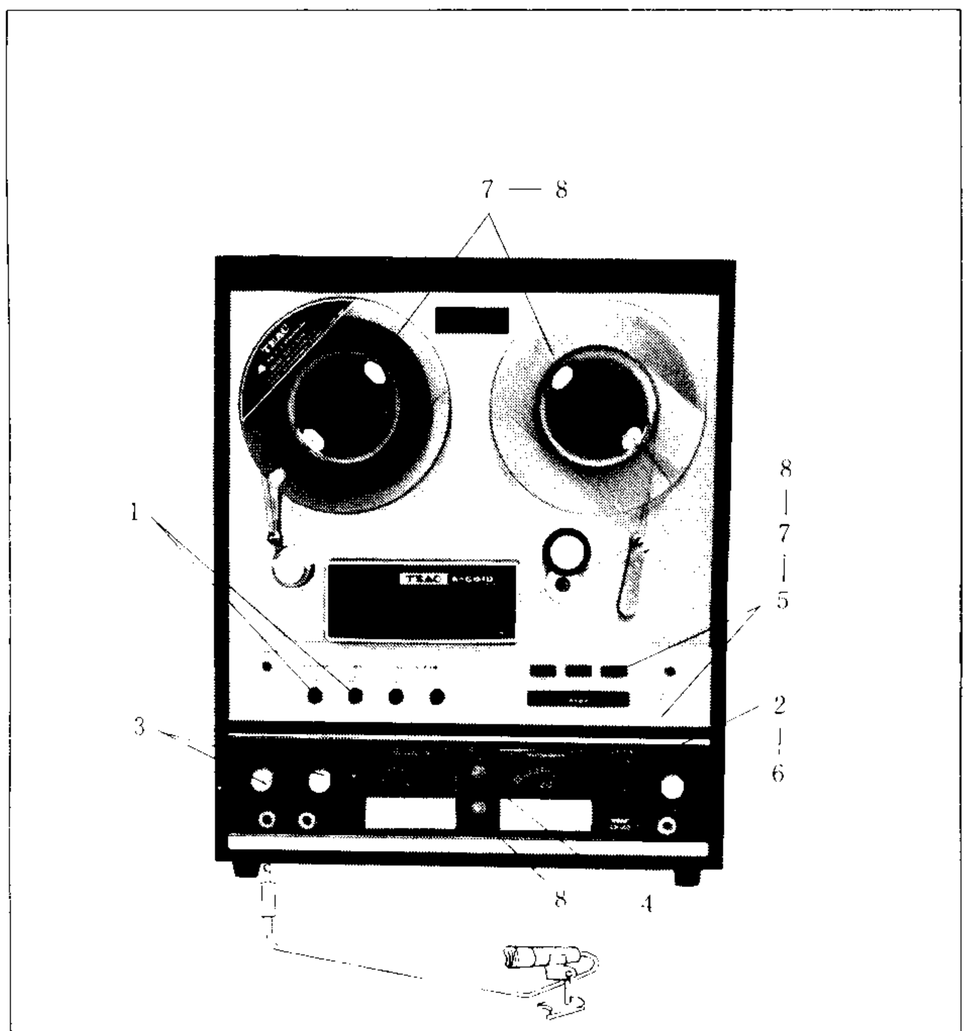
NOTE: If you wish to monitor while recording from the microphone, connect headphones. Turn off power amplifier or reduce volume to zero. Other wise sound from the speaker will be picked up by the micro phone (feedback) and spoil the recording.

4. Press RECORD channel selector both LEFT and RIGHT.
5. Press RECORD button then press ▷ key while pressing RECORD button.

NOTE: For setting record level, always adjust MIC or LINE control knob with MONITOR selector in SOURCE position.

6. Switch MONITOR selector to TAPE position for monitoring recorded program while recording.
7. After the recording on tracks 1 and 3 are completed, tracks 4 and 2 can be recorded simply by turning the reels over.

MONOPHONIC RECORDING



Recording from Microphone.

Insert microphone plug in the MIC (LEFT) jack. The recording level is controlled by Left channel (inner knob) MIC control.

Recording from Line (Phono, Tuner, Tape etc. ...)

Connect the program source to LINE IN (L) jack. Recording level adjustment is made with the Left channel (inner knob) LINE Control.

Microphone and Line Mixing.

Connect input sources to MIC (LEFT) and LINE IN (L) jacks. Adjust recording level with respective controls.

Recording Procedures.

NOTE: Make sure the AUTO–REVERSE BUTTON is OFF.

1. Set TAPE SPEED and TAPE selectors.
2. Set MONITOR selector to SOURCE.
3. Adjust left channel MIC or LINE level control so that indicator meter (left) deflects to 0 VU on the loudest portion of the program.

NOTE: If you wish to monitor while recording from the microphone, care should be taken to avoid feedback as described in "STEREOPHONIC RECORDING".

4. Press RECORD channel selector (LEFT).
5. Press RECORD button then press key while pressing RECORD button.
6. Switch MONITOR selector to TAPE position for monitoring recorded program while recording.

NOTE: For setting record level, always adjust MIC or LINE control knob with MONITOR selector in SOURCE position.

7. After the recording on track 1 is completed, track 4 can be recorded simply by turning the reels over.
8. Track 3 is recorded next, with the full reel again on the left reel turntable.
   But this time RECORD channel selector (RIGHT) is depressed and signal inputs are transferred to right channel.
   The completion of the program may be recorded on track 2 by again turning the reels over.

NOTE: If two microphones are available, they may be plugged into the two inputs so that the input connection need not be transferred when switching between the various tracks.

The chart to the left will be helpful in making four track monophonic recordings.

Recording	1st	2nd	3rd	4th
Track	1	4	3	2
MIC or LINE IN jack	L	L	R	R
Left reel turntable	S*	T	S	T
Right reel turntable	T**	S	T	S
MIC or LINE level control	Inner	Inner	Outer	Outer
RECORD channel selector	LEFT	LEFT	RIGHT	RIGHT
Level indicator meter	left	left	right	right
OUTPUT level control	Inner	Inner	Outer	Outer
LINE OUT jack	L	L	R	R
Headphone	Left	Left	Right	Right

* S: Supply reel ** T: Takeup reel

INSTANT OFF-THE-TAPE MONITORING

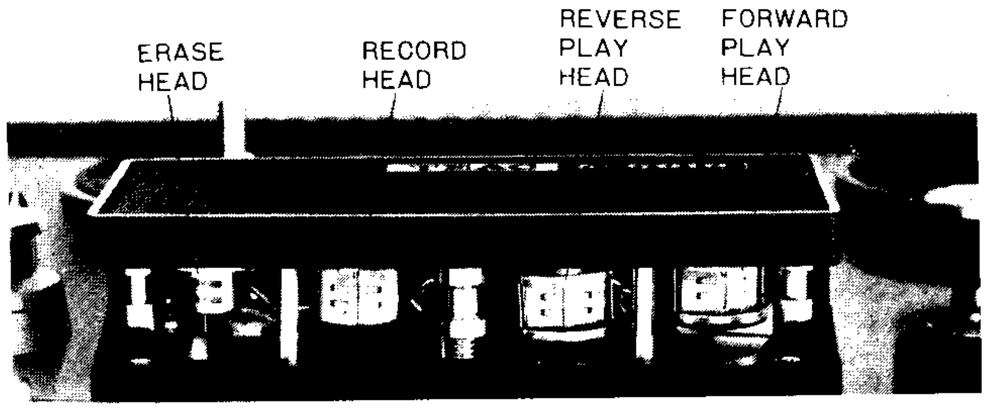
While you are recording, the original signal from the program source and the recorded signal can be almost simultaneously compared one another by MONITOR switch, through your headphones or monitor speakers. When MONITOR switch is set to SOURCE position, you will hear the input signal from the program source that you are going to record. (VU meters show the levels of incoming signals) When you set the switch to TAPE position, you are now listening the result of your recording as the output signal. (VU meters now show the levels of the recorded signal) This is possible with **TEAC A-6010**, because a forward playback head is installed right next to a separate recording head, (Remember most of the tape recorders on the market has just a single head for recording and playback and simultaneous operation of recording and playback is physically impossible) and playback is always activated simultaneously to recording.

Thus, you can monitor the recorded signal about 0.15 second after recording (at $7^1/_2$ ips) without interruption of recording function.

ERASING

The arrangement of heads when viewed from front is shown in photo below

The erase head is energized during recording operation to automatically erase the program previously recorded and the new program is recorded by the following record head.



To erase a tape without recording a new program, simply turn MIC and LINE level control knobs fully counterclockwise and operate the equipment for recording.

In the event that it is desired to completely erase the tape prior to recording (to insure quiet margins, leaders, unused tracks). **TEAC** Model **E-2** Bulk Eraser may be used.

Partial Erasing

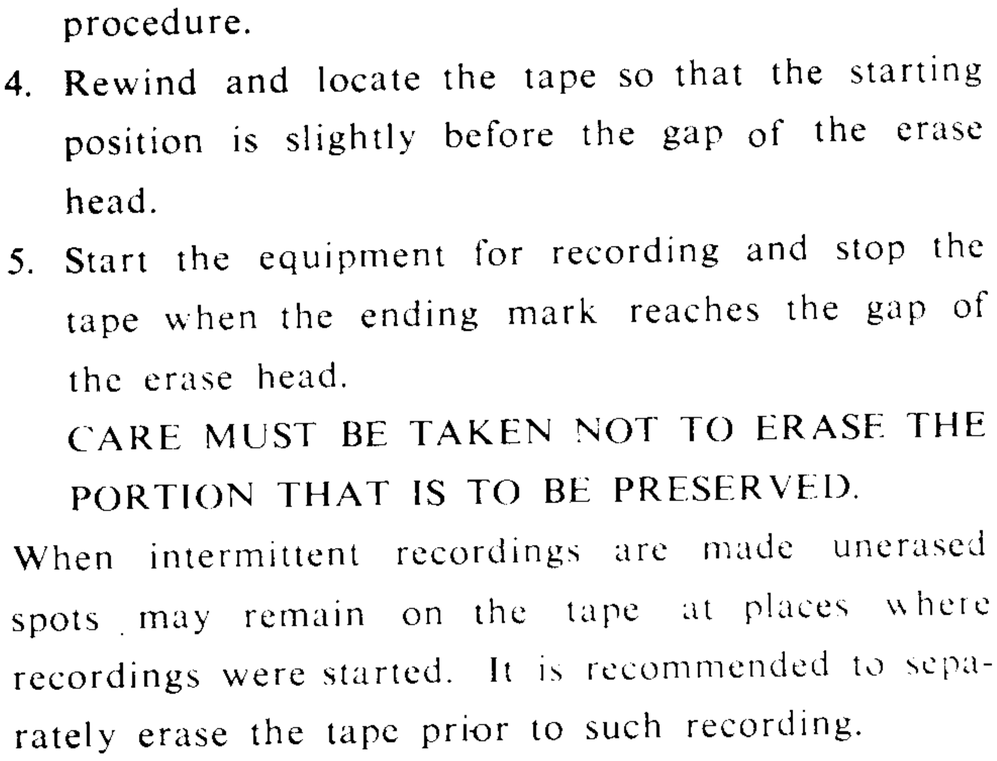
1. Locate the desired portion to be erased.
2. Mark the starting position of the portion at the gap of the forward playback head, using a grease pencil, water-base sign pen etc.
3. Mark the ending position of the portion in similar procedure.
4. Rewind and locate the tape so that the starting position is slightly before the gap of the erase head.
5. Start the equipment for recording and stop the tape when the ending mark reaches the gap of the erase head.
   CARE MUST BE TAKEN NOT TO ERASE THE PORTION THAT IS TO BE PRESERVED.

When intermittent recordings are made unerased spots may remain on the tape at places where recordings were started. It is recommended to separately erase the tape prior to such recording.

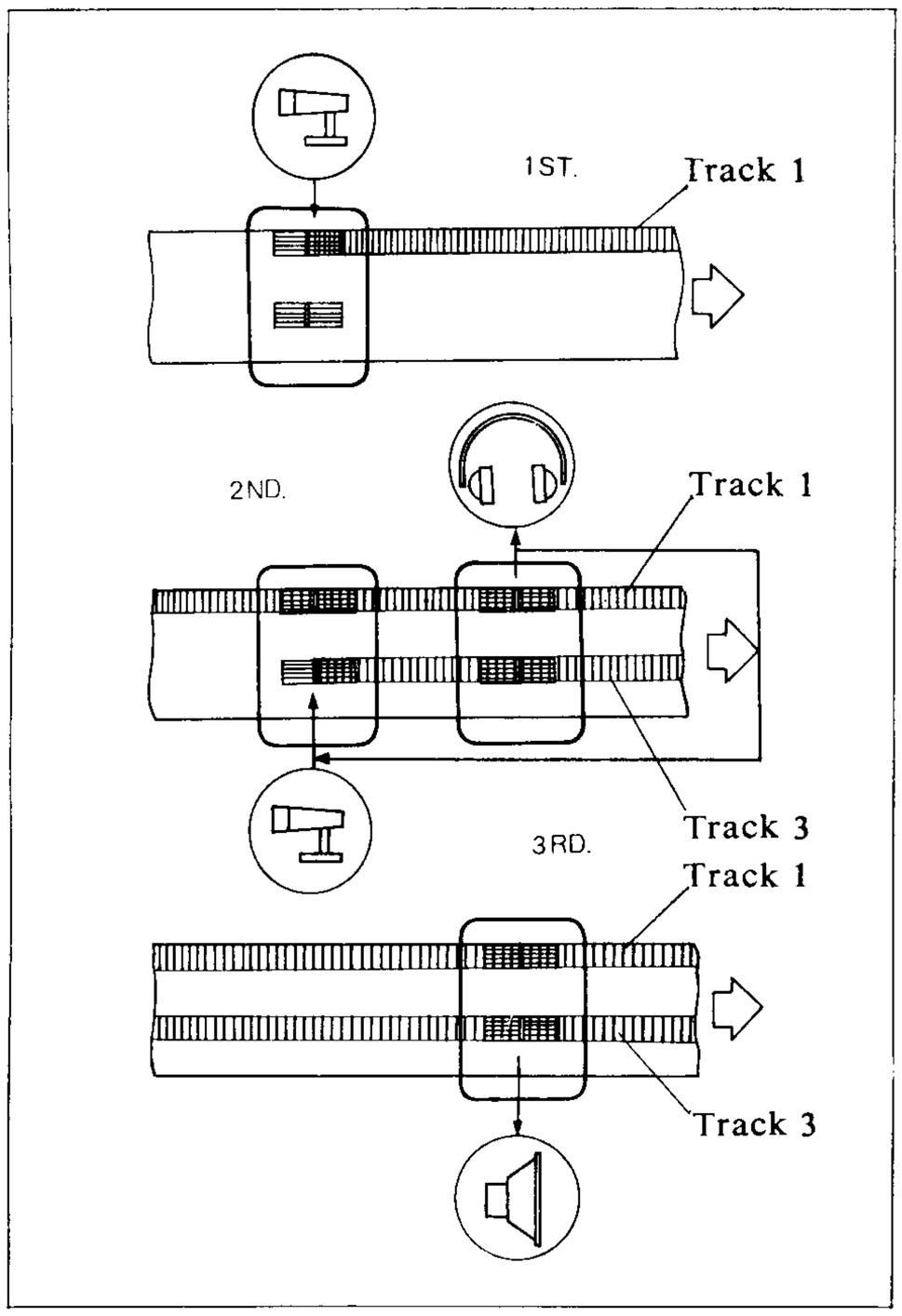
MAKING SPLICES

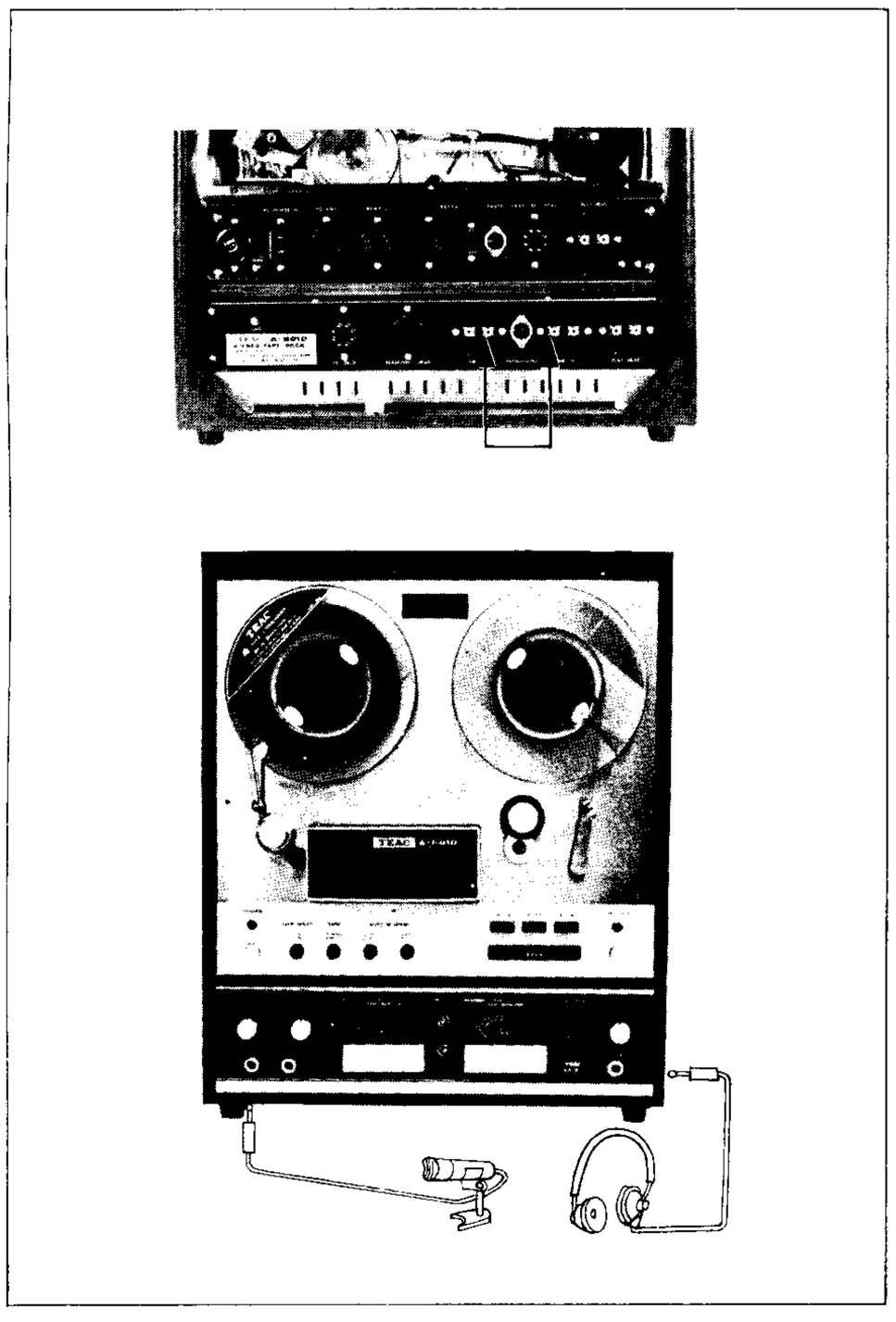
1. Overlap the two ends of the tape and cut them at approximately a 60 degree angle. Align both ends with the bace side up.
2. Cover the aligned ends with splicing tape and press firmly.
3. Trim excess of the splicing tape, cutting into the recording tape slightly.

NOTE: 1. Demagnetize scissors with bulk eraser or head demagnetizer before using for splicing.
2. Do not use conventional adhesive tape for splicing.



SOUND ON SOUND/LANGUAGE TRAINING



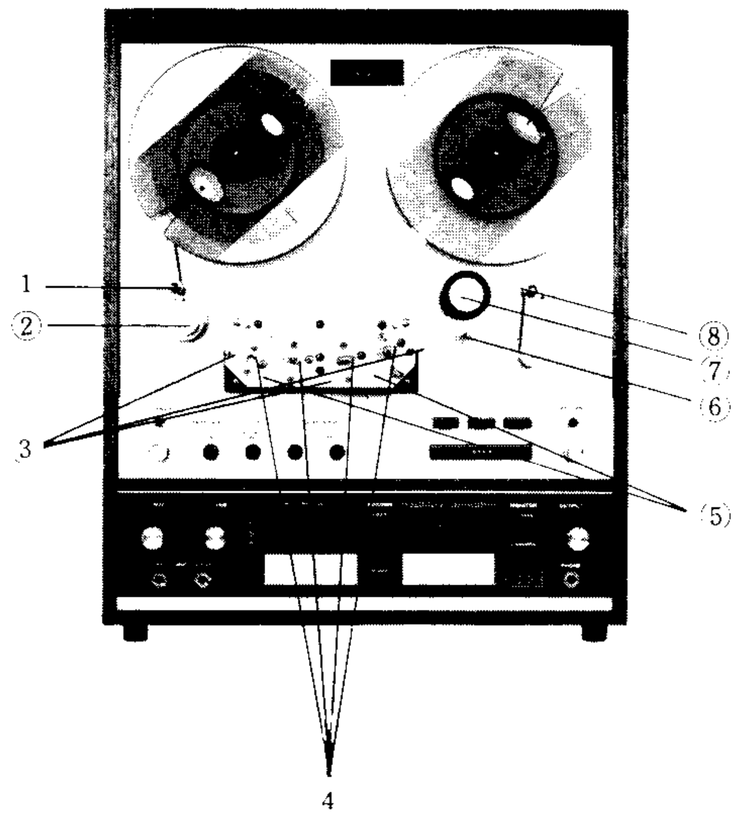


A multiple recording can be made on track 3 (right channel) by mixing the input from a microphone with the reproduced output from a previous recording on track 1 (left channel).
This is a particularly useful function for such application as "Language Training" or "Sound-with-Sound".

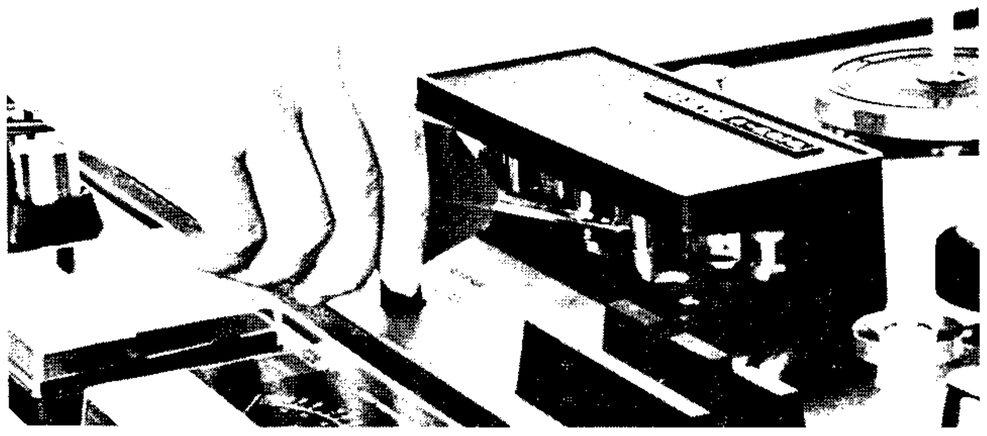
1. Reset the index counter to zero.
2. Make monophonic recording on track 1 with basic material such as music, instructor's speech etc.
3. While recording, slide monitor selector to tape and adjust playback level control (inner) so that the meter pointer indicates 0 VU for the material being recorded.
4. Rewind tape to the starting position of the recording.
5. Connect LINE OUT - L and LINE IN - R with a patch cord.
6. Insert the headphone plug into the PHONE jack, and the microphone plug into MIC (RIGHT) jack.
7. Start tape for monophonic recording on track 3.
8. While monitoring the playback sound with headphones (Left), make the mix recordings on track 3 by adjusting MIC and LINE level controls.
9. When the recording is completed, rewind the tape and playback through the right channel (track 3) If the results are not satisfactory, a second or third "TAKE" may be made, since the original recording has been preserved on track 1.

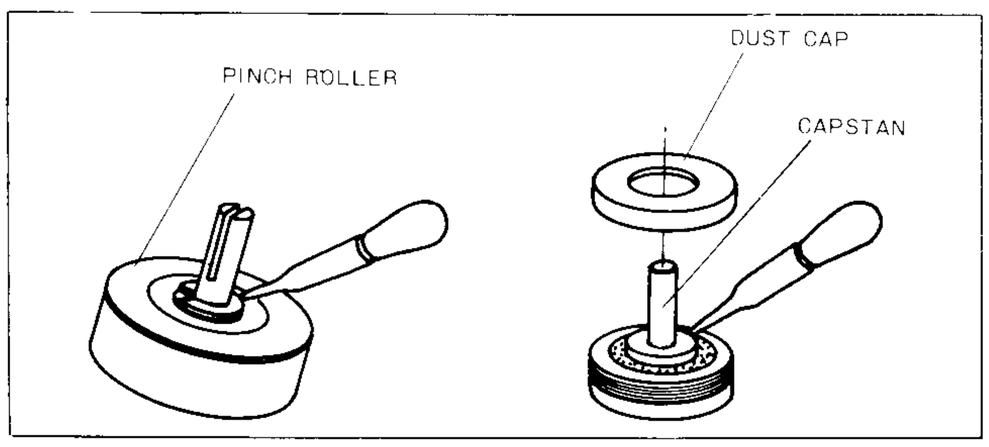
Recording	1st	2nd	Playback
MIC or LINE IN jack	L	R	L
MIC or LINE level control	L	R	L
·MONITOR selector	SOURCE	TAPE	TAPE
Level indicator meter	LEFT	RIGHT	LEFT
RECORD channel selector	LEFT	RIGHT	LEFT
OUTPUT level control	L	L	R
Headphone	Left	Left	Right

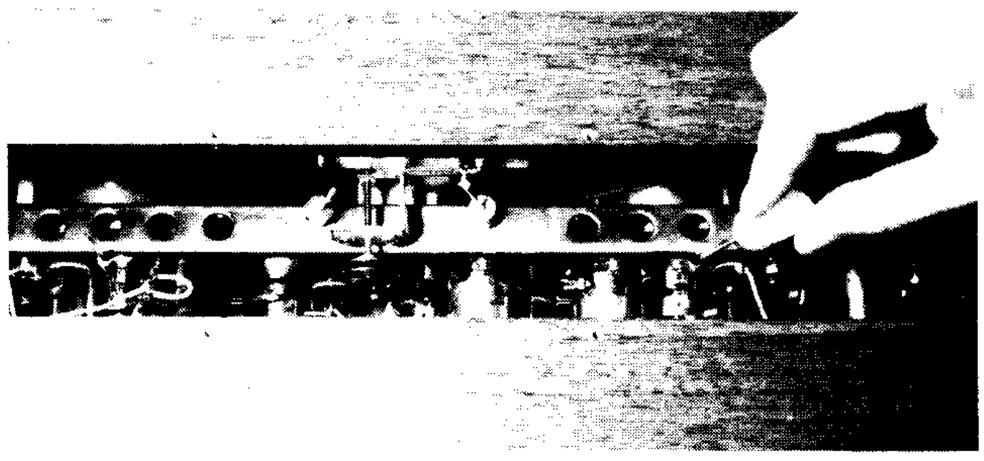
MAINTENANCE



①Tension arm and sensing post
②Stabilizer roller
③Tape guide
④Heads
⑤Lifter
⑥Capstan
⑦Pinch roller
⑧Guide post of Shut-off arm







CLEANING

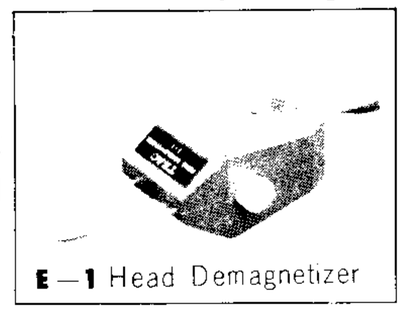
To prevent the loss of high frequency response or insufficient erasure, the heads should be cleaned frequently under average operating conditions. Cleaning the heads after each eight to ten hours of use will insure against the loss of high frequency response. To clean the heads moisten a clean, lint free cloth with **TEAC TZ-251A** HEAD CLEANER. Carefully wipe the face of each head and the guide components illustrated to remove all traces of dirt and magnetic oxide deposits.

Please use **TEAC TZ-251B** RUBBER CLEANER for cleaning the rubber pinch roller.

Please use **TEAC TZ-252B** POLISHER for cleaning the panel and cabinet case.

DEMAGNETIZATION

The tape heads should be demagnetized at least once in every 50 hours of operation to maintain the best possible performance of the equipment and to prevent the possibility of gradual deterioration of your prerecorded tapes.



E—1 Head Demagnetizer

1. Turn the equipment off.
2. Attach protective covering on tip of **TEAC** model **E-1** head demagnetizer.
3. Energize demagnetizer.
4. Place the tip of the demagnetizer against upper pole pieces of head, slowly move the tip downward toward lower pole pieces of the head. Alternate between the two set of pole pieces while slowly withdrawing the demagnetizer.
5. Repeat this process on each of the heads.
6. Remove power from the demagnetizer when it is at least one foot away from the equipment.

NOTE: Do not allow the demagnetizer to come in close proximity with the level indicator meter, as permanent damage to the meter may result.

LUBRICATION

The following parts should be lubricated after approximately 1000 hours of operation, or at least once a year with **TEAC TZ-252A** OIL.

Capstan Shaft.....2 drops
Remove the dust cap by turning counterclockwise and wet oil chamber.

Pinch Roller Shaft.....1 drop
Pull off the pinch roller and lubricate the shaft.

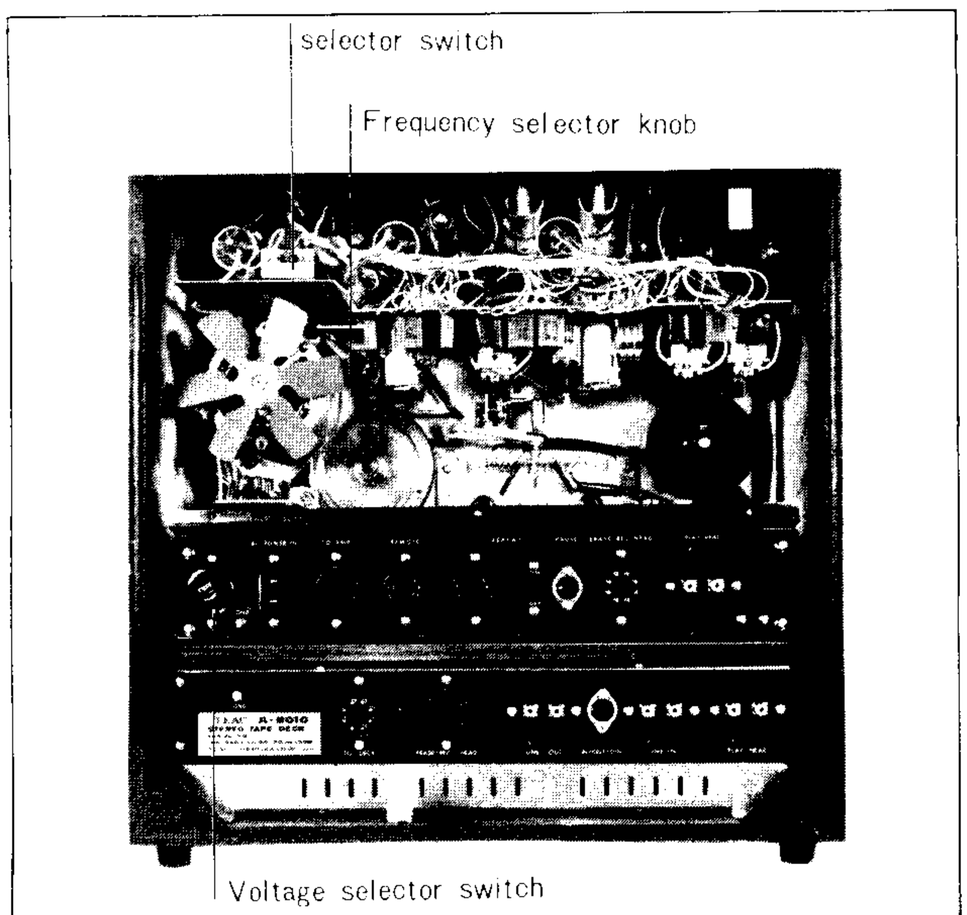
Motors (three).....approximately 1 cc for each bearing, or 0.5 cc when the equipment is not frequently used.

NOTE: 1. Wipe off any oil from rubber parts and drive belt with cloth dampened with alcohol.
2. Lubricate the equipment immediately after operation while it is warm.

VOLTAGE AND FREQUENCY CONVERSION

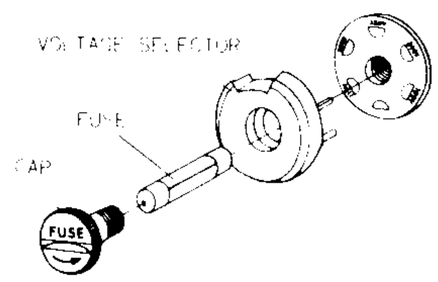
The equipment is normally adjusted to operate on an electric power source of the voltage and frequency specified on the reel tag and packing carton.

If it should be necessary to convert the **A-6010** deck to operate from a power source of different voltage or frequency, it may be easily accomplished as follows:



VOLTAGE CONVERSION:

The **A-6010** may be set for 100, 117, 200, 220 or 240 volts. To change the voltage unscrew the fuse in the center of the voltage selector plug. Pull out the plug and reinsert it so the desired voltage shows in the cutout. Reinstall the fuse.



FREQUENCY CONVERSION

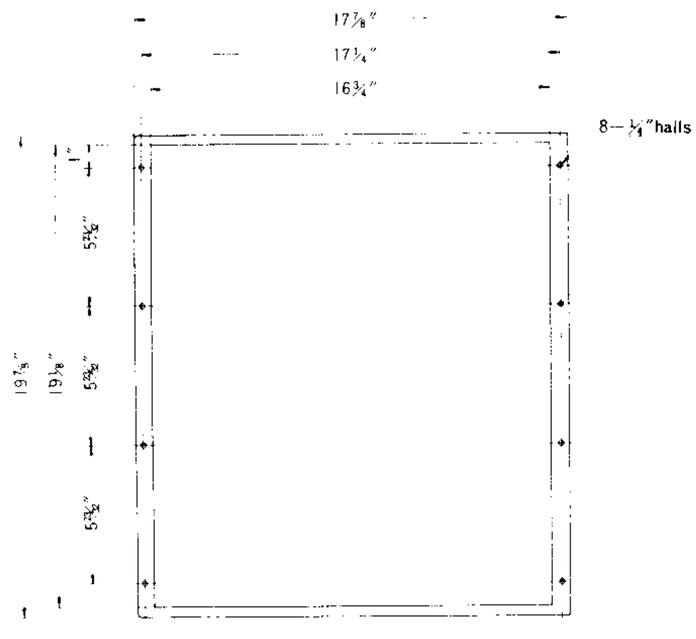
The conversion can be made in the following manner.

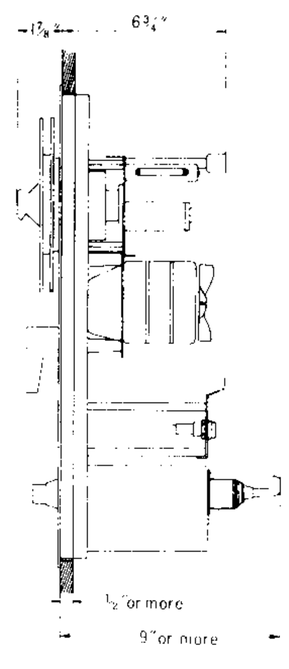
1. Disconnect the power cord and remove the rear cover of the deck.
2. Set frequency selector switch (capacitor change) in the rear of the tape transport to the required frequency.
3. Turn the motor fan several times in counter clockwise by hands and push the knob next to the motor, in for 50 Hz or pull it out for 60 Hz operation. This knob moves the drive belt to the desired motor pulley.

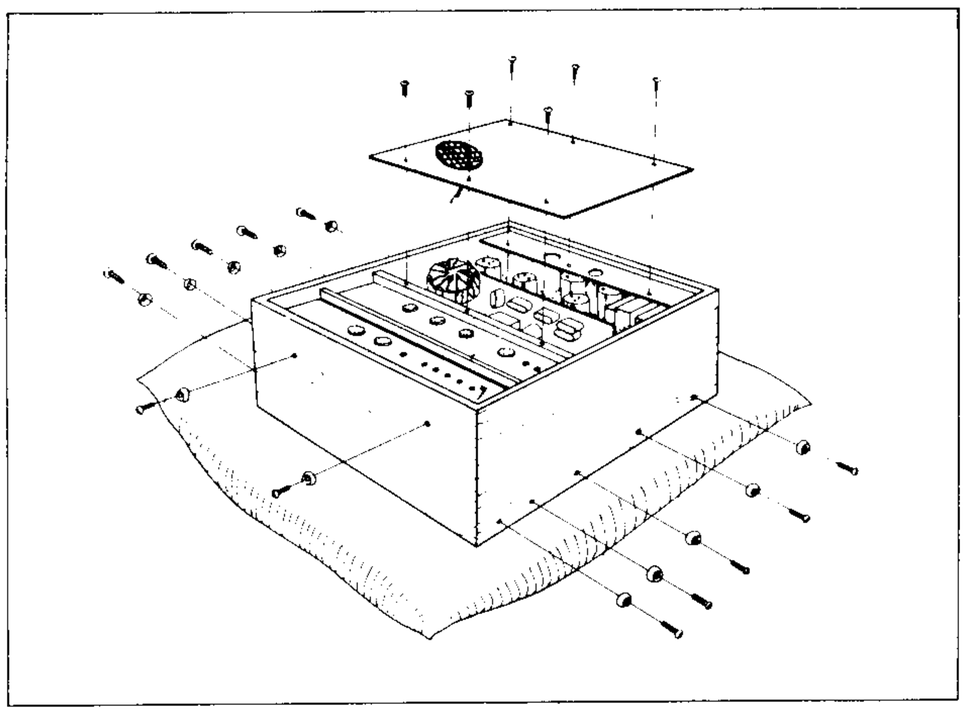
NOTE: At the rear of the cycle change lever there is a set screw with red washer. Loosen this setscrew before cycle change and tighten after cycle change.

CUSTOM MOUNTING

TEAC A-6010 can be readily mounted into a custom cabinet with the panel mounting kit.







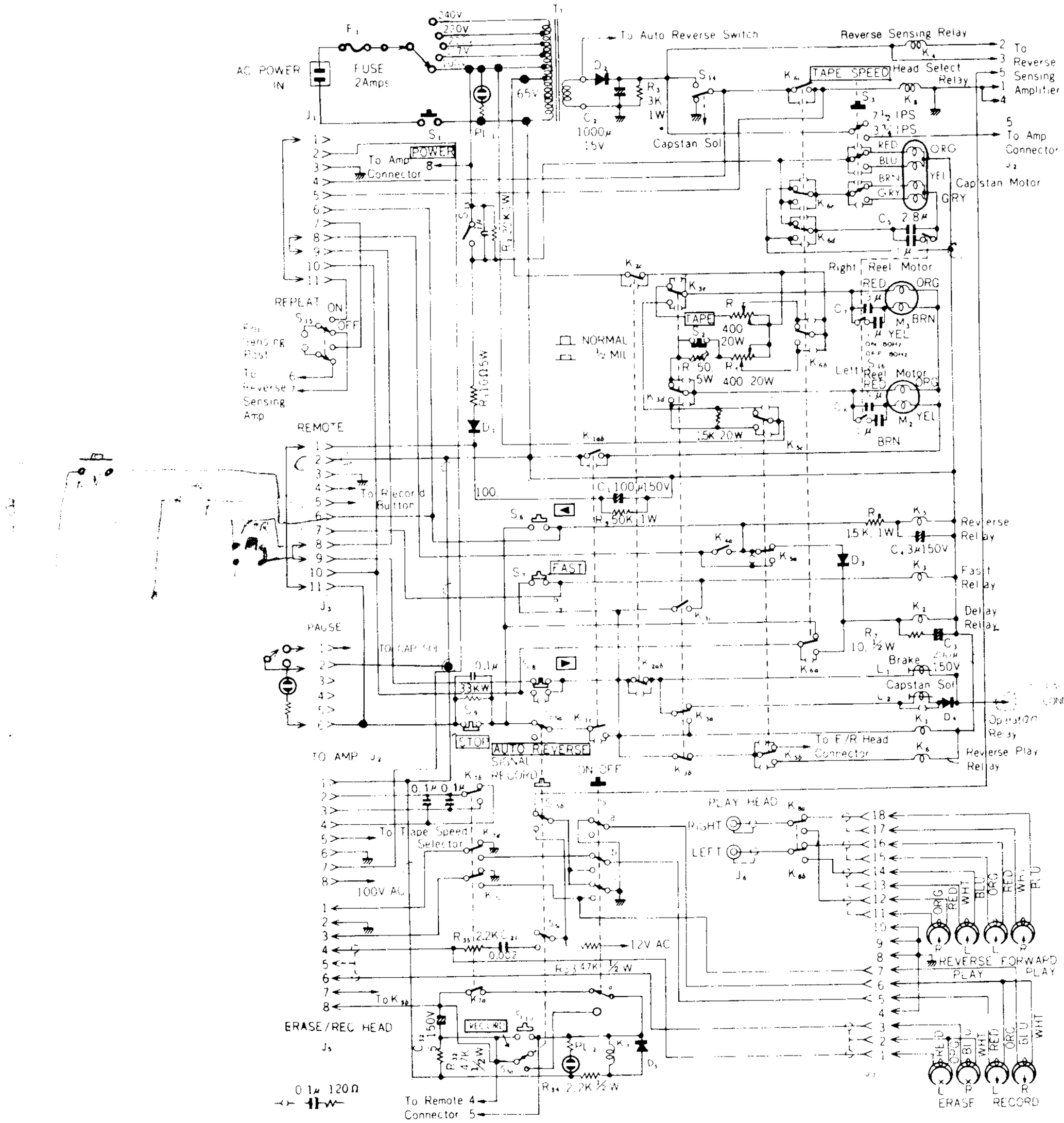
REMOVING THE EQUIPMENT FROM CASE

Tape Transport:

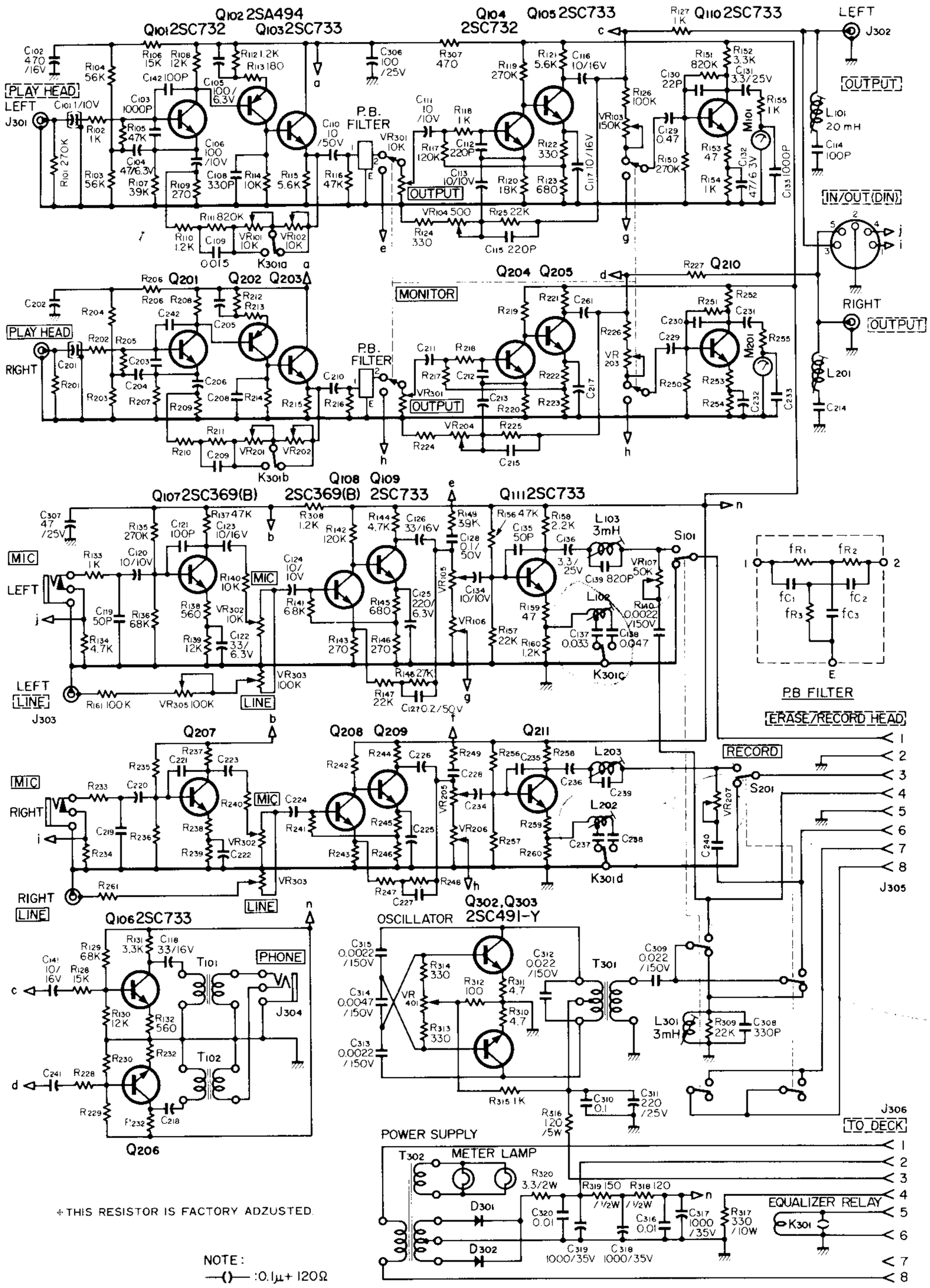
1. Remove power cord and other connecting cords.
2. Lay the equipment face down on a soft mat.
3. Remove the 6 rear cover screws.
4. Remove 3 upper screws on both sides of the case.
5. Lift the case from the transport.

Amplifier

1. Remove 2 screws on both sides of the case.
2. Remove 2 screws on the bottom of the case.
3. Pull out the amplifier from case.



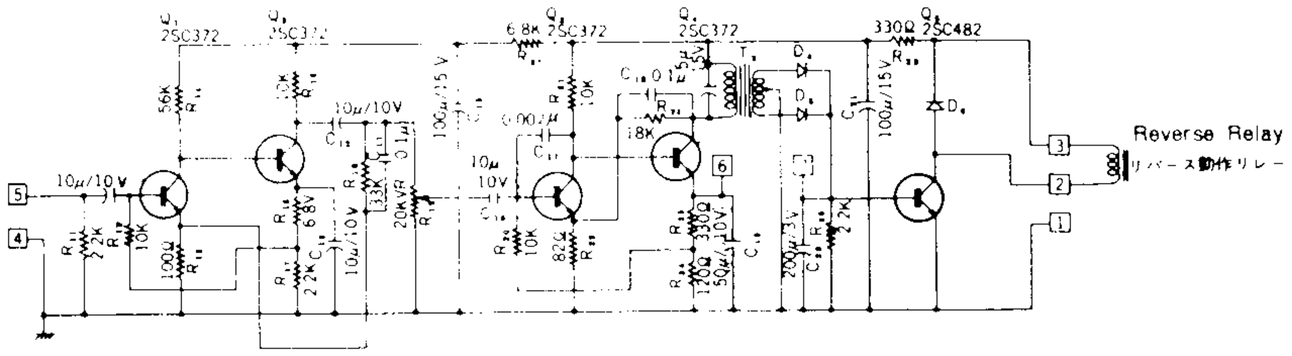
TEAC A-6010
SCHEMATIC DIAGRAM
TAPE TRANSPORT



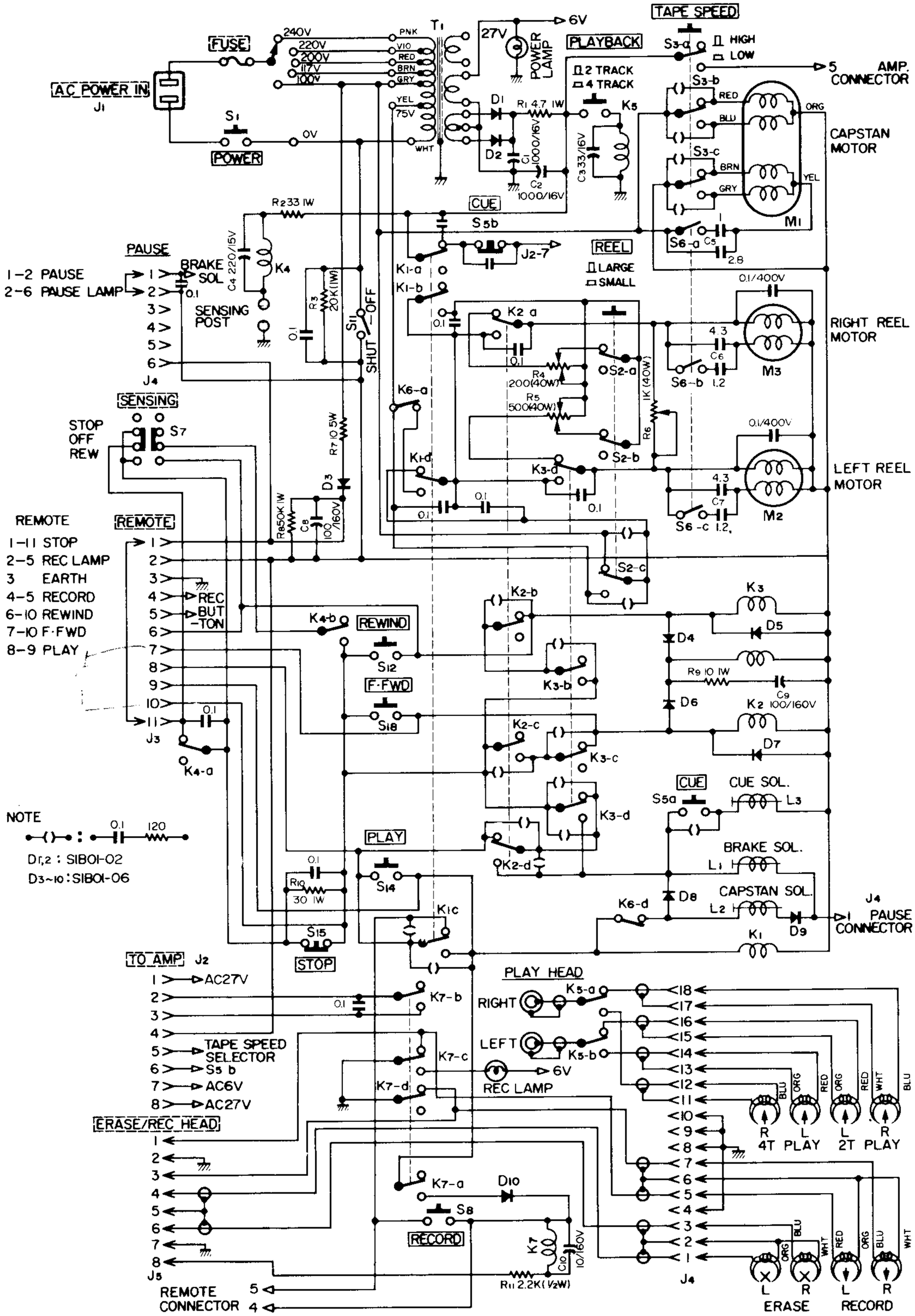
* THIS RESISTOR IS FACTORY ADJUSTED.

NOTE:
—()— : 0.1μ + 120Ω

TEAC A-6010
SCHEMATIC DIAGRAM
RECORD / PLAYBACK AMPLIFIER



TEAC A-6010
SCHEMATIC DIAGRAM
REVERSE AMPLIFIER



国内向の電源は100V専用です.

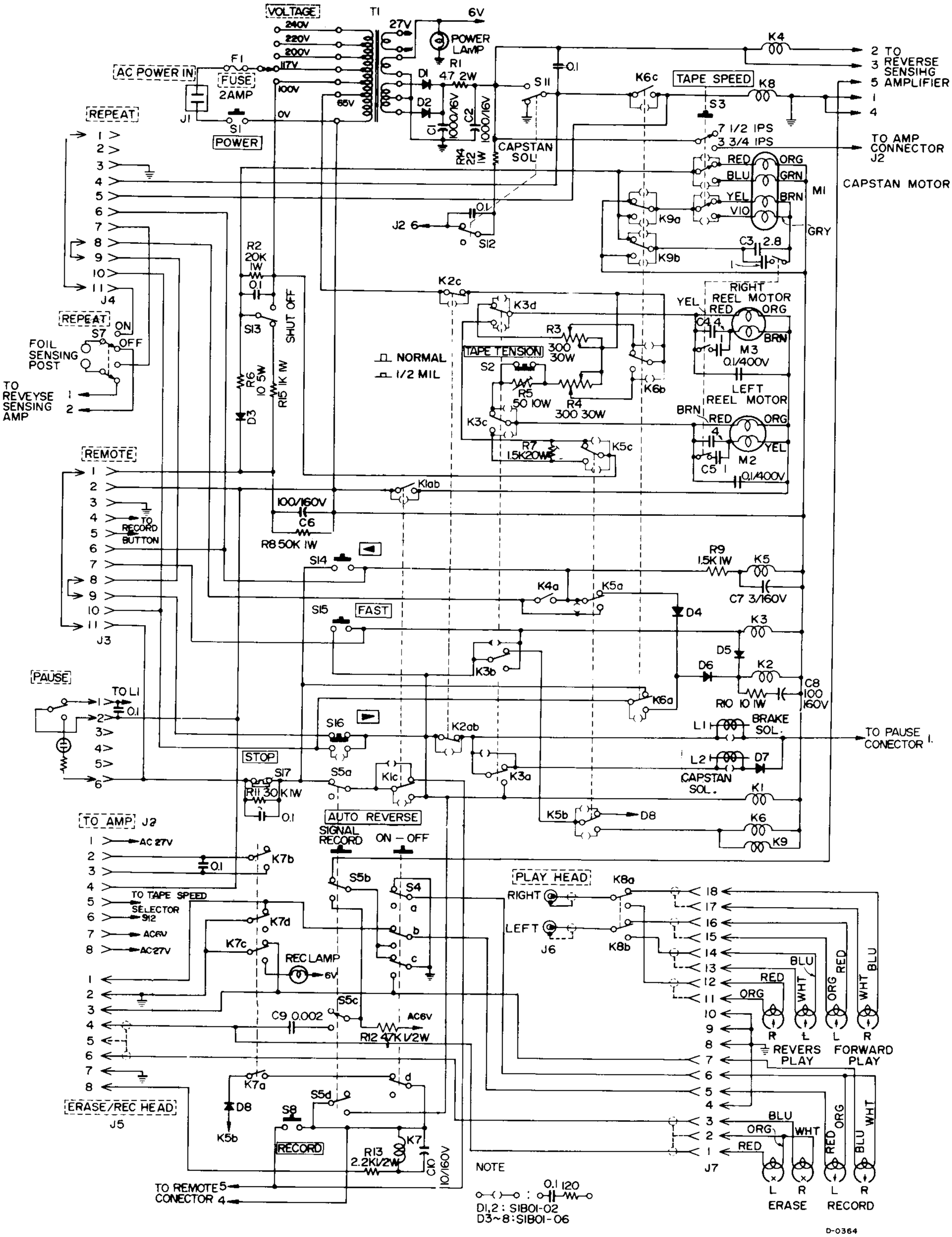
D-0366

TEAC A-7030SL/7030SL

SCHEMATIC DIAGRAM

TAPE TRANSPORT

*TEAC 7030SL is 117VAC only.

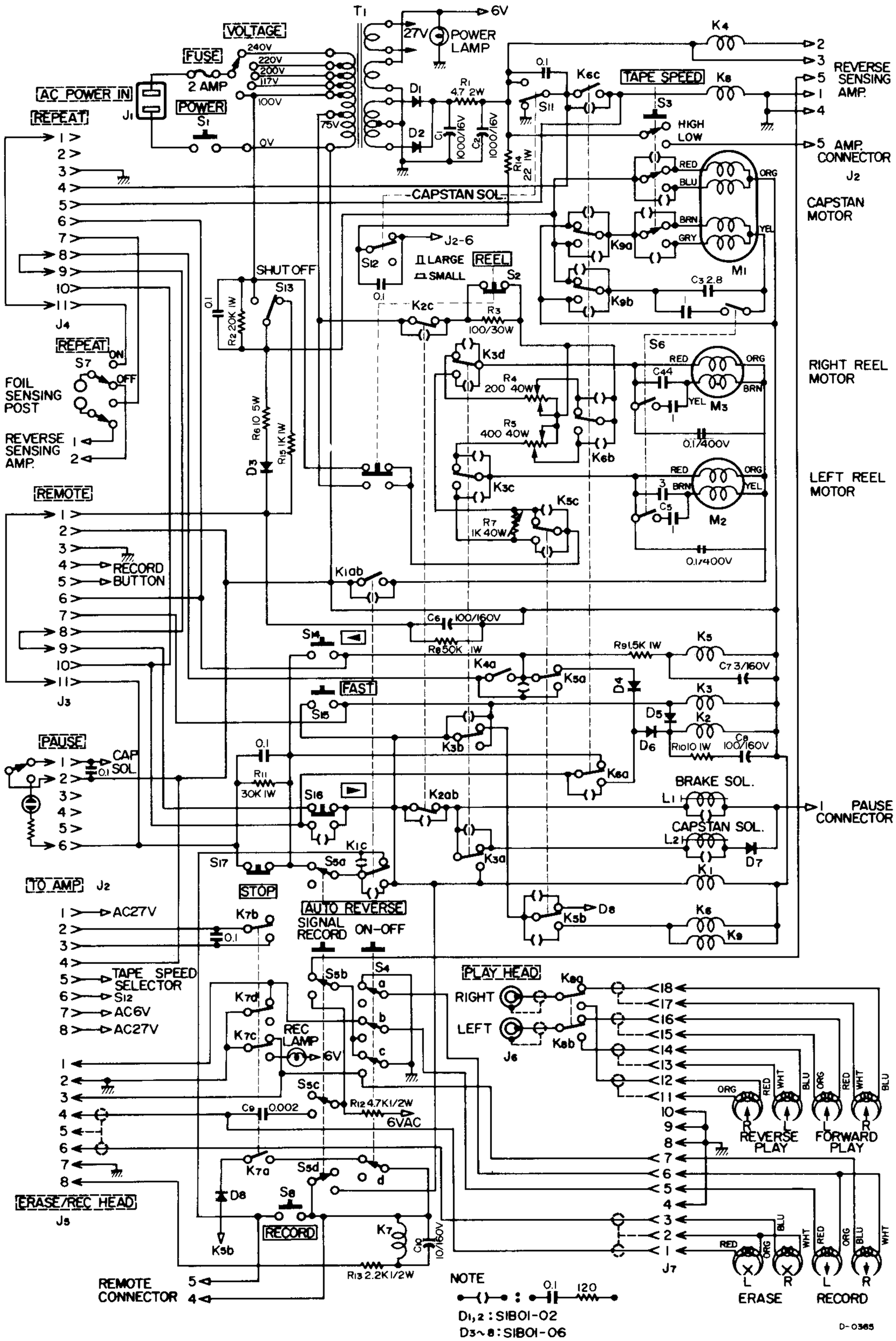


TEAC A-6010SL/6010SL

SCHEMATIC DIAGRAM

TAPE TRANSPORT

*TEAC 6010SL is 117VAC only.

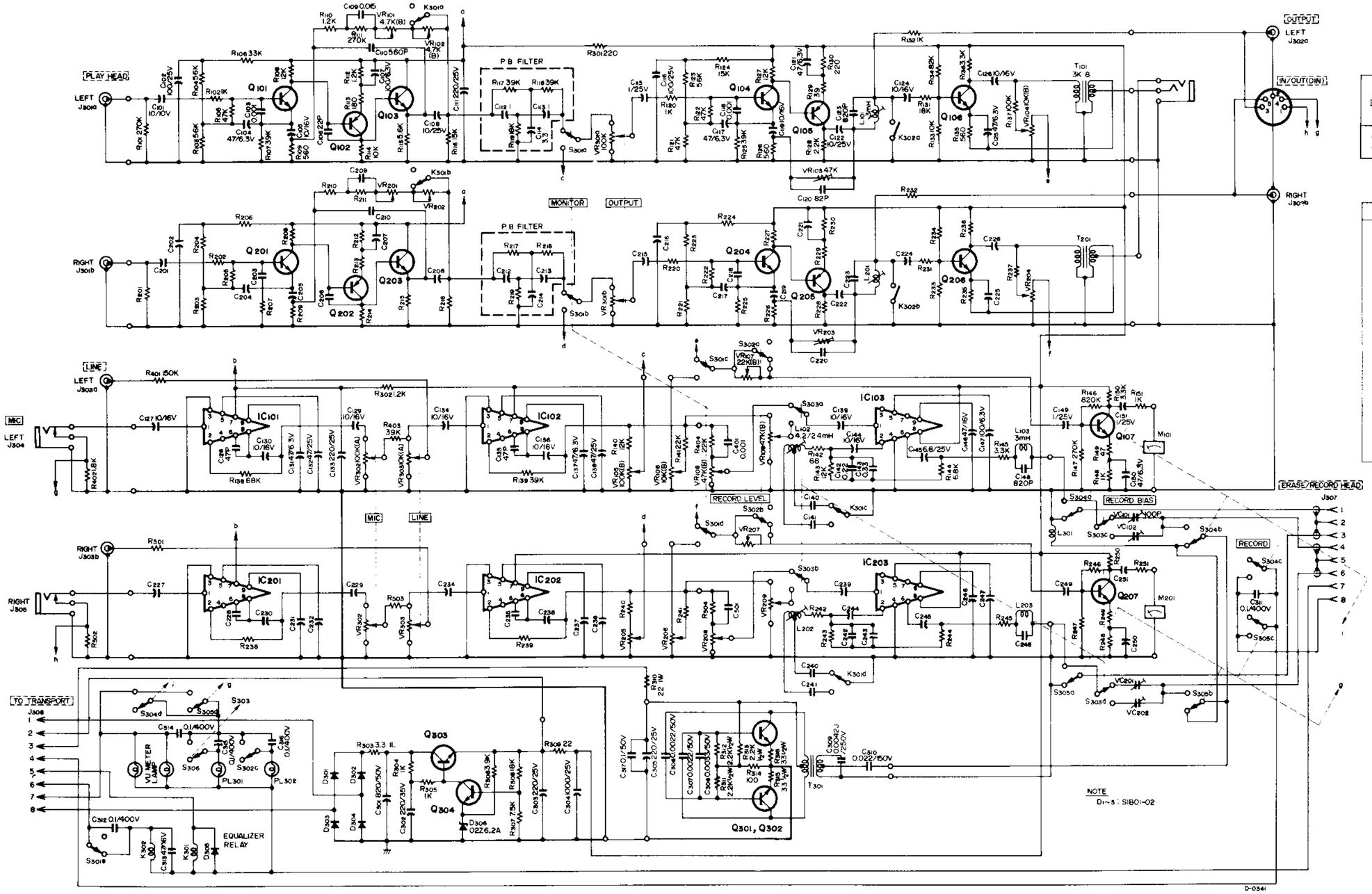


TEAC A-7010SL/7010SL

SCHEMATIC DIAGRAM

TAPE TRANSPORT

*TEAC 7010SL is 117VAC only.



REC EQ CAP	A-7030SL 7030SL	A-6010SL 6010SL A-7010SL 7010SL
C140/240 C141/241	0.0068uF 0.015uF	0.022uF 0.039uF

CIRCUIT REF NO.	DESCRIPTION
Q101/201	2SC1000BL
Q102/202	2SA572YL4
Q103/203	2SC536F
Q104/204	2SC693F
Q105/205	2SA474-Y
Q106/206	2SC733Y or 2SC536F
Q107/207	2SC733Y or 2SC536F
Q301·302	2SC971
Q303	2SD235
Q304	2SC733Y
IC101/201	TEAC42709
IC102/202	TEAC42709
IC103/203	TEAC42710

SCHEMATIC DIAGRAM

RECORD/PLAYBACK AMPLIFIER

(For A-6010SL/6010SL/A-7010SL/
7010SL/A-7030SL/7030SL)