

SONY®

STEREO TAPECORDER TC-560D

OWNER'S INSTRUCTION MANUAL

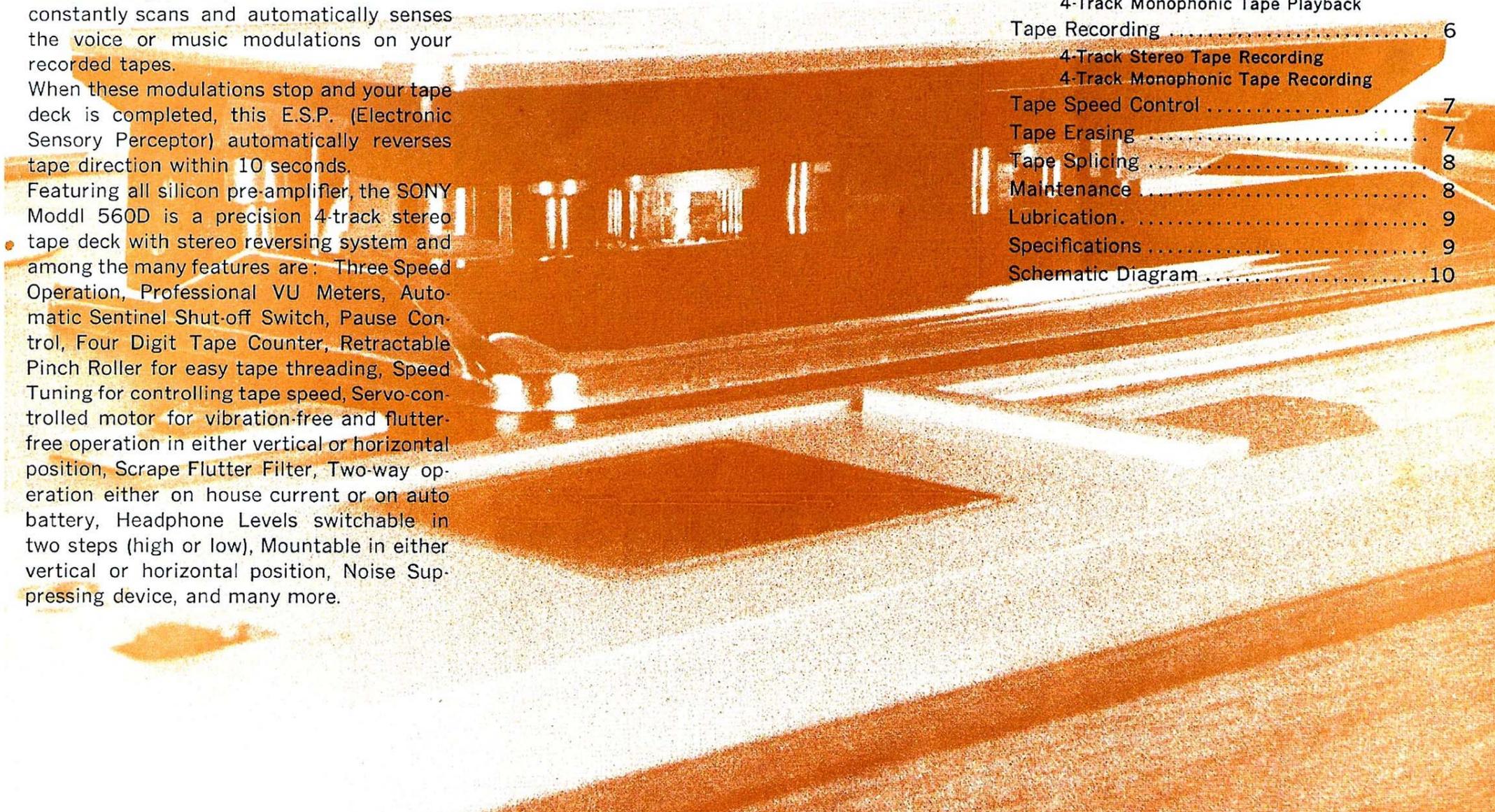


The new SONY solid state tape deck, Model TC-560D features the exclusive SONY Electronic Sensory Perceptor, a truly automatic tape reversing system which is activated by any type of recorded tapes without the inconvenience of recording reversing signals or applying metallic cue strips of the tape. This amazing (E.S.P.) SONY Electronic Brain constantly scans and automatically senses the voice or music modulations on your recorded tapes.

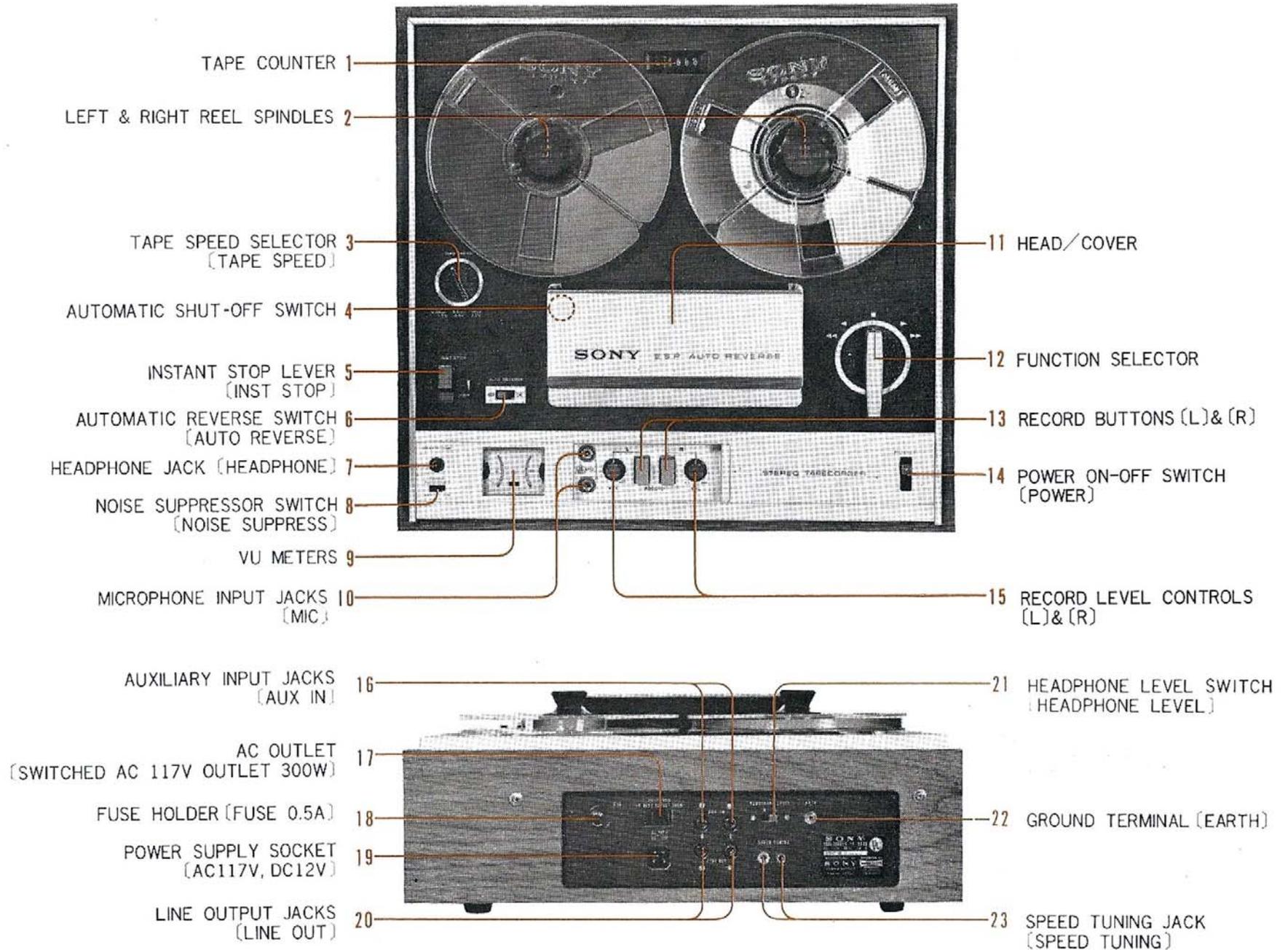
When these modulations stop and your tape deck is completed, this E.S.P. (Electronic Sensory Perceptor) automatically reverses tape direction within 10 seconds.

Featuring all silicon pre-amplifier, the SONY Model 560D is a precision 4-track stereo tape deck with stereo reversing system and among the many features are: Three Speed Operation, Professional VU Meters, Automatic Sentinel Shut-off Switch, Pause Control, Four Digit Tape Counter, Retractable Pinch Roller for easy tape threading, Speed Tuning for controlling tape speed, Servo-controlled motor for vibration-free and flutter-free operation in either vertical or horizontal position, Scrape Flutter Filter, Two-way operation either on house current or on auto battery, Headphone Levels switchable in two steps (high or low), Mountable in either vertical or horizontal position, Noise Suppressing device, and many more.

TABLE OF CONTENTS	Location of Controls and Connectors	1
	Operation of Controls and Connections	2
	Power Source	4
	Preparations	4
	Tape Threading	4
	Tape Playback	5
	4-Track Stereo Tape Playback	
	4-Track Monophonic Tape Playback	
	Tape Recording	6
	4-Track Stereo Tape Recording	
	4-Track Monophonic Tape Recording	
	Tape Speed Control	7
	Tape Erasing	7
	Tape Splicing	8
	Maintenance	8
	Lubrication	9
	Specifications	9
	Schematic Diagram	10



Location of Controls and Connectors



Operation of Controls and Connections

1. TAPE COUNTER

The digital counter indicates the amount of tape used in record or playback. At the start of a tape, press the reset button; four zeros [0000] will appear in the window.

2. LEFT & RIGHT REEL SPINDLES

Place a full reel of tape or an empty reel on either of them.

3. TAPE SPEED SELECTOR [TAPE SPEED]

This selects the desired tape speed of 7-1/2 ips., 3-3/4 ips. or 1-7/8 ips., and automatically sets the proper recording and playback electronic characteristics for each speed.

7-1/2 ips. and 3-3/4 ips. are ideal when recording of the better sound quality are desired.

1-7/8 ips. is ideal when longer recording time is desired such as for speech and class room use, etc.

In playback mode, set the speed to the same speed on the prerecorded tape.

4. AUTOMATIC SHUT-OFF SWITCH

This switch is controlled by a wire lever located under the HEAD COVER. This wire lever is held in position by the tape.

When the tape breaks or runs out, the wire lever swings outward and the mechanism will automatically shut off.

5. INSTANT STOP LEVER [INST. STOP]

This lever instantly stops tape motion by pulling the lever toward you until it locks into position while the recorder is either in record or playback mode.

To release, press the lever down, the tape will immediately pick up normal forward speed.

* When the FUNCTION LEVER is switched from Forward position to Stop position, the locked lever is automatically released. In stop mode the lever will not lock into position.

6. AUTOMATIC REVERSE SWITCH [AUTO REVERSE]

This slide switch turns the 'Auto Reverse' function on and off. When turned on, the recorder will automatically reverse the direction of tape motion within 10 seconds after the completion of the tape signal in playback mode. The 'Auto Reverse' functions only when a tape is being played in the left-to-right direction.

NOTE: This switch does not operate in record mode.

7. HEADPHONE JACK [HEADPHONE]

This jack connects to any high quality stereo headphone of low impedance (8 ohm) equipped with a standard binaural phone plug. Recommended headphone is the SONY Stereo Headset DR-3A, (optional accessory). Adjust the HEADPHONE LEVEL SWITCH [HEADPHONE LEVEL] located at the rear of the set to your desired sound volume by sliding it to either H (larger sound volume) or L (smaller sound volume).

8. NOISE SUPPRESSOR SWITCH [NOISE SUPPRESS]

In ON position, this switch cuts off signals 12 db/Octave above 9 KHz so that any prevalent hiss noise on the tape is suppressed during playback.

9. VU METERS

The VU METERS indicate the volume levels of recording and playback.

a. For playback, the VU METERS [L] & [R] are calibrated to indicate appropriate levels for normal volume.

b. In record mode, they are calibrated to exact NAB standard for the best recording results, the level controls should be adjusted so that the needles do not go beyond the boundary of the red and white zones; however it is normal for transient peaks to swing the needle into the red zone.

10. MICROPHONE INPUT JACKS [MIC]

Equipped with mini jacks. Will accept the SONY dynamic microphone F-98, F-96 (optional accessory) or any high quality low impedance microphone. Also accepts inputs of the SONY telephone pick-up TP-4S (optional accessory), SONY Stereo Microphone Mixer MX-6S (optional accessory) and any SONY radio equipped with a recording jack and a record player equipped with a magnetic phono cartridge for direct recording from stereo discs. In this case, use the optional accessory SONY Magnetic Phono Connecting Cord RK-66 providing RIAA standard equalization to obtain flat frequency response.

11. HEAD COVER

This cover protects the heads. When cleaning the tape path, demagnetizing head or lubricating pinch rollers, etc., remove the head cover by loosening the screws located on both sides of the cover.

12. FUNCTION SELECTOR

This knob controls all tape motion; Forward (left and right), Stop, Fast Rewind (left and right). To play tape, turn FUNCTION SELECTOR to the necessary Forward position [◀] or [▶]. To move the tape quickly to either right or left position, turn FUNCTION SELECTOR to the necessary rewind position [◀◀] or [▶▶]. To stop tape motion, turn FUNCTION SELECTOR to Stop position [■].

13. RECORD BUTTONS [RECORD]

The two red push buttons activate the RECORD mode switch. These buttons will be locked in place when the FUNCTION SELECTOR is set in Stop position. To record, press the desired record button L (left) or R (right) for monophonic recording, or both for stereophonic recording, and turn FUNCTION SELECTOR to Forward [◀] or [▶] position while holding one or both record buttons in.

TO RELEASE RECORD BUTTONS

When one of the buttons is down, slightly press the other button. When both buttons are down, firmly press on one button, this will cause the other to spring up, and after it spring up, press it slightly and the remaining button will spring up. When the tape is not threaded on the recorder, turn the FUNCTION SELECTOR to either Forward [◀] or [▶] position to release the locked record buttons.

NOTE: If the FUNCTION SELECTOR is turned to Stop position while recording, the RECORD BUTTONS will be released and the recorder will automatically switch from record to playback mode.

14. POWER ON-OFF SWITCH [POWER]

This see-saw switch turns the recorder ON or OFF. Press down the one side of the switch marked with a white dot [•] to turn the power ON. Press the other side to turn OFF.

15. RECORD LEVEL CONTROLS [VOL] L & R

The two Level Controls adjust the recording input levels of program sources. Turn clockwise toward [MAX] to increase and counterclockwise toward [MIN] to decrease the recording levels.

16. AUXILIARY INPUT JACKS [AUX IN]

Equipped with standard phono jacks. These phono jack inputs accept outputs of an integrated amplifier (recording outputs), FM/AM tuner, tape recorder (monitor outputs or line outputs), record player equipped with a crystal cartridge, etc. for recording programs directly from the connected component. These inputs have an impedance of 100 K ohms and sensitivity of 61 mV.

17. AC OUTLET [SWITCHED AC 117V OUTLET 300W]

Supplies maximum 300 watts of 117V AC power to other components. This outlet operates only

when the POWER ON-OFF SWITCH is ON.

18. FUSE HOLDER [FUSE 0.5A]

The fuse holder contains a 0.5 ampere fuse. To replace the fuse, turn the holder counterclockwise. Replace with a 0.5 ampere fuse only.

19. POWER SOCKET [AC 117V, DC 12V]

This socket is for connection to 117V AC household power line. Insert the AC Power Cord (supplied) into the socket and the other end into any 117V AC outlet. Operation on auto/boat battery DC 12V is possible with the use of SONY Car Battery Cord DCC-2AW (optional accessory). Refer to page 4.

20. LINE OUTPUT JACKS [LINE OUT]

Equipped with standard phono jacks. Connect outputs to other tape recorder inputs (auxiliary

inputs, or line inputs), auxiliary inputs or line inputs of an integrated amplifier or pre-amplifier.

21. HEADPHONE LEVEL SWITCH [HEADPHONE LEVEL]

See 'HEADPHONE JACK' on page 2.

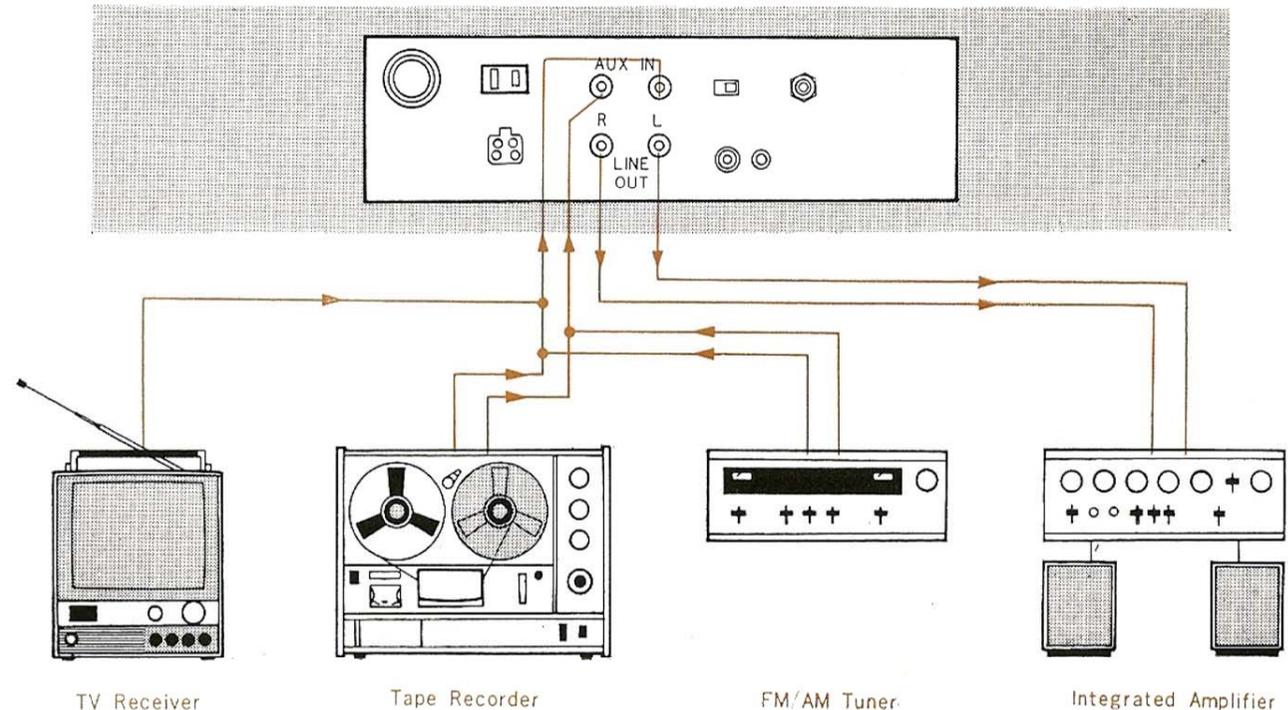
22. GROUND TERMINAL [EARTH]

This terminal is for ground connection with a record player or a tuner, etc.

23. SPEED TUNING JACK [SPEED TUNING]

This jack is used for connecting the SONY Remote Control RM-6 (optional accessory). Insert the two-pin plug of the RM-6 into the SPEED TUNING JACK [SPEED TUNING]. Tape speed can be controlled in playback only.

* The Stop Button of the RM-6 will not function on this tape recorder.



TV Receiver

Tape Recorder

FM/AM Tuner

Integrated Amplifier

Power Source

Operation on House Current

Connect AC power cord (supplied accessory) to the POWER SUPPLY SOCKET [AC 117V DC 12V] and the other end of the cord to an AC outlet. Turn the POWER SWITCH on.

Operation on Auto/Boat Battery

Use the SONY Car Battery Cord DCC-2AW (optional accessory) for 12 volts electrical systems. Insert the round plug of DCC-2AW into the cigarette lighter socket of a car, etc., and 4-hole plug into the POWER SUPPLY SOCKET [AC 117V DC 12V] of the recorder. Check if your car has noise suppressors, if not, their installation may be necessary to avoid undesirable noise. Your local auto dealer or mechanic can install them.

Preparations

1. Insert AC POWER CORD into AC 117V outlet.
2. Connect the LINE OUTPUT JACKS [LINE OUT] of the recorder to the auxiliary, tape or tuner inputs of an amplifier with the use of the supplied Connecting Cord RK-56.
3. Turn on the recorder and the connected amplifier and adjust the amplifier to stereo playing mode.

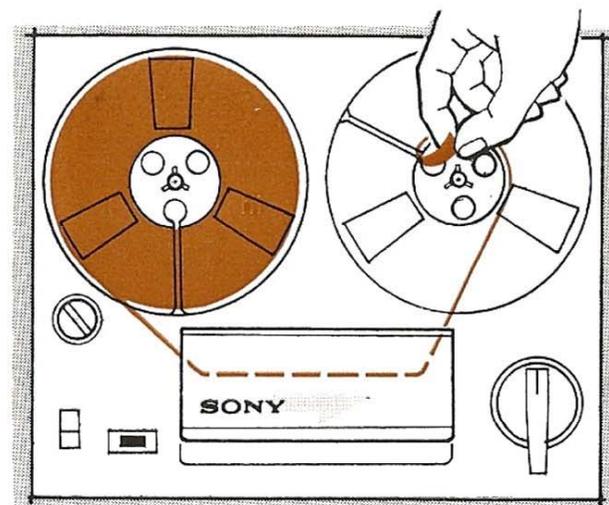
Tape Threading

Reel sizes from 3 to 7 inches diameter can be accommodated.

1. Place an empty reel on the RIGHT REEL SPINDLE and a full reel of tape on the LEFT REEL SPINDLE in normal direction operation.*
2. Unwind about 18 inches of tape or leader from a full reel of tape and bring it from left-to-right through the tape path under HEAD COVER. Dull side of the tape should face the heads.
3. Wrap it around the empty reel hub, or insert the end into the reel slot. (The use of a SONY Easy Tape Threader will facilitate the threading of tape).
4. Set the desired tape speed of 7-1/2 ips., 3-3/4 ips. or 1-7/8 ips. by turning the TAPE SPEED SELECTOR [TAPE SPEED]. A pre-recorded tape must be played back at the same speed at which it was recorded.

NOTE: For vertical use, put the supplied Reel Caps on the reel spindles.

* Reverse threading procedure if use of tape in reverse direction becomes necessary.



Tape Playback

When playing tapes, refer to 'OPERATION OF CONTROLS AND CONNECTIONS' (page 2) for the proper operation and connections.

The E.S.P. automatic tape reverse works on almost all recorded tapes available on the market. If, however, the tape is recorded to the very end of tape or the unrecorded portion is too short, splice an 8 feet length of unrecorded leader to the end of the tape. This allows the 'Automatic Reverse' E.S.P. system to operate.

4-Track Stereo Tape Playback

1. Thread a recorded tape on the recorder.
2. Select the tape speed.
3. Set the AUTO REVERSE SWITCH [AUTO REVERSE] to ON.
Set the Mode Selector of the connected amplifier to Stereo position.
4. Turn the FUNCTION SELECTOR to Right Forward position [▶].
5. Adjust the sound volume and tone quality on the side of the amplifier for your listening preference.
* When listening through a headphone, plug the headphone plug into the headphone jack located on the left front panel of the set. The volume can be adjusted in two steps H (High) or L (Low) for your listening preference.

NOTE: The deflection of the needle of the VU METERS shows the output level from the LINE OUTPUT JACKS [LINE OUT].

6. When tracks 1 and 3 are completed, the tape direction is automatically reversed, then tracks 4 and 2 will be played.
7. When tracks 4 and 2 are completed, the recorder will automatically shut off. Turn the FUNCTION SELECTOR to Stop position [■].

NOTE: To suppress hiss noise on tape, if any, set the NOISE SUPPRESSOR SWITCH [NOISE SUPPRESS] to ON.

4-Track Monophonic Tape Playback

The following 'Automatic Reverse' playback procedure is recommended for a monophonic tape whose sequence of recording is: track 1 track 4 track 3 track 2 and whose unrecorded portions of the beginning and the end of tracks 2 and 3 should have the same length as those of tracks 4 and 1.

If the tape is fully recorded to its complete end or its unrecorded portion is very short, splice an 8 feet or longer leader to the tape and for 'Automatic Reverse' playback.

1. Thread the recorded tape on the recorder.
2. Select the tape speed.
3. Set the AUTOMATIC REVERSE SWITCH [AUTO REVERSE] to ON. Set the Mode Selector of the amplifier to CH-1.
4. Turn the FUNCTION SELECTOR to the Right Forward position [▶].
5. Adjust the sound volume and tone quality on the side of the amplifier connected for your listening preference.
* When listening through a headphone, plug the headphone plug into the headphone jack located on the left front panel of the recorder. The volume can be adjusted in two steps H (High) or L (Low) for your listening preference.

NOTE: The deflection of the needle of the VU METER shows the output level from the LINE OUTPUT JACKS [LINE OUT].

6. When track 1 is completed, tape direction is automatically reversed and then track 4 will be played.
7. When track 4 is completed, turn the FUNCTION SELECTOR to Stop position.
8. To play back tracks 3 and 2, set the MODE Selector of the amplifier to CH-2. Then set the AUTO REVERSE SWITCH to ON and turn the FUNCTION SELECTOR to the Right Forward position [▶].

NOTE: To suppress hiss noise on tape, if any, set the NOISE SUPPRESSOR SWITCH [NOISE SUPPRESS] to ON.

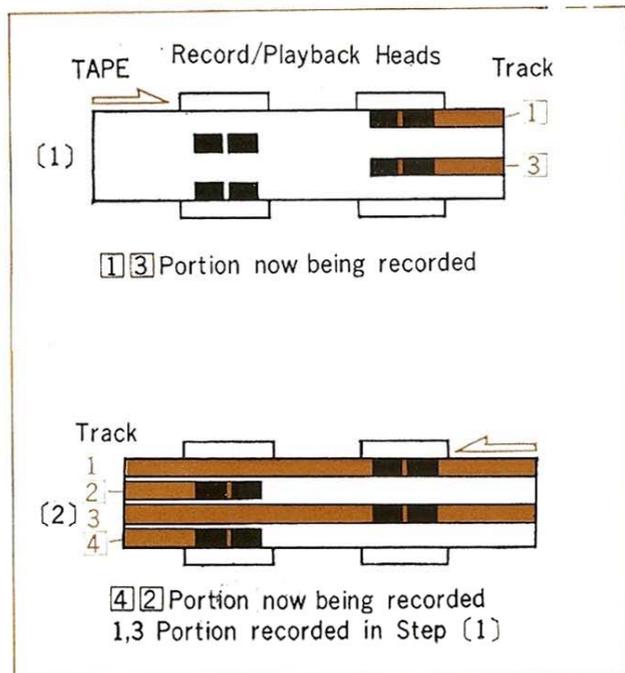
Tape Recording

Before recording, try to estimate the input program's playing time and provide more tape on the recorder than you think you will actually need. To make your own recorded tapes for SONY E.S.P. 'Automatic Reverse' playback, leave an unrecorded portion at the end of more than 8 feet (10 seconds or over) or splice a leader tape of the same length.

IMPORTANT: Keep the intervals between program material on the tape to less than 8 seconds in length.

4-Track Stereo Recording

1. Thread the tape on the recorder and reset TAPE COUNTER to [0000] by pressing the reset button.
2. Select the desired tape speed by turning TAPE SPEED SELECTOR [TAPE SPEED] to 7-1/2 ips., 3-3/4 ips. or 1-7/8 ips.
3. Press the POWER ON-OFF SWITCH [POWER] to turn the power ON.



4. Switch the function selector of the connected external amplifier according to the desired input program source for recording.
 - * When the recorder is not connected to an integrated amplifier, connect stereo source to proper inputs of the recorder. Refer to 'OPERATION OF CONTROLS AND CONNECTIONS' on page 2.
5. Press the RECORD BUTTONS [L] & [R] and adjust the RECORD LEVEL CONTROLS [L] & [R] by watching the deflection of the needle of the VU METERS for proper recording level.
6. Hold the RECORD BUTTONS [L] & [R] in and turn the FUNCTION SELECTOR to the Right Forward position [▶]. The RECORD BUTTONS are now locked and stereo recording on tracks 1 and 3 has started.

NOTE: Leave the end of tracks 1 and 3 unrecorded for approximately 8 feet (10 seconds or over).

7. When recording of side 1 (track 1 and 3) is finished, record side 2 (track 2 and 4) without rewinding by repeating the same procedure as in paragraphs 5, 6. In this case turn the FUNCTION SECECTOR to the Left Forward position [◀]. Now the tape moves in right-to-left direction.
8. When recording is completed, turn FUNCTION SELECTOR to Stop position [■]. Now the tape is ready for stereophonic playback.

To Monitor while Recording

When you wish to monitor while recording, plug the Headphone Plug into the Headphone Jack of the recorder or the connected amplifier.

4-Track Monophonic Recording

1. Thread the tape on the recorder and reset the TAPE COUNTER to [0000].
2. Select the desired tape speed.
3. Press the POWER ON-OFF SWITCH [POWER] to turn the power ON.
4. Switch the function selector of the connected external amplifier according to the desired input program source for recording.
 - * When the recorder is not connected to an external amplifier, connect the desired monophonic source to left or right channel input.
5. Press the RECORD BUTTON [L] and adjust the RECORD LEVEL CONTROL [L] so that the needle of the VU METER [L] may not swing beyond the boundary of the red and white zones.
6. Hold the Left RECORD BUTTON [L] in and turn the FUNCTION SELECTOR to the Right Forward position [▶]. The RECORD BUTTON is now locked and monophonic recording on track 1 has started.

NOTE: Leave the end of tape unrecorded for approximately 8 feet (10 seconds or over). When the end of track is reached, turn the FUNCTION SELECTOR to Stop position [■].

7. Record track 4 by pressing the RECORD BUTTON [L] and turn the FUNCTION SELECTOR to the Left Forward position [◀]. Now the tape moves in right-to-left direction. Record so that the beginning portion of track 1 may coincide with the ending portion of track 4 by utilizing the TAPE COUNTER for Automatic Reversing System.
8. When the end of tape is reached, turn the FUNCTION SELECTOR to the Stop position [■].
9. To record track 3, change the connection of input program from the left [L] to the right [R] input jack.

Tape Speed Control

(SPEED TUNING)

This system is mainly designed for matching the sound pitch of musical instruments which can not be easily tuned. With the use of the SONY Remote Control RM-6 (optional accessory), the tape speed can be tuned by turning its Speed Control Knob. This system is used only for playback.

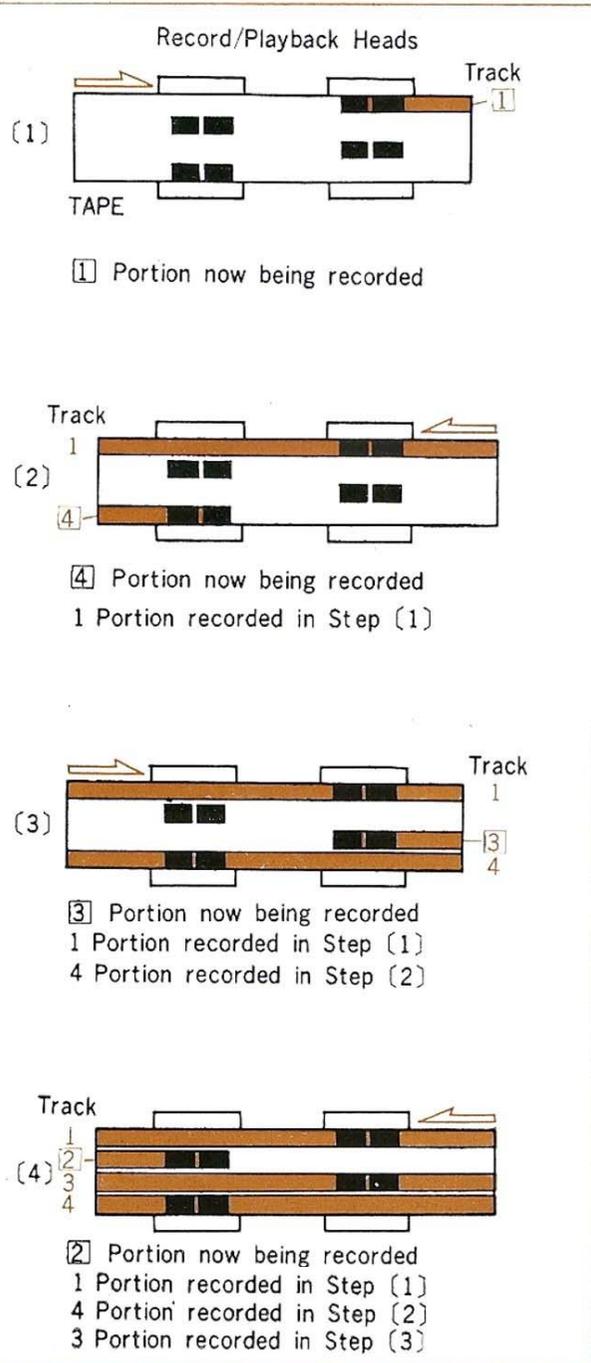
NOTE: The RM-6 is furnished with an Instant Stop Button, but it is inoperative on this model TC-560D. For further details, read the Instruction for use of the RM-6.

Tape Erasing

When the recorder is set in record mode, the Erase Head will erase the track (or tracks) of the tape for the corresponding activated pole pieces of the recording head. Therefore, when you start a new recording, any previous recordings are automatically erased as the tape passes the erase head. You can also erase a recorded tape without adding a new recording.

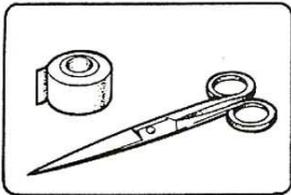
Place the recorder in record mode by disconnecting input program source in the rear of the set. Then run the tape through. The tape will be erased more quickly at the speed of 7-1/2 ips. or use a Bulk Eraser for immediate erasure.

10. Hold the RECORD BUTTON [R] in and turn the FUNCTION SELECTOR to the Right Forward position [▶]. Now recording on track 3 has started.
11. When the end of tape is reached, track 3 has been recorded. Try to record so that the ending portion of track 3 coincide with the beginning portion of track 4 by utilizing the TAPE COUNTER.
12. To record track 2, follow the same procedure as in paragraph 10, but turn the FUNCTION SELECTOR to the Left Forward position [◀].
- * Record so that the beginning portion of track 2 may coincide with the beginning portion of track 4 by utilizing the TAPE COUNTER.
13. When recording on track 2 is completed, turn the FUNCTION SELECTOR to Stop position [■]. Now the recorded tape is ready for monophonic playback.

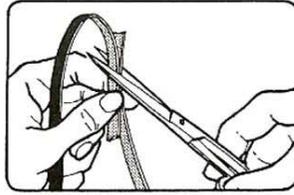


Tape Splicing

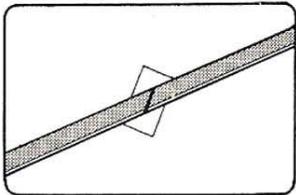
1. Use splicing tape and pair of scissors. Do not use ordinary cellophane tape. It tends to deteriorate.
2. Overlap recording tapes and make a diagonal cut across both tapes.
3. Carefully align and butt the cuts together. Keep the ends in contact, then firmly press a piece of splicing tape over the shiny side of the tape to make a firm joint.
4. Trim off the excess splicing tape.



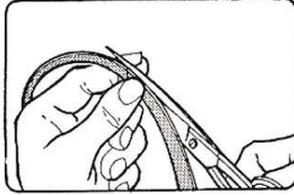
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2



3



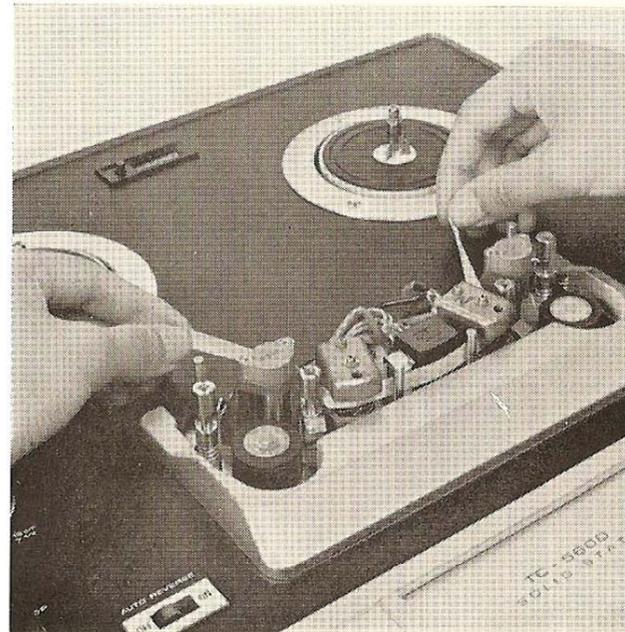
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Maintenance

Cleaning Heads

The use of inferior brands of tape will result in excessive oxide deposits. The iron oxide particles in the tape may build up a deposit on the heads and prevent complete erasure of old recordings and causes deterioration of playback and recording characteristics. Therefore, it is advisable to clean the heads after every ten hours of use or less as may be required. Remove the HEAD COVER by loosening the screws located on both sides of the cover with a small screw driver. Use the head cleaning ribbon (supplied accessory) or a soft cloth and carefully wipe the portion of the heads over which the tape travels. When the deposits can not be removed, moisten the ribbon with denatured alcohol.

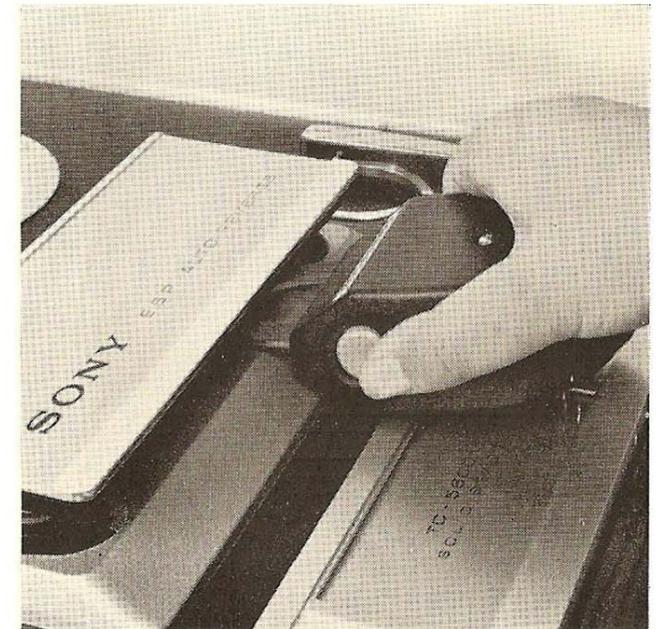
Frequent inspection of heads will maintain optimum performance. The use of SONY Tape is recommended for best results.



Demagnetizing Heads

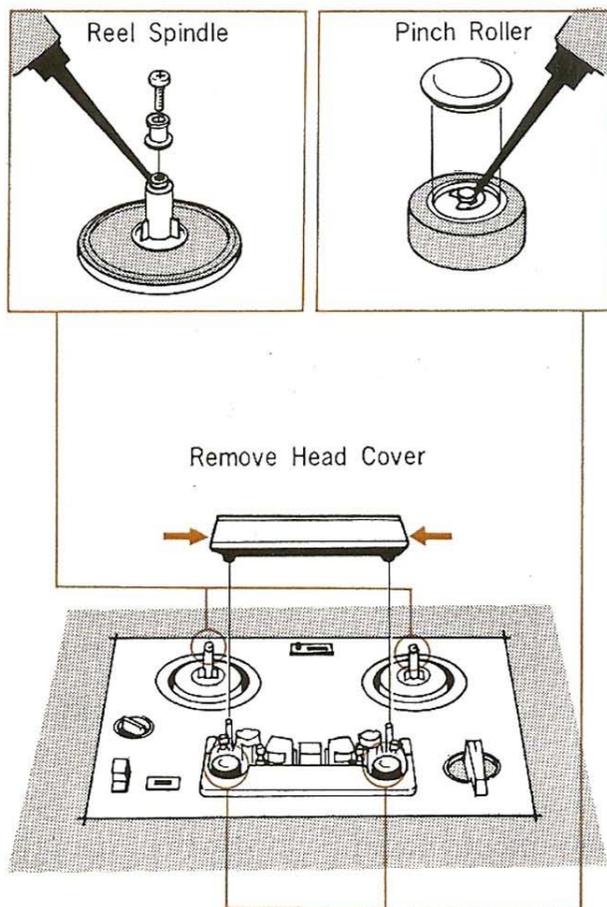
Through continuous use, residual magnetism will be gradually built up on the heads; this excessive residual magnetism will produce noise on the tape while it is being played or recorded. Therefore, periodic use of SONY Head Demagnetizer HE-2 or equivalent is recommended for best possible performance.

* It is unnecessary to demagnetize the erase head.



Lubrication

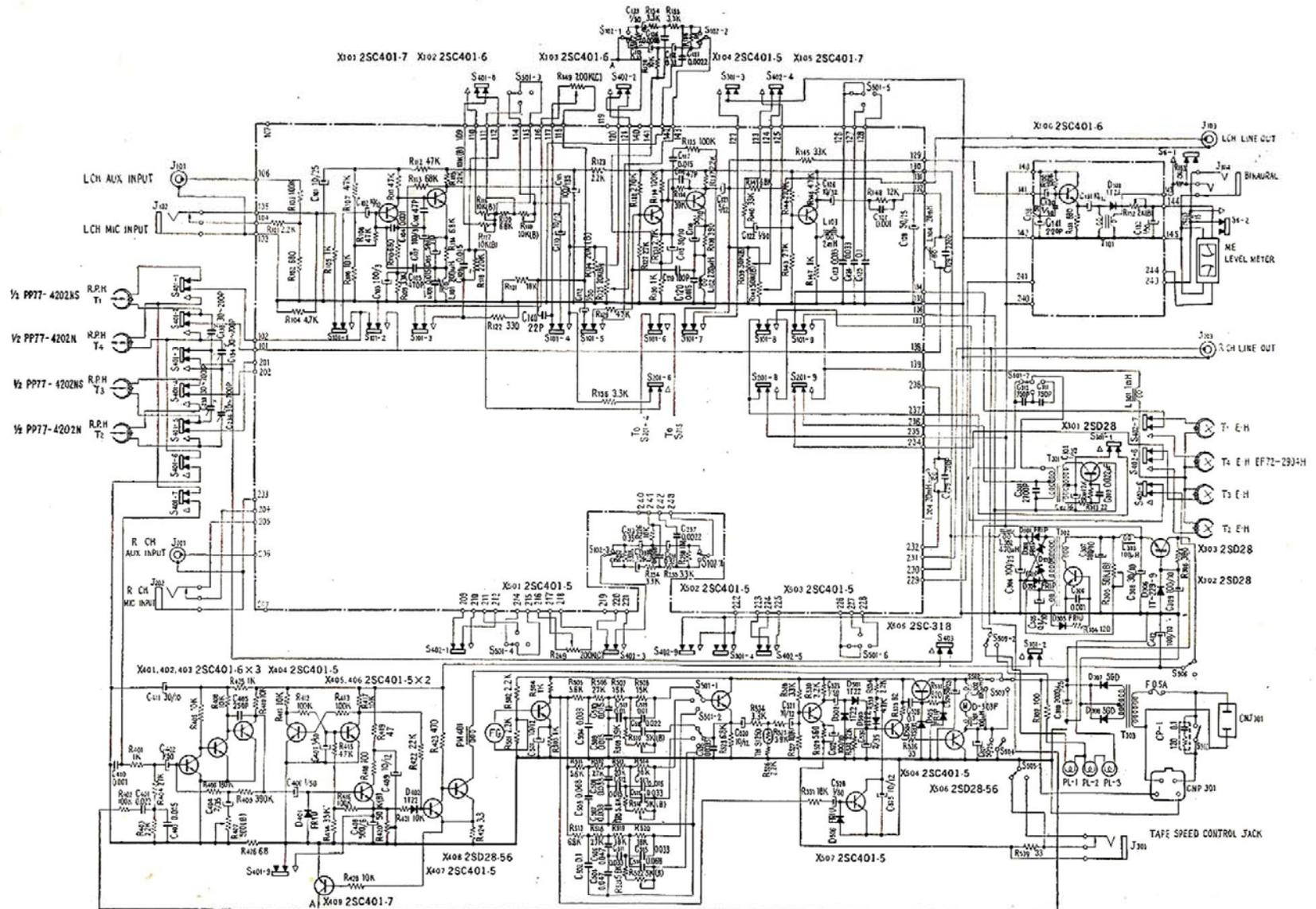
Use light machine oil and lubricate Pinch Roller or Reel Spindles every 6 months. Avoid excessive lubrication as it may cause slippage in the mechanism and contamination of your tape.



Specifications

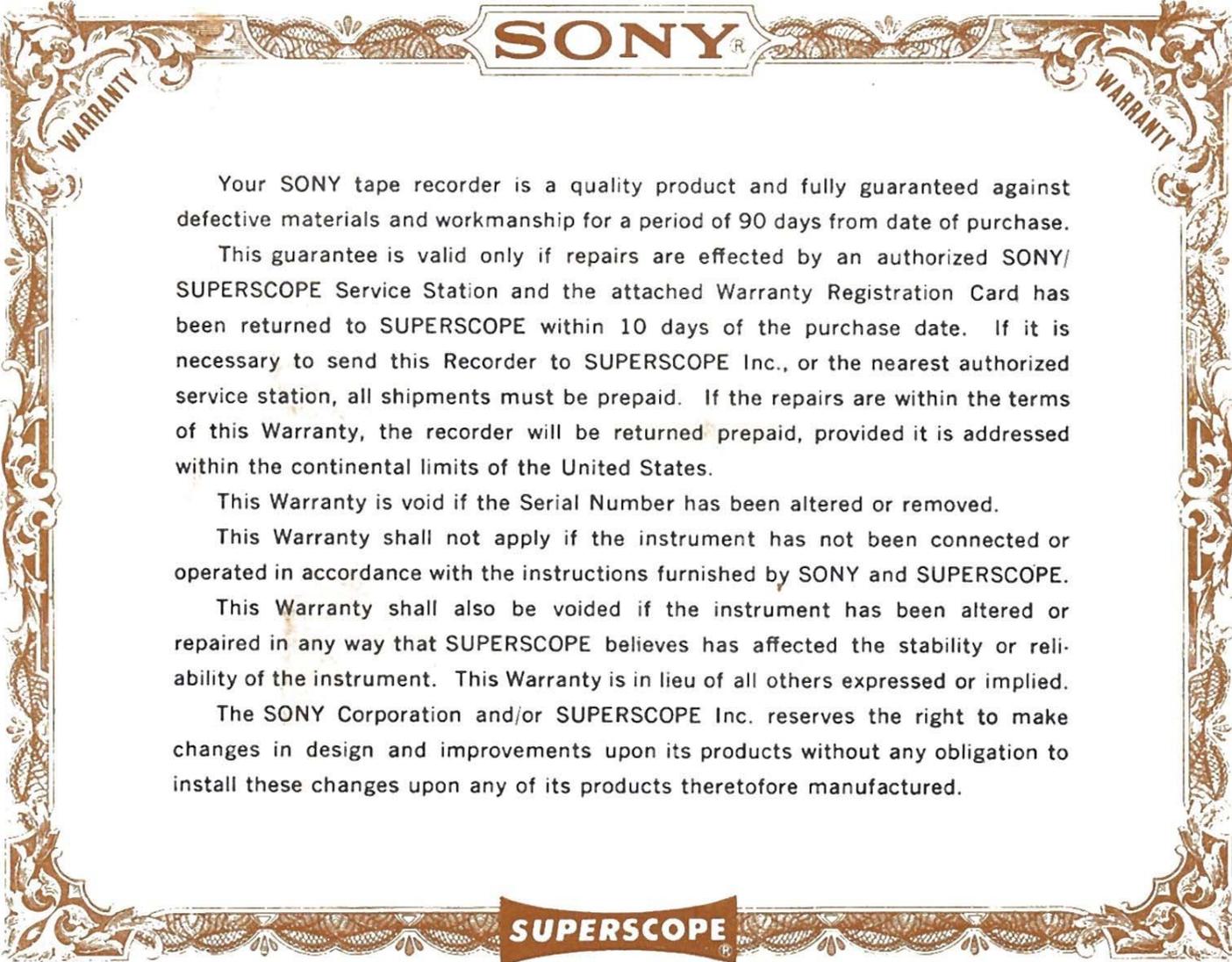
Power requirements :	117 volts, 60 Hz AC, 12 volts DC
Tape speed :	7-1/2 ips., 3-3/4 ips., 1-7/8 ips
Reels :	7 inches or smaller
Frequency response :	30~18000 Hz at 7-1/2 ips. 30~14000 Hz at 3-3/4 ips. 30~10000 Hz at 1-7/8 ips.
Flutter and wow :	Less than 0.07% at 7-1/2 ips. Less than 0.1% at 3-3/4 ips. Less than 0.15% at 1-7/8 ips.
Signal-to-noise ratio :	Better than 52 db
Level indication :	VU Meters calibrated to NAB standard
Recording time :	4-Track stereo 4-Track monophonic
	1800' tape 6 hrs. 12 hrs.
	1-7/8 ips.
Fast winding time :	within 140 seconds (1200' tape)
Inputs :	Microphone inputs : maximum sensitivity -72 db (0.19 mV) low impedance
	Auxiliary inputs : maximum sensitivity -22 db (61 mV) impedance approx. 100 K Ohms
Outputs :	Line outputs : output level 0 db (0.775 V) most suitable impedance 100 K Ohms
	Headphone jack : load impedance 8 Ohms -29 db (28 mV)/ -38 db (10mV), H (High) and L(Low) switchable
Transistors :	2SC401×25, 2SD28×5, 2SC318×1
Diodes :	FR-1U×3, 1T22×6, 1T229×1, 5G-D×2, 1S332×1, FR-1P×5
Dimensions :	16 ³ / ₈ "(W)×6 ¹¹ / ₁₆ "(H)×15 ⁷ / ₁₆ "(D)
Weight :	28 lb 11 oz
Accessories :	SONY Reel R-7A 1 Connecting Cord RK-56 2 Head Cleaning Ribbon 1 Reel Cap 2 AC Power Cord 1
Available Accessories :	Telephone Pick-up TP-4S Headphones DR-3A (8 Ohm) Stereo Microphone Mixer MX-6S, Microphone Mixer MX-600M Head Demagnetizer HE-2 Remote Control RM-6 Microphone (600 ohm) F-98, F-96 or equivalents Magnetic Phono Connecting Cord RK-66 Dust Cover Car Battery Cord DCC-2AW

Schematic Diagram



- REVERSE
- S101,201 REC/PLAYBACK SWITCH (REC POSITION)
 - S101 PLAY/STOP SWITCH (PLAY POSITION)
 - S102 POWER SWITCH (OFF POSITION)
 - S101,402 NORMAL/REVERSE SWITCH (NORMAL POSITION)
 - S103 ESP ON/OFF SWITCH (ON POSITION)

- SERVO
- S101 TAPE SPEED SWITCH (19cm/s POSITION)
 - S102 MOTOR SWITCH (ON POSITION)
 - S103 AUTO SHUT OFF SWITCH (ON POSITION)
 - S104 FAST FORWARD SWITCH (OFF POSITION)
 - S105 REC SWITCH (ON POSITION)
 - S106 INSTANT STOP SWITCH (OFF POSITION)
 - S1 HEADPHONE LEVEL SWITCH (LOW POSITION)
 - S102 NOISE SUPPRESSOR SWITCH (OFF POSITION)



SONY[®]

Your SONY tape recorder is a quality product and fully guaranteed against defective materials and workmanship for a period of 90 days from date of purchase.

This guarantee is valid only if repairs are effected by an authorized SONY/SUPERSCOPE Service Station and the attached Warranty Registration Card has been returned to SUPERSCOPE within 10 days of the purchase date. If it is necessary to send this Recorder to SUPERSCOPE Inc., or the nearest authorized service station, all shipments must be prepaid. If the repairs are within the terms of this Warranty, the recorder will be returned prepaid, provided it is addressed within the continental limits of the United States.

This Warranty is void if the Serial Number has been altered or removed.

This Warranty shall not apply if the instrument has not been connected or operated in accordance with the instructions furnished by SONY and SUPERSCOPE.

This Warranty shall also be voided if the instrument has been altered or repaired in any way that SUPERSCOPE believes has affected the stability or reliability of the instrument. This Warranty is in lieu of all others expressed or implied.

The SONY Corporation and/or SUPERSCOPE Inc. reserves the right to make changes in design and improvements upon its products without any obligation to install these changes upon any of its products theretofore manufactured.

SUPERSCOPE[®]

SONY CORPORATION