




TANDBERG series 6

STEREO TAPE DECK



instruction and operation manual



over a century of progress in fine instruments

TANDBERGS
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THIS IS
THE HOME OF

Tandberg
RADIO

The embodiment of Tandberg excellence in engineering, design and craftsmanship . . . this is the Series 6 Stereo Tape Deck. This is the fine quality instrument you have selected for your personal enjoyment and satisfaction.

This 4 track, 3 speed recorder is primarily intended for application and use by those who would demand the ultimate in fidelity for incorporation into present high fidelity systems. It is also an excellent portable unit thanks to the unusually handsome, modern styled cabinet and the carrying case. In every instance, however, you will always be aware of the sensitive performance and long-term-reliability that will deliver consistently fine professional quality unmatched by others.

You will find your Tandberg Series 6 Stereo Tape Deck most versatile and equally facile for any intended use . . . for music, business conferences,

interviews, education, speech and language laboratory, courses, idea storage, family gatherings, broadcasting and professional studio tape recording or playback. Yes, in every way an exciting and wonderful new world of purity in sound, simplicity in operation and versatility use awaits you.

Incidentally, a guarantee card for your new Tandberg Series 6 Stereo Tape Deck has been included as part of this instruction and operation booklet. It may be found on the last few pages of this manual and should be completed in full and returned immediately.

It is respectfully recommended that you read this booklet in full and follow instructions carefully to obtain optimum use from this superior stereophonic recorder/reproducer.

Now . . . see and hear for yourself ➤



controls



Fig. C.



Fig. D.

1. ON-OFF Switch — turns on power. (See Fig. C.)
2. 3-DIGIT TAPE COUNTER — indicates position of the tape.
3. RESET WHEEL — sets tape counter to ZEROs.
4. SPEED SELECTOR — selects the desired tape speed.
5. TAPE MOTION LEVER — moves tape quickly in forward or reverse direction. Also pre-sets tape motion for RECORD-PLAY speeds. (See Fig. D.)
6. RECORD PUSH BUTTONS NO. 1 and 2; (INTERLOCKED with TAPE MOTION LEVER) places the RECORDER in the RECORD MODE. Locks in only when TAPE MOTION LEVER is activated for RECORD-PLAY speed. PUSH-BUTTON NO. 1 activates RECORD MODE for CHANNEL 1, NO. 2 for CHANNEL 2.
7. MICROPHONE INPUTS NO. 1 and 2; — microphones connected to these INPUTS. Use hi-impedance microphones or low impedance with low to high impedance transformers.
8. RECORDING VOLUME CONTROLS — adjusts recording volume of both channels, separately or simultaneously. UPPER KNOB adjusts for CHANNEL 1, LOWER KNOB, CHANNEL 2.
9. RECORD LEVEL INDICATORS; — Indicates the recording volume. CHANNEL 1 INDICATOR on left; CHANNEL 2 INDICATOR on right.
10. START-STOP PUSH-BUTTON; — starts or stops TAPE MOTION in RECORD-PLAY mode. After the TAPE MOTION LEVER has been set to RECORD-PLAY, wait for 5 sec. before depressing the START-STOP button to allow the flywheel to reach correct speed.
11. PLAYBACK PUSH-BUTTONS NO. 1 and 2; — places recorder in PLAYBACK mode. NO. 1 BUTTON activates PLAYBACK from CHANNEL 1; NO. 2 button CHANNEL 2.
12. OUTPUT VOLUME CONTROLS; Provides individual control of both outputs independent of the positions of the push-buttons. UPPER KNOB adjusts CHANNEL 1, LOWER KNOB-CHANNEL 2. Both knobs are normally set to position 6.
13. SOUND-ON-SOUND-SWITCH; 3 positions; SON-S, NORMAL, and AB-test. (On the first recorders of Model 6 the switch was located underneath the recorder and had only two positions; NORMAL, and SON-S. The NORMAL was identical with AB-test on the latest model).
14. UPPER HEAD COVER: Remove to Demagnetize or clean heads.
15. LOWER HEAD COVER: Remove to Demagnetize or clean heads.

Tandberg Series 6... Basic Specifications

INPUTS, SENSITIVITY and IMPEDANCE

Two microphones - .00125 Volt RMS 5 Megohm
Two High Level - .05 Volt RMS 1 Megohm
Two Low Level - .005 Volt RMS 100 K ohm

PLAYBACK OUTPUTS

With the output control-knobs set to max (6), the RECORDING LEVEL INDICATOR LIGHT BEAMS touch each other in A-test, and 5% distortion the Cathode Follower Output is adjusted to $1\frac{1}{2}$ Volts.

FREQUENCY RESPONSE, NARTB EQUALIZATION

7- $\frac{1}{2}$ I.P.S. 30 to 20,000 cycles (± 2 dB, 40 to 16,000 cycles)
3- $\frac{3}{4}$ I.P.S. 30 to 14,000 cycles (± 2 dB, 40 to 10,000 cycles)
1- $\frac{7}{8}$ I.P.S. 50 to 7,000 cycles (± 2 dB, 55 to 5,000 cycles)

DISTORTION

A recording level 10dB below maximum level results in 5/10 of 1% distortion of a 400 cycles signal when played back.

RECORDING AMPLIFIERS DISTORTION: 1/2 of 1% at maximum recording level.

PLAYBACK AMPLIFIERS DISTORTION: 2/10 of 1% at 1.5 V output and with a load impedance of 10,000 ohms or more.

BIAS AND ERASE CURRENT DISTORTION: 1/2 of 1%.

NOISE LEVEL

55dB below maximum recording level. Maximum recording level corresponds to 3% distortion.

BIAS AND ERASE FREQUENCY

80 kc, common bias supply to each recording channel.

WOW & FLUTTER

.15% RMS 7- $\frac{1}{2}$ I.P.S.
.2% RMS 3- $\frac{3}{4}$ I.P.S.
.3% RMS 1- $\frac{7}{8}$ I.P.S.

By clever design, maintaining unusually close tolerances in all moving parts, and custom matching of parts to each recorder, Tandberg achieves the smoothest tape motion of any 10" tape recorder.

SPEED ACCURACY

$\pm .2$ % or ± 3.6 seconds in 30 minutes, relative accuracy, repeated playback.
 ± 1 % absolute speed tolerance.

4-TRACK STACKED PLAYBACK HEAD; Designed for ideal playback characteristics of highest frequency response, plus maximum sensitivity, gap width .00012".

CROSS-TALK REJECTION: Better than 60dB.

TUBE COMPLEMENT

6- ECC-83 Tubes (7025)
3- ECC-82 Tubes (12AU7)
2- SELENIUM RECTIFIERS
2- EAM-86 Tubes

POWER REQUIREMENTS: 110-125-145-200-220-245 Volts, 60 Cycles, 65 Watts.

(Can be changed easily to 50 cycles operation by substitution of the cycles pulley and motor capacitor with 50 cycles motor pulley and motor capacitor.)

DIMENSIONS

Teak cabinet 16" long, 12" wide, 6" high.

WEIGHT

Instrument alone 25 lbs. With carrying case 30 lbs.

accessories

The following accessories are for use with MODEL 6 RECORDER and can be obtained at your Tandberg dealer.

Crystal Microphone Model CM-6. Manufactured by Tandberg, the CM-6 Microphone is matched to the Tandberg Recorder to make live microphone recordings with optimum quality. It has an omnidirectional pickup characteristic. The Frequency Response is from 20 to 15000 cycles \pm 3dB. It is furnished with a 12-foot microphone cable and plug and microphone stand as shown on the picture.



Professional Dynamic Microphone Model DP-4 Available in High, Low or Medium Impedance and supplied with 18 foot cable. This microphone is used for professional recording purposes.



Monaural Headphones Model TE-1. Constantly Stresses type for monitoring or private listening without disturbing others.



Remote Foot Pedal Switch Model 23FP. A durable action foot pedal switch with cord and plug to and supplied with 6-foot cable.



Telephone Pick-Up Model 125. Manufactured by Tandberg, it attaches to a telephone easily with a suction cup. No wire connections are necessary. With it you can record a telephone conversation. It is furnished with 12-foot cord and plug to connect to the 6 microphone input.



Transport Case Model TC-36. Attractive luggage-type case of simulated leather is exceptionally durable and light. Fitted with Chrome plated brass Locks and Key.
Size - 16 $\frac{1}{2}$ " x 13" x 7"
Weight - 3 lbs.
Color - Grey

