

SANSUI SC3003

FRONT-LOADING STEREO CASSETTE DECK WITH DOLBY



Sansui was *not* the first to introduce the front-loading format which appeared in stereo cassette decks a season or so ago. And for a very good reason: we felt that its obvious advantages were too often offset by poor tape transport stability and reduced tape-handling convenience.

Our engineers kept both these points in mind as they created the prototype of the front-loading SC-3003. The results

prove that the wait was worth it. Thanks to the use of a superior tape-transport mechanism, our all-new SC-3003 has a very high signal-to-noise ratio (50dB with Dolby* off) and low wow/flutter (0.09%). And because its front-access tape compartment is positioned right-side-up (unlike some other front-loading decks) you can easily read tape labels and observe tape movement for improved

tape-handling convenience.

Numerous other features—like the built-in Dolby, full auto-stop, memory rewind, selectable tape, separate output level control, LED peak-level indicator and others—make the SC-3003 a very attractive deck for its price. From Sansui, where it's *all* hi-fi.

*Dolby is a trademark of Dolby Laboratories, Inc.

Sansui

LOOK INTO SANSUI'S NEW SC-3003 WITH IC-DOLBY-CLEAR-VIEW, FRONT-LOAD CASSETTE CONVENIENCE

NEWLY-PERFECTED FRONT-LOAD FORMAT

FRONT-LOADING CONVENIENCE

The front-loading design of the SC-3003 lets you stack it under or over other components in your stereo system, saving space and handling time. The tape compartment is right-side-up so that cassettes are inserted and locked in place with their slotted edges down (in "normal" position). A new fail-safe insertion device, developed by Sansui (Pat. Pend.), prevents damaging misuse, and a built-in light lets you read labels and see tape motion in a darkened room.



REMOVABLE COMPARTMENT LID

The sturdy metal and plastic lid on the tape compartment can easily be removed, giving you plenty of room for head maintenance.

SOLID, DEPENDABLE MECHANISM

ELECTRONIC DC SERVOMOTOR

This highly dependable DC motor features high torque performance and long life. It is governed by a special electronic system for constant speed regulation regardless of changes in voltage supply or tape loads.



INDEPENDENT CAPSTAN DRIVE

Sansui's special design separates the capstan drive from the reel drive. The former has a high-inertia flywheel to keep capstan rotation smooth and even. The system also prevents capstan torque from affecting tape speed when loads

vary. Very low wow/flutter performance (0.09%) is assured with the use of a mirror-finished, slip-free drive belt of perfect flatness.

FULL AUTO STOP/SHUT-OFF

An electronic magnet/lead switch mechanism senses tape motion and immediately disengages the drive motor and returns all operating levers to the STOP position when your tape reaches either end.

SUPER-HARD PERMALLOY HEAD

Sansui uses this special recording/playback head of super-hard permalloy material because it resists wear longer (up to ten times longer, in fact) than conventional permalloy types yet retains the permalloy advantages of low distortion and high musical performance quality.





FEATURES FOR BETTER SOUND

IC EQUIPPED DOLBY CIRCUIT

Because the Dolby Type B noise reduction circuitry in the SC-3003 is constructed around an IC of the latest design, you never need adjust it. (For more about this newest Dolby, please see page 4.)

DIRECT-CHANGE MODE LEVERS

A fail-safe mechanism inside makes it possible to go from any mode to any other (i.e. REWIND to PLAY, PLAY to F-FORWARD, etc.) without going through STOP, and without stress on delicate machinery.

A MEMORY REWIND THAT REALLY WORKS

Extra sturdy and easy to read, the 3-digit tape index counter and Memory Rewind section lets you make "air checks" free of unwanted content.

OUTPUT LEVEL CONTROL

Fine adjustments of the output level (volume) of the SC-3003 are made easy with this front-panel control. It is particularly convenient when making

dubs (copies) of cassettes to another deck, or when playing tapes recorded with too-low or too-high levels.

INDEPENDENT LEFT/RIGHT RECORDING LEVEL CONTROLS

These separate, rotary-type level controls give you the freedom and flexibility demanded by professional audio engineers. They control both the Line and Microphone input circuits (although no mixing is possible).

WIDE DYNAMIC RANGE MIC CIRCUITS

The two (left/right) microphone input

jacks on the front panel connect to two mic amplifier circuits using two low-noise transistors each. These circuits feature a high signal-to-noise ratio and wide dynamic range, and accept up to +40dB peak level inputs without overloading.

RESPONSIVE VU METERS

The large and well-damped VU-type level meters on the SC-3003 are driven by an exclusive 2-transistor amplifier and show input and output levels accurately in the range of -20dB to +3dB.

LED PEAK-LEVEL INDICATOR

This LED (Light-Emitting Diode) flashes red to indicate (more quickly than any VU made) the instant any pulsive input signal over +6dB enters the recording amplifier. By adjusting input levels so that this LED flashes only occasionally you can make recordings with no trace of overload or clipping distortion.

LED MODE INDICATORS

Above the peak-level LED are two others to: (1) show when deck is in recording mode, and (2) when the Dolby noise reduction system is on line.

SELECTABLE EQ FOR NORMAL/CR₂

The equalizer amplifier in the SC-3003 is built around a 2-stage NF (Negative Feedback) circuit for stable and distortion-free performance. The TAPE SELECTOR switch on the front panel can be moved to the CHROMIUM position to switch the equalizer's values to the new time constant of 3180/70μs to take advantage of chromium dioxide tapes. Distortion is further reduced and dynamic range extended for clean hi-fi recordings.

RECOMMENDED EQUALIZATION BY BRAND AND TYPE

BRAND	POSITION	NORMAL (LH)	CHROMIUM	NORMAL (LH) for Recording CHROMIUM for Playback
AGFA		C-60, C-90 SUPER C-60 +6 SUPER C-90 +6	CHROMDIOXIDE C-60 CHROMDIOXIDE C-90	
BASF		C-60, C-90 (LH) C-60, C-90 (LN)	CHROMDIOXIDE C-60 CHROMDIOXIDE C-90	
FUJI		C-60, C-90 (FL) C-60, C-90 (FX)	C-60 (FC) C-90 (FC)	
MAXELL		C-60, C-90 (LN) C-60, C-90 (UD) C-60, C-90 (UD-XL)	CHROME DIOXIDE C-60 (CR) CHROME DIOXIDE C-90 (CR)	
MEMOREX		C-60 C-90	CHROMIUM DIOXIDE C-60 CHROMIUM DIOXIDE C-90	
SCOTCH		C-60, C-90 (LD) C-60, C-90 (LH)		CLASSIC C-60 CLASSIC C-90
SONY		C-60, C-90 (LOW NOISE) C-60, C-90 (HF)	C-60 CR C-90 CR	DUAD C-60 DUAD C-90
TDK		DC-60, DC-90 C-60, C-90 (SD) C-60, C-90 (ED)	KR C-60 KR C-90 SA C-60 SA C-90	

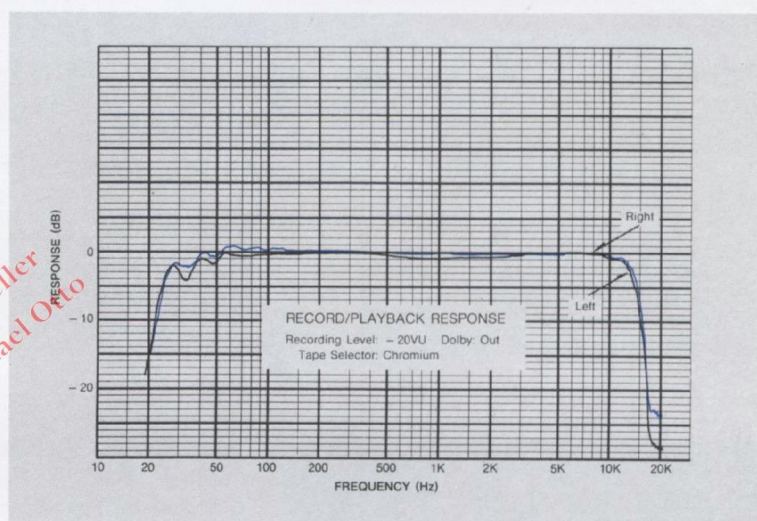
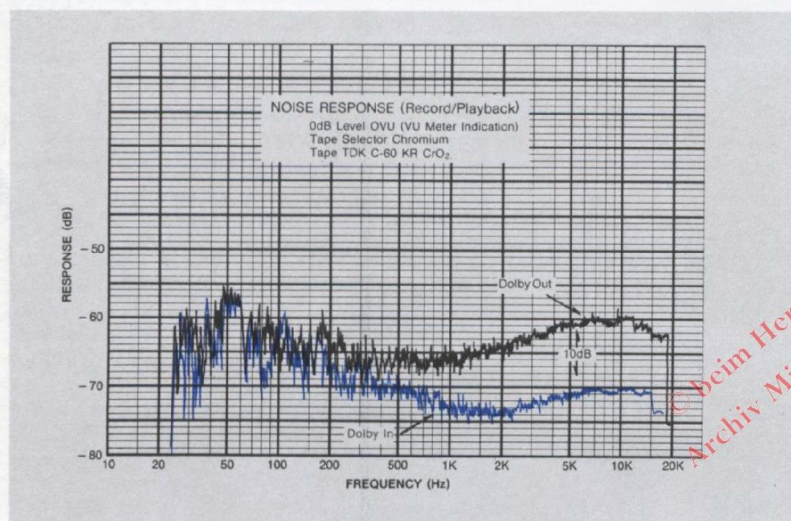
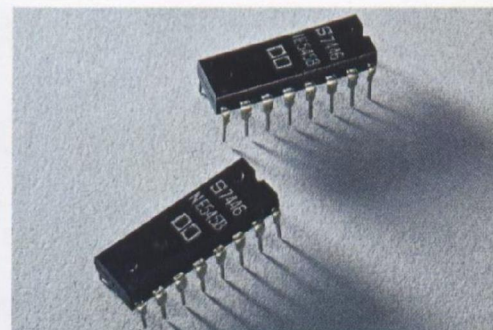
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NEW DOLBY TYPE-B ENDS ALL TAPE NOISE—YOUR EARS WILL SENSE THE IMPROVEMENT.

In addition to its superior tape drive system and high quality electronics which reduce wow and flutter and improve overall signal-to-noise, the Sansui SC-3003 features a dependable Dolby (Type-B)* Noise Reduction System formed around an IC. With the Dolby circuit engaged (by means of a front-panel switch), recordings can be made from any source which, on playback, exhibit a drastically reduced tape hiss and noise content. The reduction

of such unwanted noise is 10dB—a difference you can easily hear—and it works for quieter, clearer response or types of cassette tapes.

*Dolby is a trademark of Dolby Laboratories, Inc



SPECIFICATIONS

TRACK	4 Track (2-Channel) Record/Playback	SIGNAL TO NOISE RATIO (RECORD/PLAYBACK)	DIN	300mV (output control max. imp. 100k ohms)
TAPE SPEED	4.8cm/sec. (1 7/8 ips)	CHROMIUM	BIAS FREQUENCY	85kHz
HEADS	REC/PB Head (Super Hard Permalloy) Erase Head (Ferrite)	without DOLBY Better than 50dB (Weighted)	OTHER FEATURES	DIN Socket
MOTOR	Electronically Controlled DC Motor	with DOLBY Better than 60dB (Above 5kHz)	POWER REQUIREMENTS	
WOW & FLUTTER	within 0.09% (WRMS)	ERASURE FACTOR	VOLTAGE	100, 120, 220, 240V (50/60Hz)
FAST WIND TIME	Approximately 75 seconds (C-60)	More than 60dB (1kHz)	CONSUMPTION	12.5 Watts (Rated) 14.5 Watts (Max.)
FREQUENCY RESPONSE (RECORD/PLAYBACK)		INPUT SENSITIVITY AND IMPEDANCE (OVU, 1kHz)	SEMICONDUCTORS	24 Transistors, 2 ICs 18 Diodes, 3 LEDs
NORMAL TAPE (LH)	30 to 13,000Hz 35 to 11,000Hz ±3dB	MIC (LEFT, RIGHT)	DIMENSIONS	440mm (17 3/8") W 290mm (11 1/4") D 158mm (6 1/4") H
CHROMIUM TAPE	30 to 16,000Hz 35 to 13,000Hz ±3dB	LINE DIN	WEIGHT	8kg (17.6 lbs) Net 10kg (22.0 lbs) Packed
		OUTPUT LEVEL (OVU, 1kHz=160pwb/mm)		
		LINE		
		0.5mV 600— 10k ohms 70mV 100k ohms 4.3mV 8k ohms		
		300mV (output control max. imp. 100k ohms)		

Design and specifications subject to change without notice for improvements.