

PIONEER®

CT-F7171

Front-access Dolby stereo cassette deck with high-precision tape transport, Bias/EQ tape selector and LED peak level indicator.

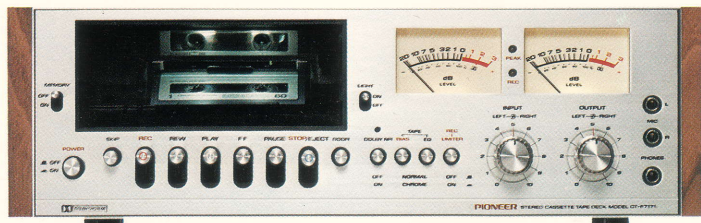


The new Pioneer CT-F7171 is proof positive of a new level of sophistication in stereo cassette deck design and performance. First, it is a front-access deck, with the tape compartment located on the front panel. This unusual design — blends perfectly with other Pioneer components and enables uniform in-rack mounting without wasting space or sacrificing convenience. The ingenious, jam-proof tape compartment positions a loaded cassette at a 30-degree angle to facilitate access; a switched compartment illuminator allows instant confirmation of tape condition and travel direction. Its front-access design also means that all switches, meters and controls are sensibly situated in logical, user-oriented relation to the tape compartment on the front panel. And the versatility of the Pioneer CT-F7171 is equally advanced. There is a built-in Dolby* noise reduction system, Bias/EQ switches for normal or special-type tapes, a switched Recording Limiter, LED recording and Peak Level indicators, Memory Rewind, a Skip Button for high-speed tape search, rotary level controls, and much more. As for performance, the Pioneer CT-F7171 exhibits minimum wow/flutter (less than 0.10% WRMS), thanks to its electronically-controlled DC motor and precision capstan (roundness error 0.1 μ), while its ferrite-solid head adds to your assurance of high signal-to-noise ratio, wide frequency range and minimum distortion. Advanced electronics and daring design — the front-access CT-F7171 stereo cassette deck with Dolby is altogether a new direction in hi-fi tape equipment, from Pioneer.

(*Dolby is a trade mark of Dolby Laboratories, Inc.)

CT-F7171

FRONT-CONTROL, FRONT-LOADING



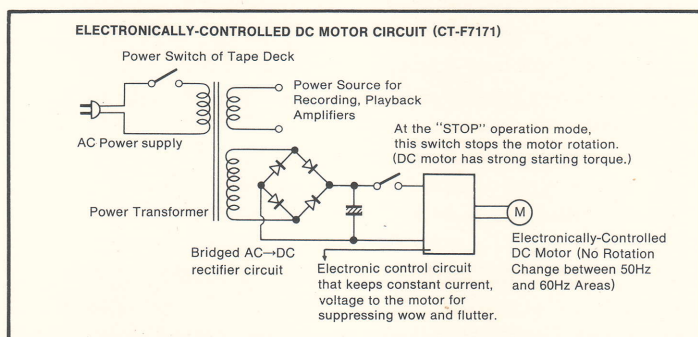
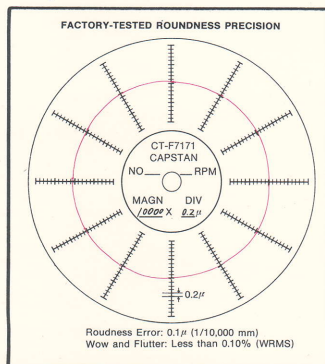
FRONT-ACCESS DESIGN

All necessary deck operations including tape loading and unloading, are performed on the front panel. This daring design—a new direction in cassette deck thinking—enables you to mount the CT-F7171 in a component rack or on shelves along with your receiver, tuner, amplifier or other components. There's no need to waste space by providing vertical (top) access to the tape compartment or controls. The ingenious, jam-proof tape compartment itself is slanted at an angle of 30° to facilitate confirmation of tape condition, aided by a switched compartment illuminator.



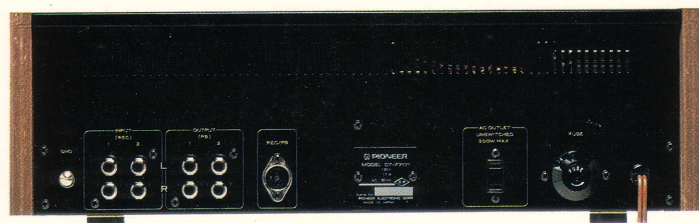
ELECTRONICALLY-CONTROLLED DC MOTOR

Stability of tape travel and reliability of transport mechanisms are the most decisive factors in high fidelity cassette tape deck performance. Pioneer therefore has applied the finest tape transport techniques available in the CT-F7171, a double-sure combination of a high-precision capstan shaft (roundness error 0.1μ) and a dependable DC drive motor electronically controlled with a kind of servo-mechanism using solid-state devices to maintain precise drive voltage and stable rotation unaffected by power supply fluctuations. As a result, the wow/flutter characteristics of the CT-F7171 have been reduced to a ratio of less than 0.10% (WRMS).

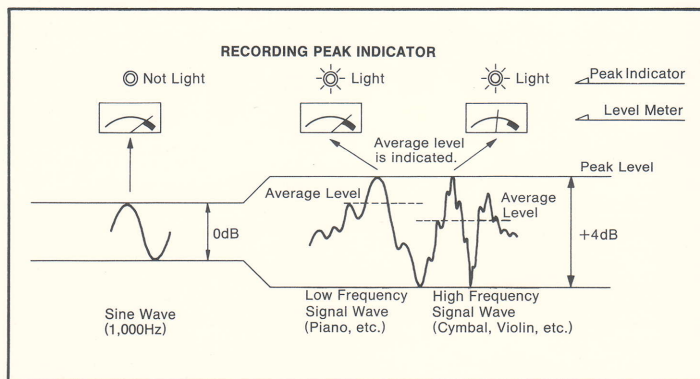
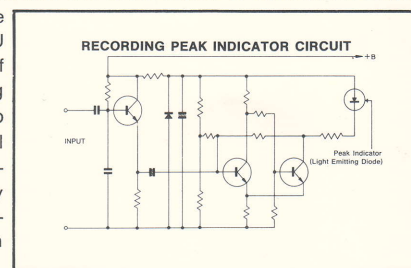


RECORDING PEAK LEVEL INDICATOR

Pioneer has developed a unique, simple-to-use Peak Level Indicator which detects the peak level of an incoming signal within a few milliseconds. The

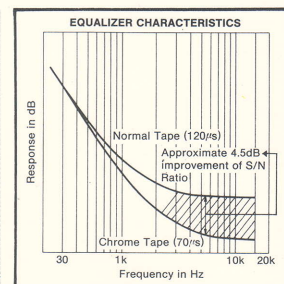


LED (Light-Emitting Diode) indicator will never flicker or burn out. It reacts more quickly and with more sensitivity than any level or VU meter to the exact level of transient peak signal reaching the recording head. It lights to warn you when the peak level of input is +4dB from reference level, particularly handy when making Dolbyized recordings with low-distortion and wide dynamic range.



SEPARATE BIAS AND EQ TAPE SELECTION

The CT-F7171 performs perfectly with any cassette tape you wish to use—standard, low-noise/high-output or the types which are coated with special chrome and/or ferrite compounds. There are two front-panel switches, each with two positions (normal/chrome); the BIAS switch provides optimum bias current for low-distortion, while the EQ switch controls the "70μs" playback equalizer in the CT-F7171 (for use with chrome dioxide tapes) to provide an improvement in the signal-to-noise ratio by approximately 4.5dB (over 5KHz) when measured against the normal "120μs" type.

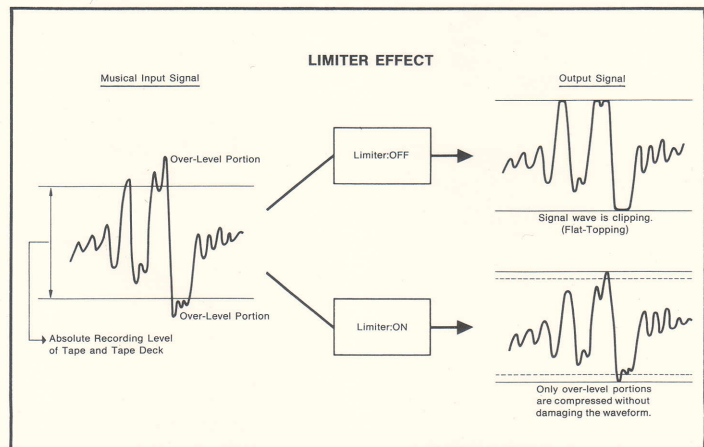
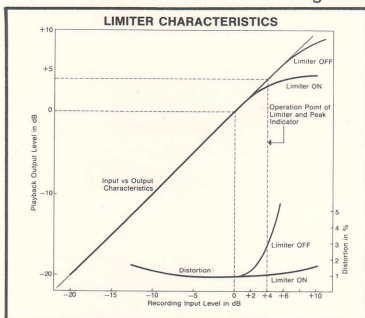


BUILT-IN DOLBY NOISE REDUCTION

Noise-free recording and playback performance are assured by the Type B Dolby circuitry in the CT-F7171. By boosting certain portions of the high-frequency spectrum during recording, and deemphasizing them during playback, "tape hiss" is almost completely eliminated while those high-frequency sounds you should hear are allowed to come through clean and clear. A separate Dolby indicator and a simple push-button Dolby switch provide all the control you need.

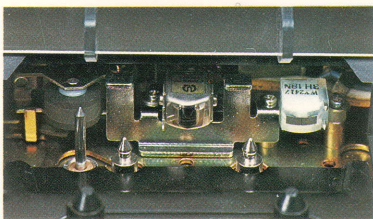
RECORDING LEVEL LIMITER CIRCUIT

Another simple-to-use front-panel switch handles the built-in recording level limiter circuit in the CT-F7171. Distortion caused by over-level signals during recording is avoided by first setting the input level to optimum (using the large level meters and the Peak Level Indicator), then switching on the automatic limiter. This is the same kind of circuit used in studio-type equipment, not the ALC (automatic level control) design found in portable type recorders, and is therefore suitable for high fidelity use.



HIGH-PERFORMANCE FERRITE-SOLID HEAD

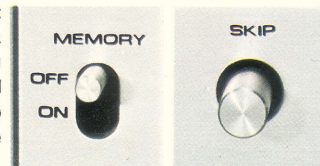
Extended recording and playback life, greatly improved fidelity and other advantages are assured by the ferrite-solid REC/PLAY head used in the CT-F7171. The surface of this extra-hard, precision-gap unit is mirror-finished so that a smooth, constant head-to-tape contact is maintained, even with stiff chromium dioxide tapes. The head material and design repel dust and have very small magnetic loss in the critical high-frequency region.



MEMORY REWIND AND SKIP BUTTON

The CT-F7171 is equipped with two additional convenience features. One is the Memory Rewind function: with the front-panel Memory switch "ON", set

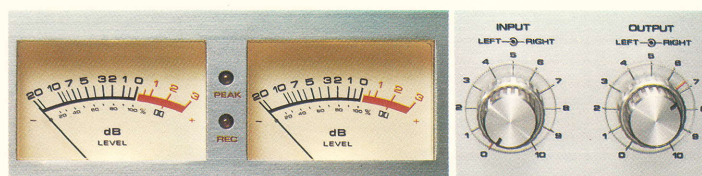
the three-digit tape counter to "000" at the point on the tape from which you want to record (or play). When the tape has been recorded (or played) as far as you want it to go, flick the rewind switch and the tape will return to the "999" position—in other words, to the place where you started. The handy Skip Button also is easy to use: with the deck in the playback mode, a touch of the Skip Button will allow you to hear (monitor) the recorded sound at twice-normal speed, helping you to quickly locate any portion of the tape you desire.



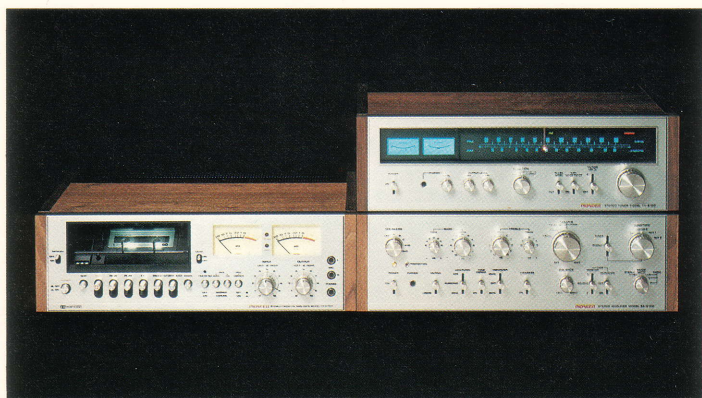
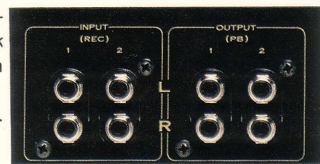
WIDE-DYNAMIC-RANGE RECORDING AMPLIFIER

To assure that your recordings are able to reproduce the widest possible range of audio signals, Pioneer has included a recording amplifier of wide dynamic range. Maximum allowable MIC input is 9V with sensitivity of 0.2mV. Maximum allowable LINE input is also 9V against a sensitivity of 60mV.

OTHER VERSATILE FEATURES



- (1) Standard-size professional microphone jacks (not the miniature pin-jack types) and stereo headphone jack on front panel.
- (2) Recording Peak Level Indicators. (LED)
- (3) Large, reliable level meters.
- (4) Rotary, friction-coupled input and output level controls for left and right channels with reference index markers.
- (5) Two pairs of input/output terminals, DIN standard jack and unswitched AC outlet (300W max.).
- (6) Distinctive front-access design, natural deluxe wood cabinet and metallic front. All dimensions matched for installation with other Pioneer high-fidelity components (amplifiers and tuners).



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CT-F7171 SPECIFICATIONS

Modes:	Compact cassette, 2-channel stereo/mono	Motor control section: Transistors; 2, Diode; 1
Recording System:	AC bias system (bias frequency: 85KHz)	Power Requirements: U.S.A. and Canada model; 120V 60Hz only or 110, 120, 130, 220, 240V (switchable 50-60Hz)
Erasing System:	AC push-pull system	*No need for pulley changing between 50Hz and 60Hz areas.
Heads:	"Ferrite Solid" recording/playback head x 1 Ferrite erasing head x 1	Power Consumption: 15 watts (max.)
Motor:	Electronically-controlled DC motor	Dimensions: 430(W) x 138(H) x 310(D) mm
Wow and Flutter:	Less than 0.10% (WRMS)	16-15/16(W) x 5-7/16(H) x 12-7/32(D) inches
Fast Winding Time:	Approximately 80 seconds (C-60 tape)	Weight: 8.5Kg/18lb. 12oz.
Frequency Response:	Standard tape; 30 to 13,000Hz (40 to 12,000Hz $\pm$ 3dB) Chromium dioxide tape; 30 to 16,000Hz (40 to 13,000Hz $\pm$ 3dB)	Additional Features: 1. Tape selector (NORM-CHROM) with independently-switchable bias and equalizer
Signal-to-Noise Ratio:	Dolby off; 48dB (standard tape) Dolby on; 58dB (over 5KHz, standard tape) *With use of chromium dioxide tapes, signal-to-noise ratio is further improved by 4.5dB over 5KHz.	2. Built-in Dolby system (ON-OFF) with indicator lamp
Harmonic Distortion:	Less than 2% (at 333Hz, 0dB)	3. Full-auto stop mechanism
Inputs		4. "SKIP" button that enables quick monitoring at twice-normal speed.
(sensitivity to maximum level/impedance):	MIC (6mm ϕ jack); 0.2mV to 90mV/20 Kohms *Low-impedance (600 ohms) microphones can be used. LINE (pin jack); 60mV to 9V/470 Kohms REC/PB (DIN jack); 6mV to 2.7V/10 Kohms	5. Recording LED peak indicators
Outputs		6. Recording limiter (ON-OFF)
(level/impedance, at meter 0dB):	LINE (pin jack); 300mV/50 Kohms REC/PB (DIN jack); 300mV/50 Kohms HEADPHONE (6mm ϕ jack); 40mV/8 ohms	*Operates at +4dB level from reference level
Semiconductors:	Amplifier section: Transistors; 37, Diodes; 23, ICs; 2, Zener Diodes; 5, Light Emitting Diodes; 2, FETs; 2,	7. Memory rewind switch (ON-OFF)
		8. Cassette bed illumination light and switch
		9. Two pairs of input and output terminals
		10. Independent recording and playback level controls with memory markers
		11. Wooden cabinet

NOTES:

*Frequency response is measured at -20dB level from meter 0dB level (reference level, 160pwb/mm).

*Signal-to-noise ratio is measured at +4dB level (equivalent to 250pwb/mm) DIN standard reference recording level and weighted.

*Distortion, input and output levels are measured at reference level. Reference tape is BASF C-90LH and reference signal is 333Hz.

NOTE: Specifications and design subject to possible modification without notice.



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