



MASTER CASSETTE DECK



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This booklet should be used together with the Owner's Manual of the TASCAM 122 (Manual No. 5700012100). When referring to the 122 manual for information on the 122-B, substitute the 122-B model name for the 122.

The guarantee of performance that we provide for the 122-B must have several restrictions. We say that the recorder will perform properly only if it is adjusted properly and the guarantee is that such adjustment is possible. However, we cannot guarantee your skill in adjustment or your technical comprehension of the manual. Therefore, calibration is not covered by the Warranty. If your attempts at adjustments such as rebias and record EQ trim are unsuccessful, we must make a service charge to correct your mistakes.

Recording is an art as well as a science. A successful recording is often judged primarily on the quality of sound as art, and we obviously cannot guarantee that. A company that makes paint and brushes for artists cannot say that the paintings made with their products will be well received critically. The art is the province of the artist. TASCAM can make no guarantee that the 122-B by itself will assure the quality of the recordings you make.

Your skill as a technician and your abilities as an artist will be significant factors in the results you achieve.

^{*}Dolby noise reduction and headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

This tape deck has a serial number located on the rear panel. Please record the model number and serial number and retain them for your records. Model number______Serial number The 122-B is a new version of the TASCAM 122 MASTER CASSETTE DECK which has enjoyed great popularity for its high performance, high 9.5 cm/sec. (3-3/4 ips) operating speed and extended headroom capabilities with Dolby^{*} HX. Provided with an input select switch and balanced-type input/output terminals, the 122-B is connection-compatible with equipment which are equipped with these balanced-type terminals. Except for some slight changes to the rear panel, the basic functions, operations and even the smart design of the front panel are the same as the 122.

With this booklet, we intend to explain the rear panel modifications and the functions of the newly added features.

Features and Controls

- OUTPUT (R, L) RCA jacks
 LINE (-1) IN (R, L) RCA jacks
 DBX UNIT terminals
 DBX UNIT CONTROL SIGNAL socket
 - Refer to the 122 manual.
- REMOTE control socket

OUTPUT (R, L) XLR-type connectors (+4 dBm BAL)

Use these OUTPUT connectors to feed the signals from the 122-B to your balance-type equipment (audio mixer, etc.). Nominal output is +4 dBm (1.23 V) and nominal load impedance is 600 Ω (balanced).

Maximum output level before clipping is +6.5 dBm (1.64 V).

Caution: Be sure not to use both pin 3 (Hot) and pin 2 (Cold) when making your own balanced-unbalanced conversion cable. Always use pin 1 (GND) and *either* of the other pins. (Never short-circuit pin 1 (GND) to pin 2 or 3). Also note that in such a case, the unbalanced output signals are about 6 dB lower than the nominal balanced output level.





Input Connector Wiring



@ INPUT SELECT switch (XLR/LINE-1)

This two position switch selects either the balanced line inputs connected to the INPUT connectors (XLR position) or the unbalanced inputs connected to the LINE IN jacks (LINE-1 position).

Signals which are input by selecting this switch are fed to the record/reproduce amplifier section via the INPUT switch on the front panel. Be sure to set it to the LINE 1 position (center) when XLR INPUT or RCA LINE IN input signals are used.

INPUT (R, L) XLR-type connectors (+4 dBm BAL)

The signals from other balanced-type equipment (your audio mixer, etc.) enter the 122-B through these connectors.

Nominal input level is +4 dBm. Input impedance is 600 Ω (balanced).

Note: Signals which are input through the XLRtype connectors are fed to the record/reproduce amplifier section via the INPUT SELECT switch (1) and the INPUT switch on the front panel. Therefore, be sure to set the INPUT SELECT switch to the XLR position and the INPUT switch to the LINE 1 position when the XLRtype connectors are used.



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MECHANICAL Philips Type Cassette C-60 and C-90 Tape: Track Format: 4-Track, 2-Channel Stereo Tape Speed: 1-7/8 ips and 3-3/4 ips ±0.5 % Deviation Speed Accuracy: 1-7/8 ips 3-3/4 ips ±0.5 % Deviation 1-7/8 ips1) ±0.085 % peak (DIN/IEC/ANSI weighted) Wow & Flutter: ±0.18 % peak (DIN/IEC/ANSI unweighted) 0.06 % (NAB weighted) 0.11 % (NAB unweighted) 3-3/4 ips2) ±0.055 % peak (DIN/IEC/ANSI weighted) ±0.13 % peak (DIN/IEC/ANSI unweighted) 0.04 % (NAB weighted) 0.07 % (NAB unweighted) Fast Wind Time: 90 secs, for MTT-501 (C-60) 1 FG Servo Controlled DC Motor Motor: 1 DC Reel Motor **Head Configuration:** 3 Heads; Erase, Playback/Record 19" x 5-13/16" x 13-9/16" (482 x 147 x 345 mm) Dimensions (WxHxD): 22-1/16 lbs (10 kg) net Weight: ELECTRICAL Line Input (XLR): Input Impedance: 600 ohms, balanced Nominal Input Level: +4 dBm (1.23 V) Minimum Input Level: -6 dBm (0.39 V) Maximum Input Level: +20 dBm (7.75 V) Line Input 1, 2 (RCA PIN): Input Impedance: 50k ohms unbalanced Maximum Source Impedance: 10k ohms or less -14 dBV (190 mV) **Nominal Input Level:** -24 dBV (60 mV) Minimum Input Level: Line Output (XLR): Output Impedance: 20 ohms, balanced Nominal Load Impedance: 600 ohms +4 dBm (1.23 V) Nominal Output Level: +6.5 dBm (1.64 V) Maximum Output Level: Line Output (RCA PIN): Minimum Load Impedance: 25k ohms or more, unbalanced **Output Impedance:** 3.5k ohms or less Nominal Output Level: -10 dBV (0.3 V) Maximum Output Level: -7.5 dBV (0.42 V) 100 mW, Maximum at 8 ohms Headphone Output: **Bias Frequency:** 100 kHz 1-7/8 ips 3180 µs. + 70 µs. Equalization: 3180 µs. + 120 µs. switchable 3-3/4 ips 3180 µs. + 35 µs. 3180 μ s. + 50 μ s. switchable 35 Hz - 14 kHz ±3 dB at -20 VU Frequency Response 3) 1-7/8 ips (Record/reproduce): 35 Hz - 6.3 kHz ±3 dB at 0 VU 35 Hz - 20 kHz ±3 dB at -20 VU 3-3/4 ips 35 Hz - 15 kHz ±3 dB at 0 VU 1 % at 0 VU, 1 kHz, 160 nWb/m 3 % at 9 dB above 0 VU, 1 kHz, 451 nWb/m Total Harmonic Distortion (THD) 3): 1-7/8 ips 3-3/4 ips 3 % at 10 dB above 0 VU, 1 kHz, 506 nWb/m Signal to Noise Ratio 3): At a reference of 3 % distortion level 58 dB weighted 1-7/8 ips 55 dB unweighted 92 dB weighted with DBX 3-3/4 ips 63 dB weighted 58 dB unweighted 92 dB weighted with DBX Better than 35 dB at 1 kHz Adjacent Channel Separation: Better than 65 dB at 1 kHz + 10 VU reference Erasure: Headroom: Better than 19 dB above 0 VU **Recording amplifier:** Better than 19 dB above 0 VU **Reproduce amplifier: Power Requirement:** 120 V AC, 60 Hz, 45 watts

In these specifications, 0 dBV is referenced to 1.0 Volt. Actual voltage levels also are given in parenthesis. To calculate the 0 dB = 0.775 Volt reference level (i.e., 0 dBm in a 600-ohm circuit) add 2.2 dB to the listed dB value; i.e., -10 dB re: 1 V = -7.8 dB re: 0.775 V.

1) Specifications were determined using TEAC Test Tape MTT-111

2) Specifications were determined using TEAC Test Tape MTX-111

3) Specifications were determined using TEAC Test Tape MTT-506

Changes in specifications and features may be made without notice or obligation.



122-B

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