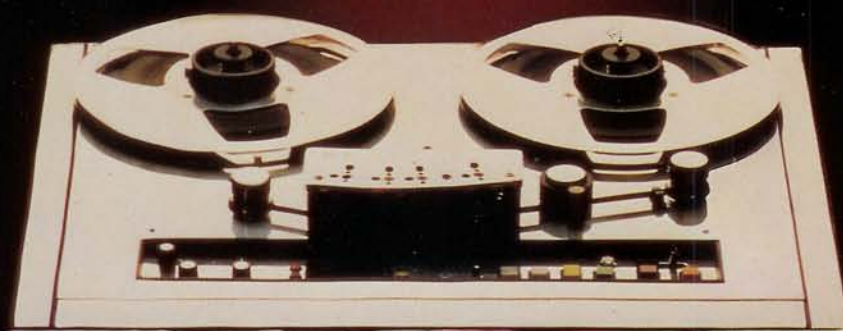


When you're hot,
you're hot.



JH-110-B...the hottest tape recorder made.

Sure, it's one of the most reasonably priced lines of tape recorders/reproducers in the industry, but don't buy the JH-110B just for the sake of economy. Buy it because it's the hottest tape recorder made today.

Just look at the standard features...timer/locator with four programmable memories plus return to zero function...readout in minutes and seconds or inches per second...three speeds plus variable speed... "plug in" ready wiring for interface to SMPTE/EBU synchronizer...touch sensitive manual velocity control.

Now think about how well and how easily the JH-110B works for you because of its overall design concepts...totally transformerless electronics for cleaner sound...plug-in modular circuitry for easy, inexpensive diagnosis and replacement of individual components...built-in accessibility for convenient maintenance and servicing...user-oriented design requiring minimal adjustments and alignment.

The JH-110B Series from MCI. Not one single line of professional recorders can provide all its standard features. Not one single line of professional recorders can offer all its design advantages. Not one single line of professional recorders can compete with its per dollar value.

In case you wondered, that's why we call the JH-110B the hottest tape recorder made today.

RTZ III.

Unlike any other recorder on the market today, the JH-110B comes standard with a built-in tape timer/locator with four programmable memories plus return to zero function. Reading out in real time, the RTZ III timer/locator can be used to accurately time spots or takes and to return to and automatically cue on zero or any of the other four memory



locations. Memories can be reprogrammed quickly and easily by manually "dialing" in the desired location or by loading from tape position in stop, play or wind modes.

The RTZ III also provides a tape velocity indicator (TVI) function offering an instantaneous and accurate readout of tape speed in IPS to two decimal places.

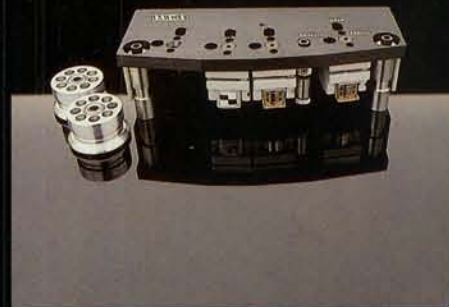
MANUAL VELOCITY CONTROL (MVC).

In addition to providing easy back and forth tape shuttling for one-hand cueing and editing, this touch activated "joystick" offers a way to protect your irreplaceable master tapes and expensive alignment tapes by limiting wind speed in rewind and fast forward modes.

Two edit modes are provided to meet your specific needs. In the "paper basket" edit mode, the edit button disposes of unwanted tape over the edge of the transport. In the "splicing" edit mode, the edit button disables reel tension and braking without attempting to take up slack tape. Using MCI's optional tape marker and scissors, edit marks can be placed exactly over the playback head for a precise 30° cut.

HEAD MOUNTING SYSTEM.

Completely unaffected by vibration or shock, the unique spring loaded



head mounting on the JH-110B offers ultra stable alignment for long term stability. Tape format changes can be made quickly and easily by lifting off the entire head assembly (only two

bolts to remove) and replacing the roller guides with comparable assemblies for the new format. A fourth head mounting is reserved for varying format heads to allow monitoring of 1/4 track stereo tapes on a professional 1/2 track format stereo recorder.

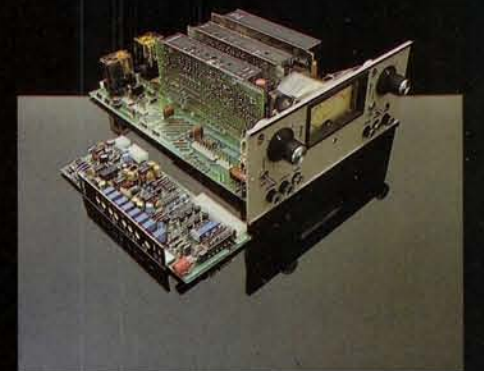
In addition to manually activated play head shield, the transport features a tape lifter defeat for high speed cueing. A scrape filter also is included on all head assemblies.

TAPE SPEED.

Designed with your need for flexibility in mind, the JH-110B features standard play speeds of 7 1/2, 15 and 30 IPS with speeds of 3 3/4, 7 1/2 and 15 IPS also

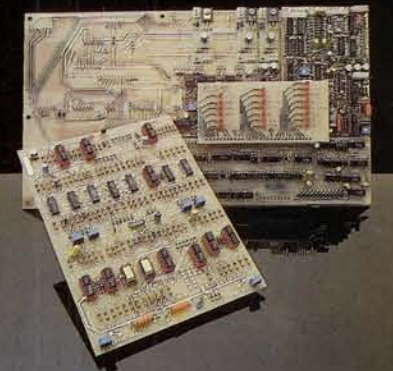
available. All three speeds are normally controlled by an on board crystal reference, but ± 20% variable speed is provided. The transport can also be controlled by an external voltage or frequency source.

Built into the transport is all circuitry required for use as a synchronous slave with the MCI JH-45 AutoLock SMPTE/EBU synchronizer. Tape tension for all play and wind speeds is servo controlled and constant from tape end to end.



TRANSPORT.

Logically laid out in terms of function, the JH-110B transport features modular plug-in circuitry based on the "mother" board concept. Each transport printed circuit board is a separate subsystem for easy diagnosis of problems and quick, simple repair. Utilizing the same printed circuit boards as the MCI JH-24 Multi-track System to minimize your spare parts stock, the JH-110B transport features separate boards



for the transport logic system, servo controlled analog torque system, servo controlled phase lock capstan drive system, indicator and interface functions and the various solenoid drivers. To simplify problem analysis, an optional annunciator board is available providing LED indications for all internal transport commands.

Alignments required are simple and

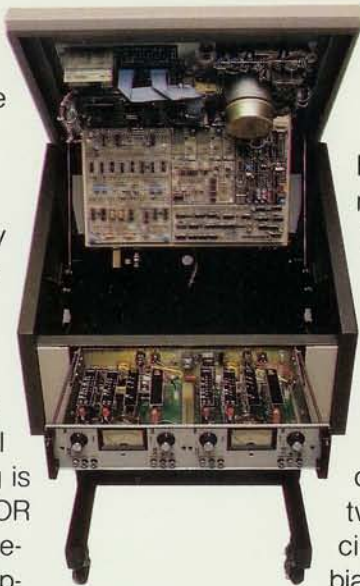


few -- left and right torque reference, phase lock and MVC sensitivity. No other routine maintenance or lubrication is required.

ELECTRONICS.

The fact that JH-110B electronics are totally transformerless means that you will notice significantly improved frequency response, signal-to-noise ratio, transient response, spurious RF rejection and hum rejection. Operational amplifier circuitry is used throughout and, with the exception of a fail safe relay for the record head, all switching is electronic. Because of MCI's exclusive QUIOR (quiet initiation of record) design feature, record punch in/out is noiseless, nonoverlapping and gap free. Remote record activation lines are provided for computer controlled editing systems.

Front panel controls are provided for repro, input or cue (synchronous) monitoring, safe and record ready functions and bias level monitoring. LED's indicate record ready, record and the equalization selected. Level controls for both repro and record include calibrate switches to select an internally presettable level. Illuminated VU



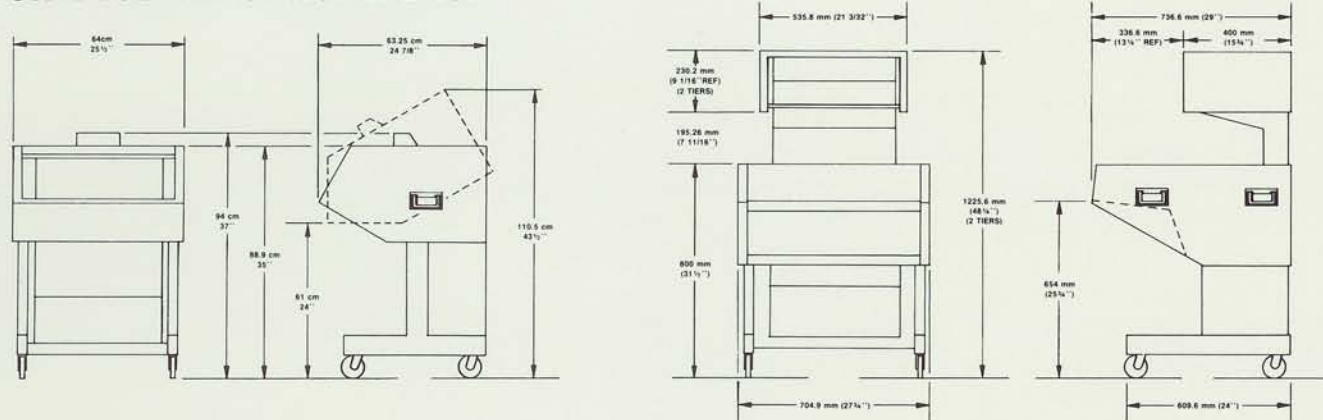
meters on each channel follow the selected monitor source.

Internal controls are provided for repro and record calibrated levels, repro high and low frequency equalizers, record equalizers and bias controls for each speed. NAB/IEC switching is independently provided for repro and record functions with no additional realignment required.

All electronics circuitry is mounted in pull-out drawer assemblies for easy access, with two channels to a drawer. Separate plug-in circuit boards are provided for repro, record, bias/erase and input/output buffering functions.

Transformers are optional on inputs and/or outputs for use where earth free or total DC isolation is required. The power supply is also modular with all active circuitry accessible either through the front access panel or rear mounted plug-in chimney/heat sink assembly. 110VAC/240VAC 50Hz/60Hz operation can be selected by the simple rotation of a plug/socket assembly and replacement of the mains fuse.

JH-110B Dimensional Data



FLEXIBILITY TO MEET YOUR NEEDS.

The JH-110B is available stock in mono, stereo, 4-track and 8-track formats for use with 1/4", 1/2" and 1" tape on reels from 5" up to 10 1/2" in diameter (14" diameter optional). Ready for mounting in the MCI variable profile (VP) cabinet with electronics under the transport or in the MCI high profile (HP) cabinet with electronics over the transport, it can also be mounted in your 19" rack or custom console. An optional accessory allows full remote control of stop, play, record, wind, lifter defeat, manual velocity control and return to zero functions.



1400 West Commercial Boulevard, Fort Lauderdale, Florida 33309 USA.
Telephone: (305) 491-0825. Telex: 514362 MCI FTL.