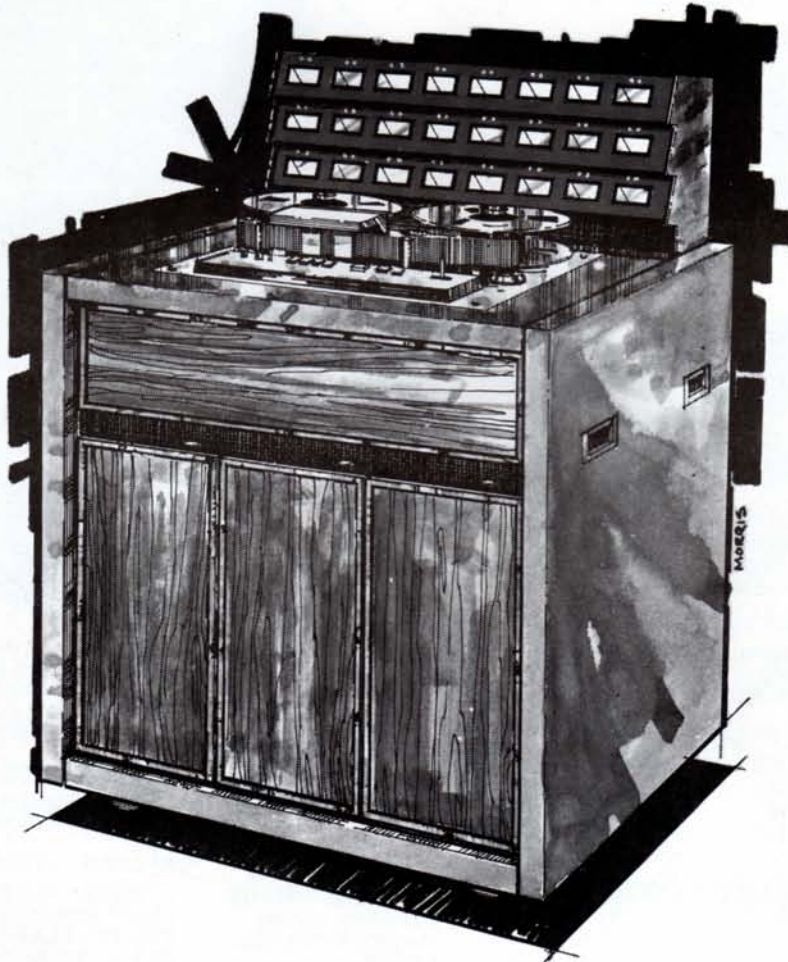




PROFESSIONAL STUDIO EQUIPMENT

JH-16



ONE INCH AND TWO INCH
MASTER TAPE RECORDER



4007 N. E. 6th Avenue, Ft. Lauderdale, Florida 33308
Phone: (305) 566-2853 Telex: 51-4362

JH-100 SERVO CONTROLLED TAPE TRANSPORT

IMPEDENCE ROLLER

HAS A MAGNETIC CLUTCH TO PERMIT DISENGAGING OF INERTIA IN FAST MODES.

SOLID STATE POWER

CONTROL CIRCUITS AND TTL LOGIC. DYNAMIC BRAKING USED EXCLUSIVELY EXCEPT FOR FAIL-SAFE AND IN EDIT, WHERE BAND BRAKES ARE EMPLOYED.

QUICK CHANGE HEADS

FOR FAST ONE INCH TO TWO INCH CONVERSION

SERVO CONTROLLED REEL MOTORS

ELECTRONICALLY CONTROLLED A.C. TORQUE MOTORS PROVIDE CONSTANT TAPE TENSION IN PLAY AND VELOCITY SERVOED FAST MODES.

RUGGED DECK PLATE

MACHINED FROM HIGHLY STABLE ½" JIG PLATE.

REAL-TIME TACHOMETER

PROVIDES LINEAR TAPE TRAVEL INFORMATION FOR THE REAL-TIME AUTO-LOCATOR. II

TAPE BREAK SENSOR

SENSES TAPE BREAK OR END OF TAPE OPTICALLY. USES FOCUSED LIGHT EMITTING DIODE AND INFRA RED SENSOR TO INSURE IMMUNITY TO ROOM LIGHT.

PHASE-LOCKED CAPSTAN MOTOR

PROVIDES THE ULTIMATE IN ACCURATE LONG TERM TAPE SPEED. TAPE SPEED IS NO LONGER A FUNCTION OF LINE VOLTAGE OR FREQUENCY. CAPSTAN SHAFT MACHINED FROM EXTREMELY HARD NON MAGNETIC CERAMIC MATERIAL. (See also Reference and Speed Selectors)

MANUAL VELOCITY CONTROL

MACHINE IN STOP MODE

HOLDING JOYSTICK CAUSES TAPE TO SHUTTLE IN EITHER DIRECTION AT ANY SPEED SELECTED WITH TAPE ON HEADS.

MACHINE IN FAST MODE

THE FAST WIND SPEED SERVOES TO WHATEVER SPEED THE JOYSTICK COMMANDED WHEN LAST TOUCHED.

EDIT BUTTON

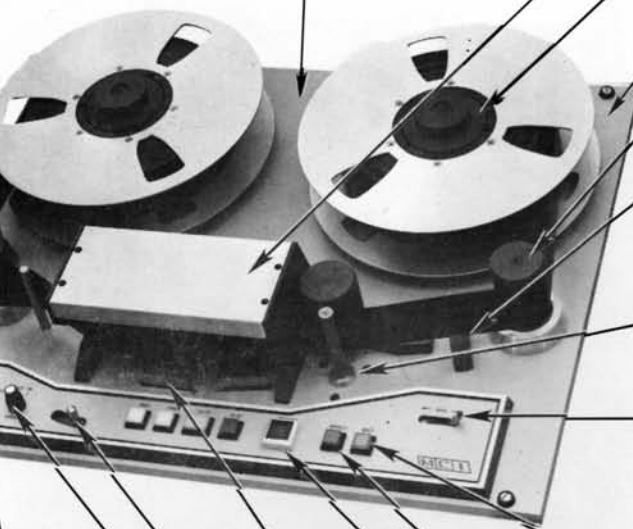
LIFTING TAPE OUT OF TAPE BREAK SENSOR AND PRESSING EDIT BUTTON CAUSES CAPSTAN TO RUN AND RIGHT REEL TO STOP. EDIT BUTTON ALWAYS LOWERS SHIELD INTO "LOCKED" POSITION.

SHIELD BUTTON

LOWERS SHIELD BUT REMOVES "LOCK". SHIELD THEN COMES UP WHEN PLAY OR STOP IS DEPRESSED.

RECORD BUTTON

PUSHING RECORD WHILE IN PLAY PUTS SELECTED CHANNELS INTO RECORD. PUSHING PLAY WHILE IN RECORD TAKES MACHINE OUT OF RECORD.



REFERENCE SELECTOR

VARIABLE - Permits a $\pm 20\%$ variation in the tape speed.
FIXED - Provides a Crystal Controlled Reference Frequency for the Capstan Servo
EXTERNAL - Provides wide range speed control using ± 5 volt external control signal. Permits interface for Audio-Audio and Audio-Video Lockup Equipment.

TAPE SPEED

TOP KNOB PROVIDES $\pm 20\%$ VARIATION IN VARIABLE MODE.
BOTTOM KNOB SELECTS TAPE SPEED OF 15 OR 30 I.P.S.

MANUAL LIFTER CONTROL

PROVIDES MANUAL CONTROL OF TAPE LIFTER. SHIELDS WILL LOWER WHEN LIFTER IS OPERATED MANUALLY.

AUTOMATIC TAPE LIFTERS & SHIELDS
OPERATE AS THE MACHINE CHANGES MODES.

JH-100 SPECIFICATIONS

TAPE WIDTH AND HEAD CONFIGURATION

One Inch - 8 Tracks
Two Inch - 16 Tracks
Two Inch - 24 Tracks

TAPE TENSION

6 Oz. at All Play Speeds
 $\pm 2\%$ for Line Variations from 105 to 140 Volts AC

TAPE SPEEDS

15 I. P. S.
30 I. P. S.

LONG TERM SPEED STABILITY (Beginning to End of Tape)

Less than 10 Hz. Change of 15 KHz Recorded Tone

FLUTTER AND WOW (15 and 30 I. P. S.)

Weighted Less than .05% Peak (DIN)
Unweighted Less than .1% Peak (DIN)

START TIME

.3 Seconds at 15 I. P. S.
.6 Seconds at 30 I. P. S.

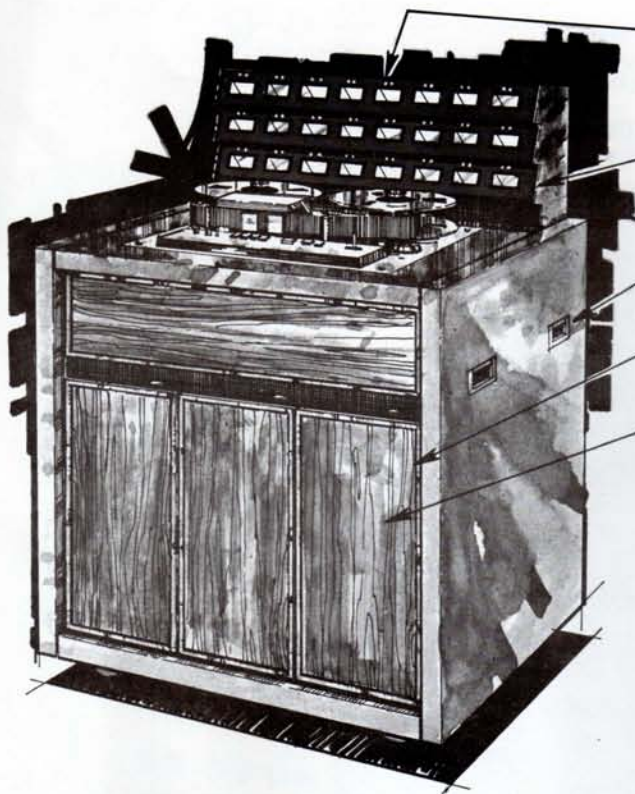
REEL SIZES

6" to 10.5" - NAB Hubs

REWIND TIME (For 2,400' Reel)

85 Seconds

JH-16 ELECTRONICS SYSTEM



NEW SMALLER SIZE

DIMENSIONS: 37.7" WIDE, 27" DEEP, 50" HIGH.

EXPANDABLE METER HOUSING

METER HOUSING EXPANDS FROM 8, 16, TO 24 TRACKS.

RECESSED CARRYING HANDLES

FOLD OUT CARRYING HANDLES FOR LIFTING UNIT OVER DOOR SILLS AND STEPS.

ROLL OUT DRAWERS

THREE ROLL OUT DRAWERS EACH HOUSE 8 CHANNELS OF MCI AUDIO ELECTRONICS.

CONTROL CARDS

HOUSE ADJUSTMENTS FOR REPRODUCE, OVERDUB, AI RECORD LEVELS.

NOISE GATE

AN OPTIONAL ACCESSORY WHICH PLUGS ONTO THE CONTROL CARDS. THE NOISE GATE REDUCES CHANNEL NOISE TO $< -80\text{DB}$ WHEN PROGRAM MATERIAL IS NOT PRESENT.

VU METER SWITCH

SWITCHES VU METER TO READ BIAS LEVEL.

REPRODUCE AMPLIFIER CARDS

HOUSE A PLUG IN EQUALIZER WITH ADJUSTMENTS FOR FAST AND SLOW SPEED, HIGH AND LOW FREQUENCY EQUALIZATION.

RECORD AMPLIFIER CARDS

HOUSE A PLUG IN EQUALIZER WITH ADJUSTMENTS FOR FAST AND SLOW HIGH FREQUENCY EQUALIZATION AND RECORD CALIBRATION.

BIAS AMPLIFIER CARDS

HOUSE THE ADJUSTMENTS FOR ERASE, BIAS AND BIAS CALIBRATE.

STRIP BOARDS

FOR EACH CHANNEL PROVIDE FOR ALL INTER-CONNECTIONS BETWEEN CARDS AND ELIMINATE MANY WIRING PROBLEMS.

HEAVY DUTY 4" INDUSTRIAL CASTERS

ELECTRONICS SPECIFICATIONS

FREQUENCY RESPONSE
(15 and 30 I.P.S.)

Reproduce — — 30 Hz to 16 KHz ± 2 db
Cue — — — — 30 Hz to 16 KHz ± 3 db

SIGNAL TO NOISE
(Unweighted)

Reproduce — — 64 db Below +4 dbm
Cue — — — — 60 db Below +4 dbm
Record and Erase Less than 3 db
Increase Over Bulk Erased Tape

INPUT

Level — — — — -20 dbm (Minimum)
Impedance — — 20K (Nominal) Balanced

OUTPUT

Level — — — — 0 VU = +4 dbm
Impedance — — — 600 Ohm Balanced
Line Amp Clipping +24 dbm

EQUALIZATION

NAB Automatically Switched by Deck Speed Switch

BIAS OSCILLATOR

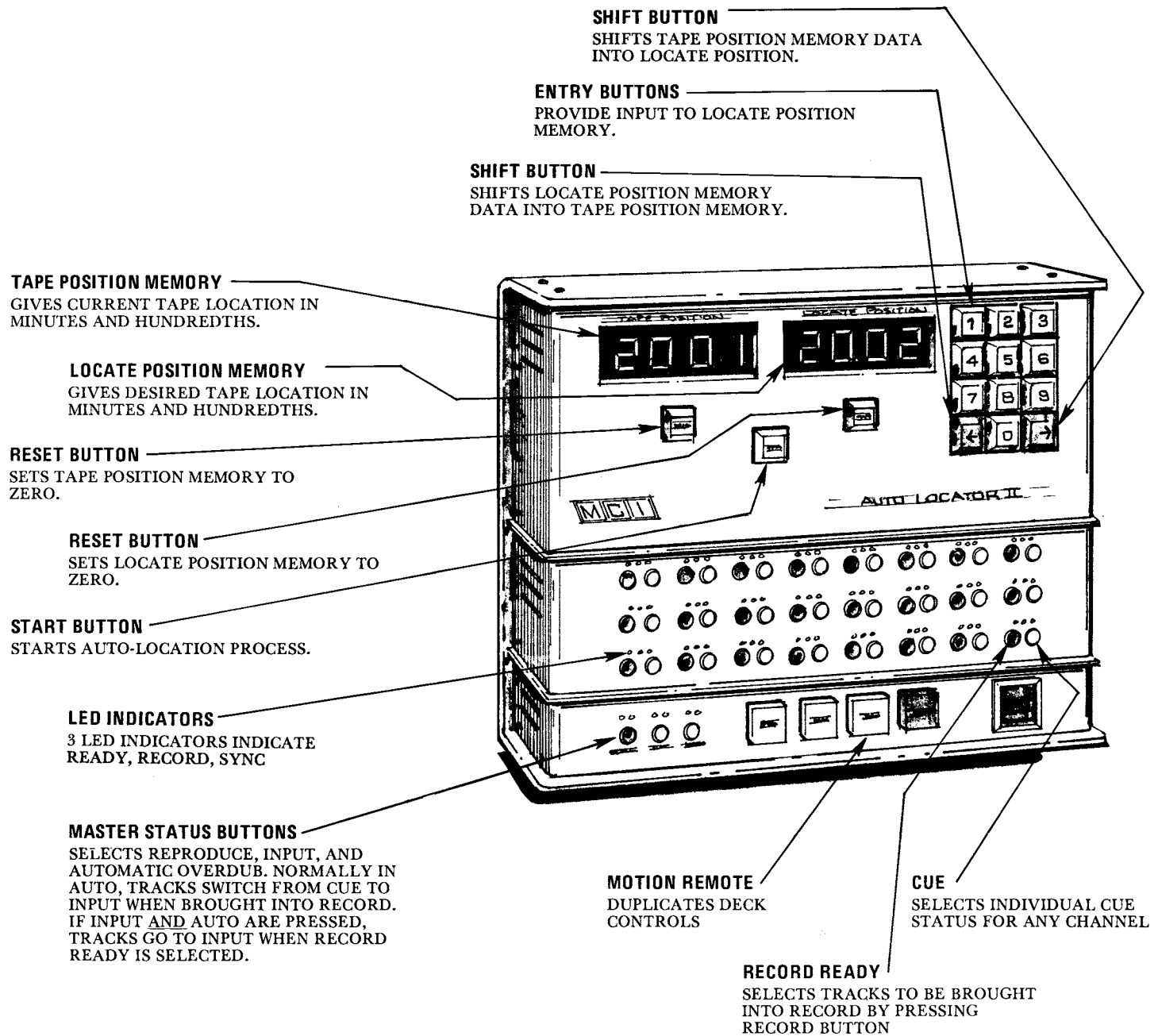
Frequency 120 KHz

IM DISTORTION

1.5% Measured at 350 nw/M,
15IPS using 206 or 406 tape.

MCI AUTO-LOCATOR

THE AUTO-LOCATOR II USES SOPHISTICATED ARITHMETIC LOGIC TO ALLOW A VELOCITY PROPORTIONED APPROACH TO BE MADE TO ANY ARBITRARY POINT, FROM ANYWHERE ON THE TAPE, IN EITHER DIRECTION, IN REAL TIME, AND WITHOUT OVERSHOOT.



SYSTEM SPECIFICATIONS

SIZE:	JH-16 CONSOLE – 37.7" Wide, 27" Deep
	8 TKS – 42.5" High
	16 TKS – 46.25" High
	24 TKS – 50" High
	REMOTE – 11.5" Wide, 5" Deep
WEIGHT:	JH-16 CONSOLE – 405 lbs. (Shipped)
	JH-24 CONSOLE – 575 lbs. (Shipped)