Model 5050 MARK III/2
1/4" Two Channel Recorder

The Otari 5050 MARK III/2 is a compact, tabletop console recorder in the 1/4" two channel format. The optimized three head design and transformerless balanced inputs and outputs provide superior frequency response, distortion and signal-to-noise performance under professional studio conditions.

The Capstan motor is under servo control and is switchable between 15/7.5 ips and 7.5/3.75 ips speed pairs. Proprietary microprocessors govern tape handling and the real-time electronic counter which features an HRS/MINS/SECS L.E.D. display that is tape accurate at all speeds.

Front panel access is provided for record setup adjustments and a built-in oscillator provides 1 kHz and 10 kHz tones.

The multipin interface connector permits easy connection to SMPTE based controllers and synchronizers.

The extremely rugged mechanical construction includes a 1/4" deckplate with cast aluminum side panels and steel support members. All circuit boards are designed to swing out or unplug for full service access.

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The MARK III/2 is compatible with all dbx® noise reduction products.

- Transformerless balanced inputs and outputs with XL type connectors.
- Line output switch selectable for ±4 dBm or ±10 dBV level.
- Mic input has switch selectable 20 dB pad and mute.
- Mic/line mixing on each channel.
- CB-116 Auto-locator are available as options.
- Zero Return button operational from positive or negative tape locations.
- Dump Edit and Cue (lifter defeat) modes.
- D.C. servo-controlled capstan motor, servo controlled.
- Built-in test oscillator (1 kHz, 10 kHz) and built-in test oscillator (1 kHz, 10 kHz).
- Standard Accessories: Reel holding knobs, "1/4" x 10" empty NAB reel, operation manual and power cord.
- Optional Accessories: CB-118 Auto locator.

5050 MARK III/2 1/4" TWO CHANNEL SPECIFICATIONS

**TRANSPORT**

- Tape Width and Channels: 1/4" (8.3mm) tape, 2 channel
- Tape Speeds: 15, 7.5 ips or 7.5 and 3.75 ips internally switchable speed pairs
- Maximum Speed Deviation: ±0.2%
- Reel Size: 1/4", x 5, 7 or 10.5" EIA or NAB
- Heads: Erase (half track), Play (quarter track)
- Motors: D.C. servo-controlled capstan motor
- Two induction reel motors
- Rewind Time: Less than 90 seconds for a 2,400' reel
- Pitch Control: Variable within ±7%
- Wow and Flutter: 15 ips, less than 0.04%.
  7.5 ips, less than 0.07%
  3.75 ips, less than 0.08%

**ELECTRONICS**

- Connectors: Line input, Mic input and Line output: standard three pin XL type, Microphone standard 1/4" phone jack
- Inputs: Line = Active, balanced, 10 kOhms
  Mic = Active, balanced, available. 150 Ohms to 10 kOhms
- Switchable 20 dB pad and mute
- Outputs: Active, balanced 5 Ohms source impedance
  ±27 dB (ref 0.775 V) into 600 Ohms or more
- Signal-To-Noise Ratio: 15 ips 72 dB unweighted
  7.5 ips 72 dB unweighted
- Equalization switch selectable (NAB, IEC)
- Reel Size switch selectable (5", 7", 10.5") EIA or NAB
- Low frequency reproduction: ±adjustable
- Fourth head switch selectable for 3/4 track stereo playback.
- Internal blocking of picture negative signal.
- Two induction reel motors
- Transformerless balanced inputs and outputs with XL type connectors.