

**AMPEX**

# AG-440C-8 master recorder reproducer

The Proven Performance  
Excellence of the AG-440 Series  
in an 8-Track, 1" Version

## Quality Features and Improvements

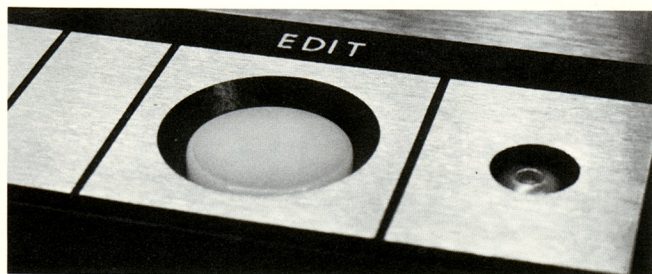
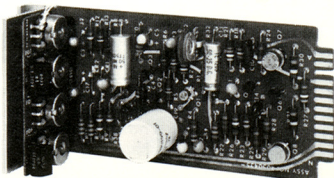
- Automatic Monitor Switching
- Improved Sel-Sync\* Response
- Pushbutton Electronics Controls
- Calibrated Record/Reproduce Controls
- Capstan Servo
- Motion Sensing
- Improved Edit Mode

The only recorder that allows you the increased production versatility of eight-track mastering — at low cost — with uncompromising quality. The AG-440C-8.

The Ampex AG-440 Series has been a long-time pacesetter in the industry, and the AG-440C-8 is the latest addition to this distinguished line of recorders. It incorporates refinements required by our many sophisticated customers around the world, plus important new design improvements innovated by Ampex engineers. In short, we've taken the best — and made it a little better. The AG-440C-8: the finest eight-track machine available today.

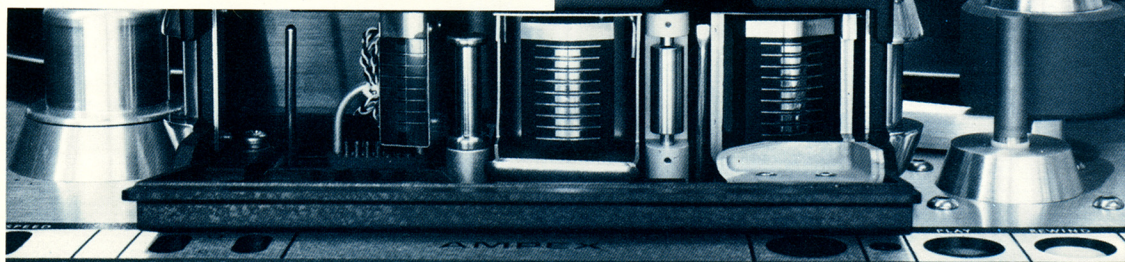
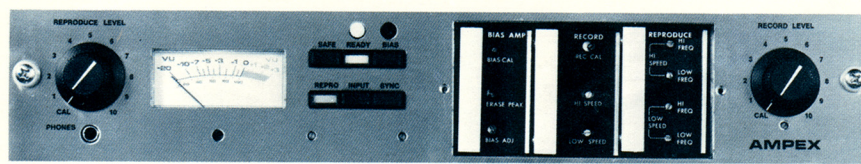


**Sel-Sync Response** has been improved at 15 in/s making ping-ponging a routine operation. Typically,  $\pm 2$  dB, 20 to 12,000 Hz. **Automatic Switching** has been incorporated in the Sel-Sync mode — when a channel being reproduced with the Sel-Sync synchronizer is put into record, the output switches automatically from monitoring the Sel-Sync output to monitoring input.



**Improved Edit Control** When the edit button is pushed the main brakes are released, and only very light braking is applied. It is no longer necessary to hold up the tension arm when the brakes are released, and the tape may be spilled without threading through the tension arm.

**Manual Controls and Adjustment Points** are logically arranged for the utmost ease of operation. **Indicator Pushbuttons** have been introduced for improved display and easier selection of electronics operating functions. **Calibrate Positions** have been added on both record and reproduce controls — greatly simplifying adjustments and maintenance. **Electronic adjustments accessible from the front** include: equalization, reproduce calibration, record calibration, bias adjustment, bias calibration, erase adjust and Sel-Sync calibration.



**Capstan Servo** is standard equipment assuring timing accuracy when it is of critical importance. It will accept an external reference signal for variable speed control. **Motion Sensing** allows the operator to go directly from fast wind, to stop, to play mode without waiting for the tape to coast to a stop. Play mode automatically follows when motion ceases. **High Torque Reeling Motors** assure that the extra weight of the 1" tape is handled with ease.

## Specifications

### TAPE SPEEDS

7½, 15 or 30 in/s (any pair may be selected by servo strapping).

in/s	cm/sec
7½	19.05
15	38.10

### FREQUENCY RESPONSE

30 in/s  $\pm 2$  dB, 50-20,000 Hz  
 15 in/s  $\pm 1$  dB, 100-15,000 Hz  
 $\pm 2$  dB, 30-20,000 Hz  
 7½ in/s  $\pm 1$  dB, 50-10,000 Hz  
 $\pm 1$ ,  $-2$  dB, 30-15,000 Hz

### SIGNAL-TO-NOISE RATIO

30 in/s, 65 dB. 15 in/s, 63 dB. 7½ in/s, 64 dB.  
 Peak record level to unweighted noise (30 to 18,000 Hz). Includes bias, erase and playback amplifier noise using Ampex 406 series or equivalent tape.

### CROSSTALK

Better than 65 dB at 1,000 Hz

### FLUTTER

Measured per ANSI 4.3  
 30 in/s: Below .05% RMS Unweighted  
 15 in/s: Below .06% RMS Unweighted  
 7½ in/s: Below .08% RMS Unweighted

### PLAYBACK OUTPUT

+8 dBm into 600 ohm restrapable for  $\pm 4$  dBm output, balanced and unbalanced. Maximum of +28 dBm before clipping. Internal impedance, 130 ohms. (150 ohm output selectable by switch. Clip level 10 volts, internal impedance 33 ohms.)

### RECORD INPUT

100K ohm unbalanced bridging with dummy plug supplied or 20K ohm balanced bridging with plug-in transformer supplied with each electronics ( $-17$  dBm produces recommended operating level.)

### START/STOP

START: tape at full speed in less than ½ sec. STOP: at 15 in/s, tape moves less than 3 inches after pressing stop button.

### PLAYBACK TIMING ACCURACY

$\pm 0.2\%$  ( $\pm 3.6$  seconds in 30 minutes recording time.)

### MOUNTING CONFIGURATIONS

Console (Electronics above transport).

### TAPE WIDTH

1" Tape.

### REEL SIZE

Standard up to 10½ inch reels, adjustable up to 11½ inch reels.

### EQUALIZATION

All standard models supplied with NAB equalization (AES for 30 in/s). IEC (CCIR) equalization available on special order.

### REWIND TIME

Approximately 1 minute for 2400 foot NAB reel.

### POWER REQUIREMENTS

117 Volts nominal 50/60 Hz, @ 4.6 amps. Machines are supplied with 3 wire grounding power cord.

### DIMENSIONS

Standard 19" wide panels with commercial notching for rack mounting. Tape transport; Uses 1½ inches of rack space (10½" NAB reels overhang 1½ inches from side edges and 2½ inches above transport). Electronics: 28 inches of rack space. Console: 65" high (to top of electronics housing) 24½" wide, 30" deep.

# AMPEX

Ampex Corporation, Audio-Video Systems Division  
 401 Broadway  
 Redwood City, California 94063

**U.S. Sales Offices in:** CALIFORNIA, Los Angeles (213) 240-5000 • GEORGIA, Atlanta (404) 451-7112 • ILLINOIS, Chicago (312) 593-6000 • MARYLAND, Bethesda (301) 530-8800 • MASSACHUSETTS, Boston (617) 890-2040 • NEW JERSEY, Hackensack (201) 489-7400 (in New York City 736-6116) • OHIO, Dayton (513) 254-6101 • PENNSYLVANIA, Philadelphia (215) 887-7650 • TEXAS, Dallas (214) 637-5100 • Sales and Service Companies throughout the world.

**International Sales or Service Companies:** ARGENTINA, Buenos Aires, 46-9029 or 40-7881 • AUSTRALIA, Sydney, 439-4077 • BELGIUM, Nivelles, 067/249.21 • BRAZIL, Rio de Janeiro, 242-3795 • CANADA, Bramalea, (416) 453-3100 • COLOMBIA, Bogota, 48-82-43 and 41-43-84 • ENGLAND, Reading, 85200 • FRANCE, Boulogne, 603-4651 • GREECE, Athens, 922-2094 • HONG KONG, Kowloon, K-678051-3 • ITALY, Rome, (06) 5138341 • JAPAN, Tokyo, 264-7331 • LEBANON, Beirut, 340-820 • MEXICO, Mexico City, 539-68-70/71/72 • NETHERLANDS, Zamenhofdreef, 030-61.29 21 • SWEDEN, Sundbyberg, 08/28 29 10 • SWITZERLAND, Fribourg, 22.73.31 • WEST GERMANY, Frankfurt (Main), 60581