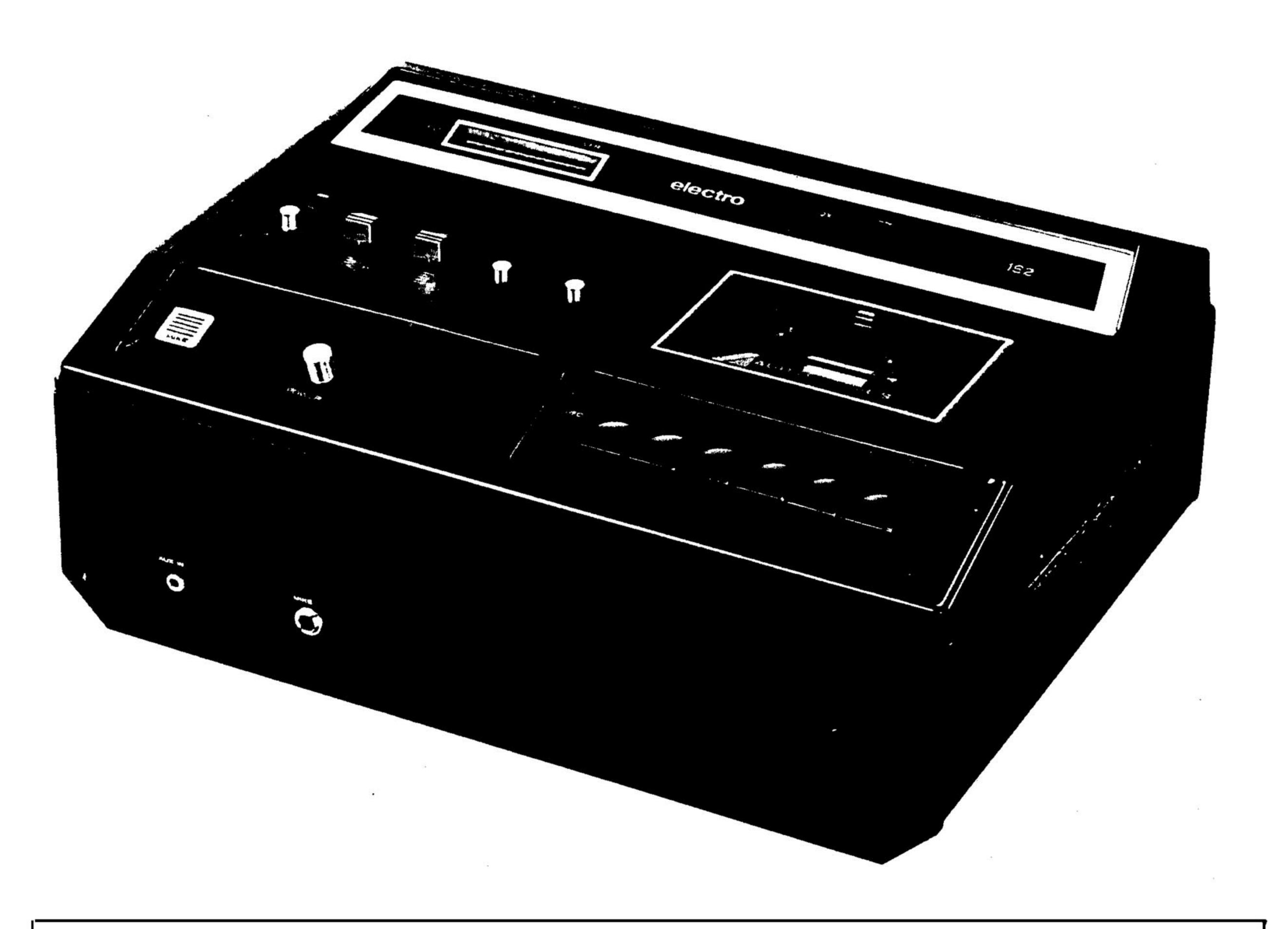
# MODEL 162



#### SPECIFICATIONS

#### **EXTERNAL CONTROLS**

ALC Defeat (ON/OFF Slide)

Monitor (ON/OFF Slide)

Power (ON/OFF Push Sutton)

JACKS, AUDIO

External Microphone Input ¼" Standard, Imp. 500 Ohms Auxiliary Input:..3.5mm Min; Imp.-100K, Sensitivity 100 MV Headset/Speaker: .¼" Standard, For Headset Listening Or 8 Ohm Speaker

Line Out: . 3.5mm Min

## **GENERAL**

Power Requirements . 120V RMS. 50/60Hz, 16W AC Output . . 1 O/l 8 Watts; Per ANSI PH 7-2-74 Power to Noise Ratio . . 45 dB Signal Unweighted Wow & Flutter .. 0.2% Less Than System .. AC Bias, AC Erase Recording Bias Frequency . 50 KHz. Approx. Tape Speed 1% IPS (4.76 CM/SEC) fast Forward/Rewind Time 80 Sec/C60 Cassette Frequency Response 40-10,000 Hz ± 3dB Speaker 10" Oval Dual Cone 6½" X 14" X 10" (16.5 cm X 35.6 cm X 25.4 cm) Dimensions 121/2 Weight Lbs (5.67)KG)

'All specifications subject to change without notice.

### **SERVICE GUIDE**

The Audiotronics 162 tape recorder is designed to be virtually intenance free. However, during normal operation, dust, dirt, tape idue and evaporating oil forms a scum which builds on the heads, belts, idlers and capstan and degrades the recorder's performance. The following maintenance suggestions are recommended:

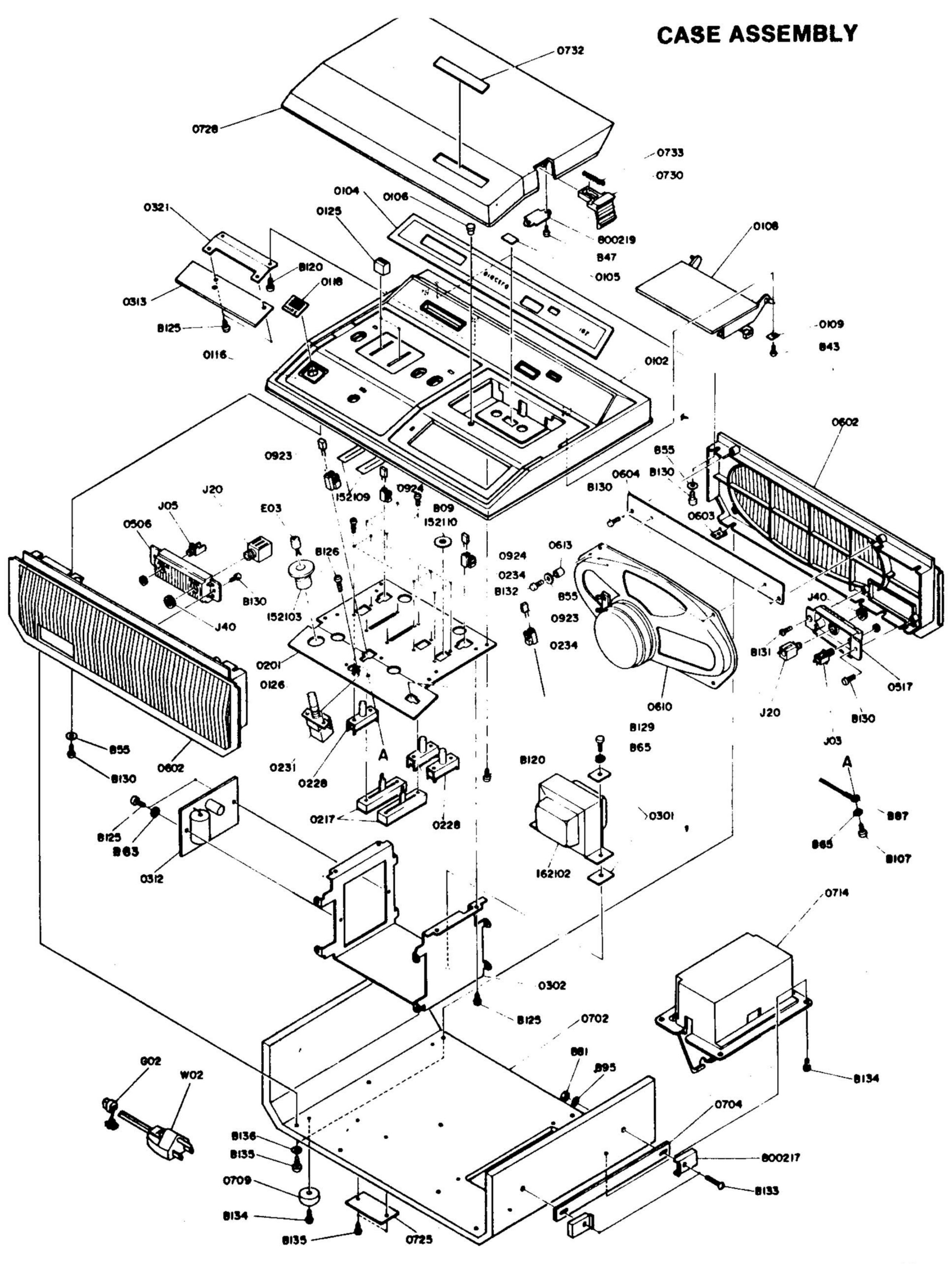
- A. Heads should be cleaned monthly, during heavy usage, or at regular intervals.
- B. Pressure rollers and capstan should be checked routinely and cleaned of any residue build-up.
- C. Drive belts, idlers and pulleys should be checked yearly for wear and cleaned (or replaced) as needed.
- D. Smooth movement of recorders' mechanical components insures dependable operation. All sliding parts which come in contact with each other should be cleaned and re-lubricated. CAUTION: Avoid excessive oiling and prevent any lubricant from contacting belts, idlers or capstan.
- E. Check bias adjustment (see AC bias) during any major routine maintenance.
- F. Check azimuth adjust (see azimuth adjustment) during any major maintenance or cleaning of head.
- G. During normal use Erase and Record/Play Heads may become magnetized. This causes distorted sound and noisy recordings. Run a head demagnetizer (Degausser) slowly across the head to effectively eliminate any residual magnetism on the head.

#### 1.0 AC BIAS

- A. Place VTVM across resistor R51.
- B. With recorder in record mode, adjust R73 (bias control) for 3.5 mv rms across R51. This provides recommended 350 μa bias current.
  - NOTE! Due to normal variance in head resistance, above method is recommended to maintain peak performance in the recorder.
- C. The AC bias current should be adjusted whenever play/record head is changed, or during routine maintenance, for optimum performance.

#### 2.0 AZIMUTH ADJUST

- A. Low sound output, especially in high frequency, is usually a result of incorrect head azimuth.
- B. Observe recorder's output on a scope or R.M.S. meter.
- C. Adjust record/play head H16, during play mode, for maximum output using a standard pre-recorded azimuth tape. Any frequency between 6.3KHz and 10KHz is acceptable with 10KHz being recommended to insure peak performance.
- D. The head adjusting screw is accessible through small hole, on the top panel, immediately below the cassette door.
- E. Azimuth adjustment is made whenever a record/play head is changed and during routine maintenance for optimum performance.



## **MODEL 162 TAPE TRANSPORT**

