

TO JOHN FRENCH  
 WITH BEST REGARDS  
 Joe Dundovic  
 1-28-03



*John French accepting the last head manufactured by Nortronics from company founder Joe Dundovic.*

**INDEX**

**APPLICATION NOTES** ..... 2-9

I. MAGNETIC HEAD CONSIDERATIONS ..... 2

A. RECORD/PLAYBACK HEADS ..... 2

1. LOW FREQUENCY RESPONSE

2. TAPE WRAP

3. HIGH FREQUENCY RESPONSE

4. AZIMUTH, GAP AND SPACING LOSSES

5. SELF-RESONANT FREQUENCY

6. CROSSTALK REJECTION

7. COIL PHASING AND POLARITY

B. ERASE HEADS ..... 5

C. Z-COMBO HEADS ..... 6

D. HIGH SPEED DUPLICATORS ..... 6

II. RECORD AND PLAYBACK CIRCUIT CONSIDERATIONS ..... 7

A. TYPICAL RECORD CIRCUITRY ..... 7

1. RECORDING LEVEL

2. BIAS ADJUSTMENT

Erase/Bias Oscillator. D.C. Bias Operation.

B. TYPICAL PLAYBACK CIRCUITRY ..... 8

C. RECORD/PLAYBACK

EQUALIZATON AND FREQUENCY RESPONSE ..... 9

HOW TO SELECT AND SPECIFY ..... 9