



breaking the  
sound barriers

**Consolidated  
Electronic  
Industries**

**Stereo  
Cartridge  
Systems**



# Cuemaster 990 Series Stereo Cartridge Machines

Consolidated Electronic Industries is the leading manufacturer of professional magnetic recording equipment in Australia.

The company supplies radio and television stations, recording studios, theatres, government departments, public utilities and service organisations with a superior range of products. These include: cartridge tape recorders; transportable and studio model reel to reel recorders; automated broadcasting systems; splice locators and tape erasers; broadcast logging systems; variable message repeaters; automatic verbal announcing systems; facsimile recording equipment; servo mechanisms; industrial control systems; video monitors; computers; and components.

As well as being a major supplier to the Australian market, the company also exports, to Europe, the United States of America, Africa, South East Asia and the Pacific Region.

Consolidated Electronic Industries has long been an innovator in broadcasting equipment technology. The company maintains its dominant position in the market because of its size and flexibility. It is large enough to provide a growing inventory of specialised products, yet flexible enough to respond quickly and positively to the changing needs and exacting demands of this dynamic industry.

## 996A Stereo Replay Module 993A&R Stereo Record and Replay Modules

The Cuemaster 990 Series Stereo Cartridge Machines incorporate all the features essential for professional studio use and automated broadcasting.

Designed as studio space-savers, the modular design allows for very versatile mounting on the bench, under the desk or in racks. Single, dual or triple mount housings are available to suit a variety of applications.

Each module is self-contained, yet many components are interchangeable, allowing for a standardised and less costly spares inventory.

Long life performance is ensured by the 12 mm precision milled aluminium deck, the ultra low noise power transformer and the solid brass head mount. Operation is quiet too, because of the air-damped solenoid.

There are many excellent operational features standard to the 990 Series.

The quiet push button switching is ideal for noise-free broadcasting.

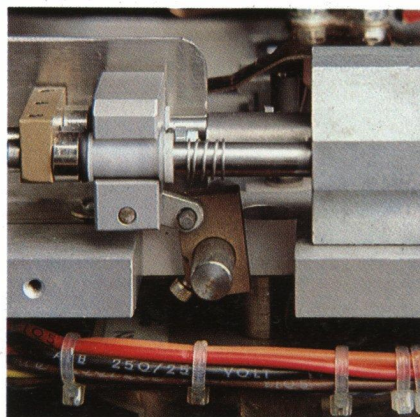
The direct drive dual speed solid state brushless DC servo motor provides exceptional wow and flutter performance at very low operating temperatures.

The crystal locked speed control system ensures speed stability regardless of variations in voltage or mains frequency.

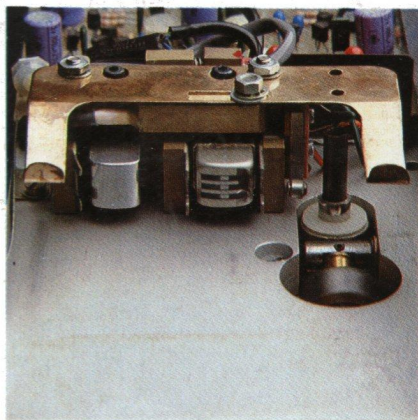
The head mount has triple tape guides which ensure accurate tape tracking across the heads.

The module accepts A size cartridges as standard. An extension module for B and C size cartridges is also available for dual or triple mount housings.

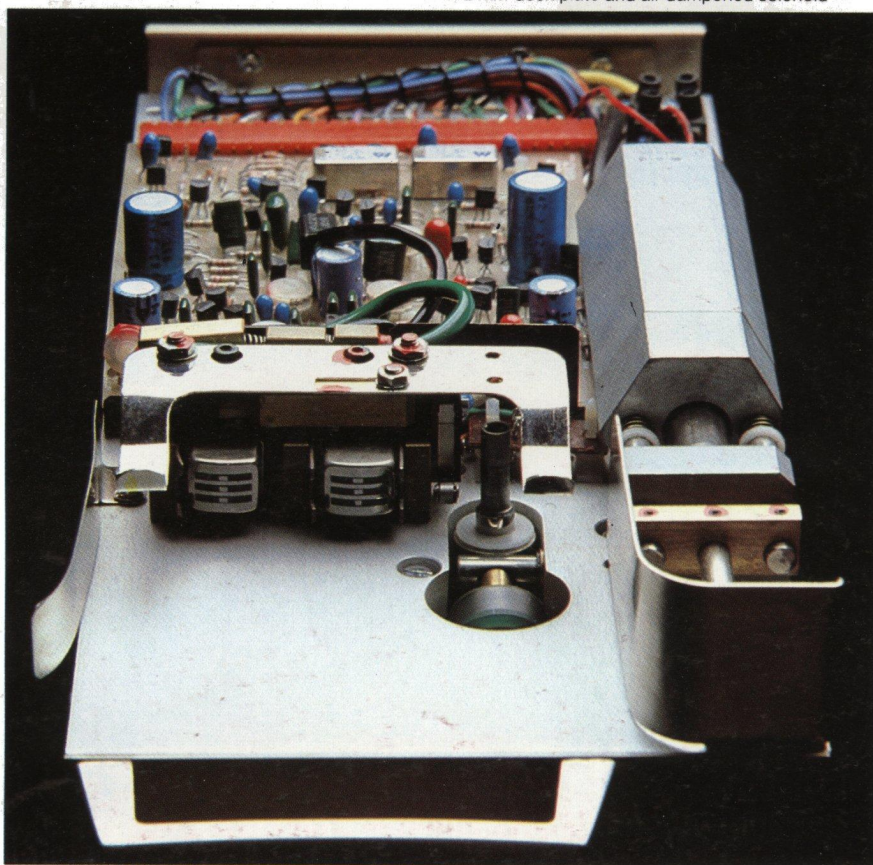
The premium-grade laminated head and chrome-plated dummy head in the replay module ensure the cartridge is always replayed in exactly the same configuration as it was recorded.



12 mm deck plate and air damped solenoid



Replay module tape head, 996A



Record and Replay module, tape head and deck layout, 993A



In the studio environment, the 990 Series has many standard features which allow fast, easy operation.

The triple cue tone facility optimises playback control. Cues can be encoded while the machine is in either Record or Play mode.

Cue detection outputs are located on the rear panel to allow easy interface with other equipment.

Recueing time is minimised because the 'end of message' cue tone detector automatically switches the machine into Fast Forward. A switch on the rear panel allows manual override of this function.

You may select Fast Forward manually then return to normal Play speed without stopping. This is very useful when editing, previewing a segment of program material or skipping a segment on a multi-program cartridge.

Either Record channel can be locked out and made safe, by fully rotating the Record gain potentiometer anticlockwise. This allows recording on the other channel without the program material on the safe channel being erased.

Automatic Record interlock is in-built as both the Record and Play buttons must be pressed simultaneously to put the machine into Record.

A Stop cue can be recorded at the start of the program by simply pressing the Record button before the Play button.

Any previously recorded program material is automatically erased while the machine is recording, unless the lockout facility is in use. Bulk erasing of cartridges prior to re-recording is not essential.

Maximum program quality is maintained by the wide poleface replay heads which ensure exceptionally flat frequency response. The low leakage power transformer provides improved signal to noise ratio, and the balanced isolated input and output transformers allow safe interface with other equipment. There is a manual phasing control which uses an integral 8 kHz alignment signal.

Record, Play, cue tone, phasing and bias levels can be monitored on the VU meter. The headphone socket has its own monitor gain control.

Level setting is simplified because unity gain is indicated by a calibration mark on the record level control.

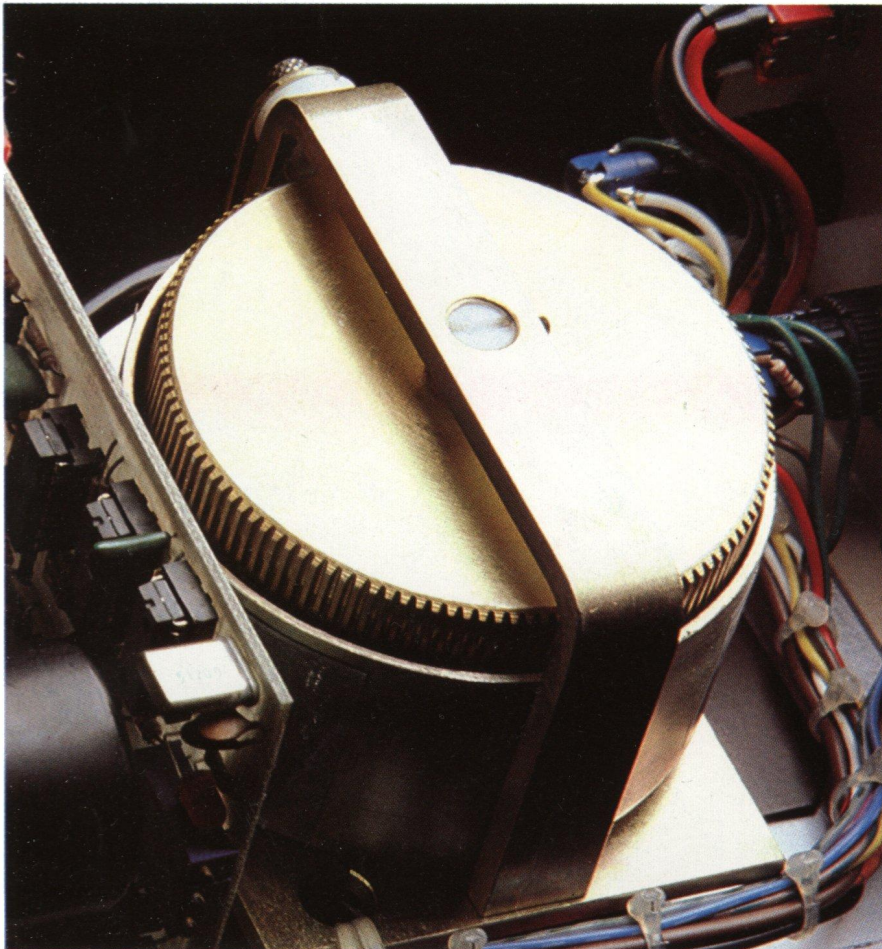
Remote control of all push button functions and indicators is a standard facility.

Either XLR-LNE or IEC mains connectors can be specified, and there is a choice of CCIR, IEC or NAB standard equalisation.



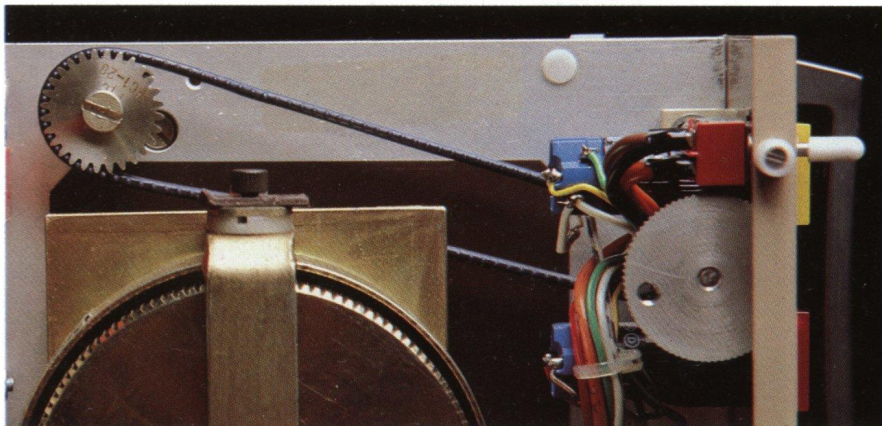
Triple cue tone facility and VU meter



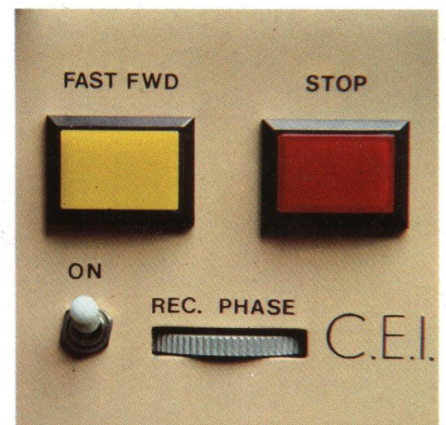


Crystal locked direct drive DC servo motor

The Cuemaster 990 Series Stereo Cartridge Machines offer many exclusive features and unrivalled technical performance. Consolidated Electronic Industries is, indeed, 'breaking the sound barriers'.



Manual phasing control, 993A



Rear panels; 993R, 993A and 996A







**Consolidated  
Electronic  
Industries Pty Ltd**

Thornbury  
Victoria 3071  
Australia

PO Box 21  
Thornbury  
Victoria 3071  
Telex AA 32463  
Cables Cepak Melbourne  
Telephone (03) 44 0791

Suite 9  
1 Chandos Street  
St Leonards  
New South Wales  
Australia  
Telephone (02) 439 1229

**Overseas Representatives**

**USA**

Benrub Corporation  
122 West 30th Street  
New York NY  
(212) 564 1065

**United Kingdom**

Granet Communications Ltd  
39 Beechcroft Manor  
Oatlands Drive  
Weybridge  
Surrey  
(0932) 47785

**Sweden**

IFO Elecktronik AB  
Box 2060  
13702 V. Haninge  
(0750) 37237

**Kenya**

Plessey Kenya Ltd  
Plessey House  
Uhuru Highway  
Nairobi  
(2) 555 011

**Hong Kong**

The Plessey Company Limited  
Tugu Insurance Building  
12th Floor  
1 Lockhart Road  
Hong Kong  
(5) 27 5555

**Belgium**

Trans European Music S.A.  
Koeivijverstraat 105  
1710 Dilbeek  
Brussels  
(02) 569 1823

**Germany**

R Barth KG  
Grillparzerstrasse 6a  
D2000 Hamburg 76  
Republic of Germany  
(040) 229 8883

**New Zealand**

Cepak Automation Ltd  
14 Lloyd Street  
Wellington  
(4) 736 898

**Singapore**

Plessey Singapore Private Ltd  
14 Shaw Road  
Paya Lebar  
805 111

**Malaysia**

Plessey Malaysia Sdn. Bhd.  
Lot 55 Bandaran Berjaya  
Kota Kinbulu  
Sabah  
(88) 89321



**Consolidated  
Electronic  
Industries**