

**DYNAMIC**  
**PRECISION**

**USERS GUIDE**

**MC/MM PHONO PREAMPLIFIER**

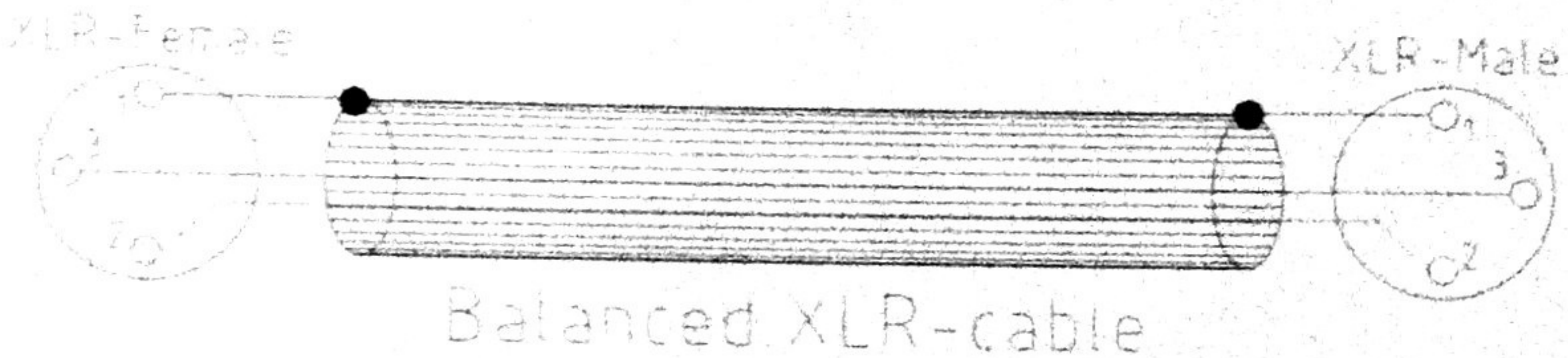
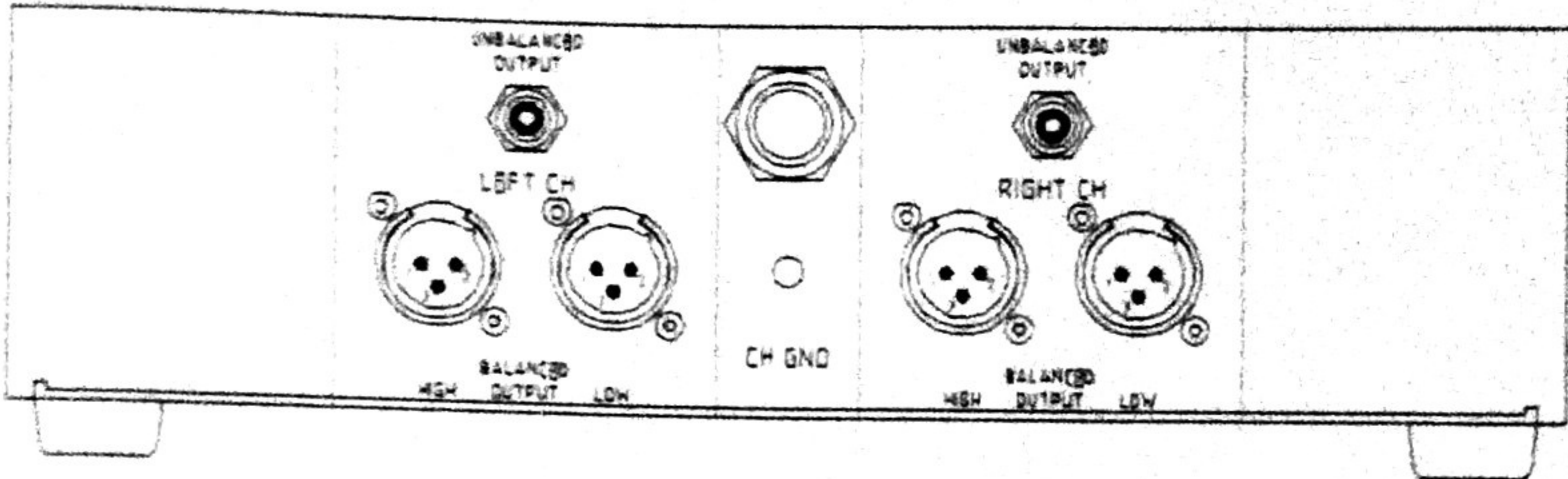
**WITH FOURTH ORDER SIGMA-DELTA  
SUBSONIC FILTER**

**DPR 2.2**

# TECHNICAL SPECIFICATION

## DPR 2.2

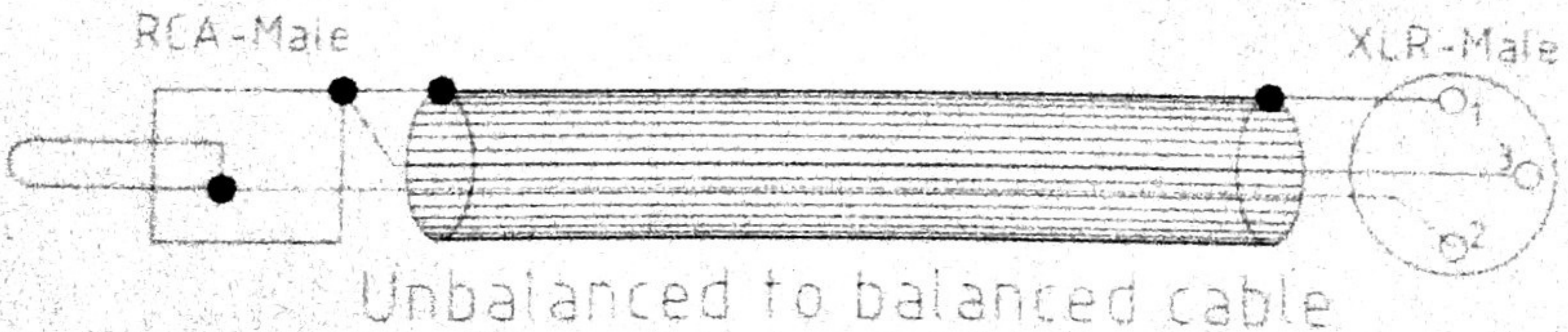
### OUTPUT SIGNAL CONNECTIONS



### SIGNAL INPUT AND OUTPUT XLR TERMINALS:

Pin allocation is as follows.

- Pin 1 = GND / shield
- Pin 2 = signal (+) in phase
- Pin 3 = signal (-) anti-phase



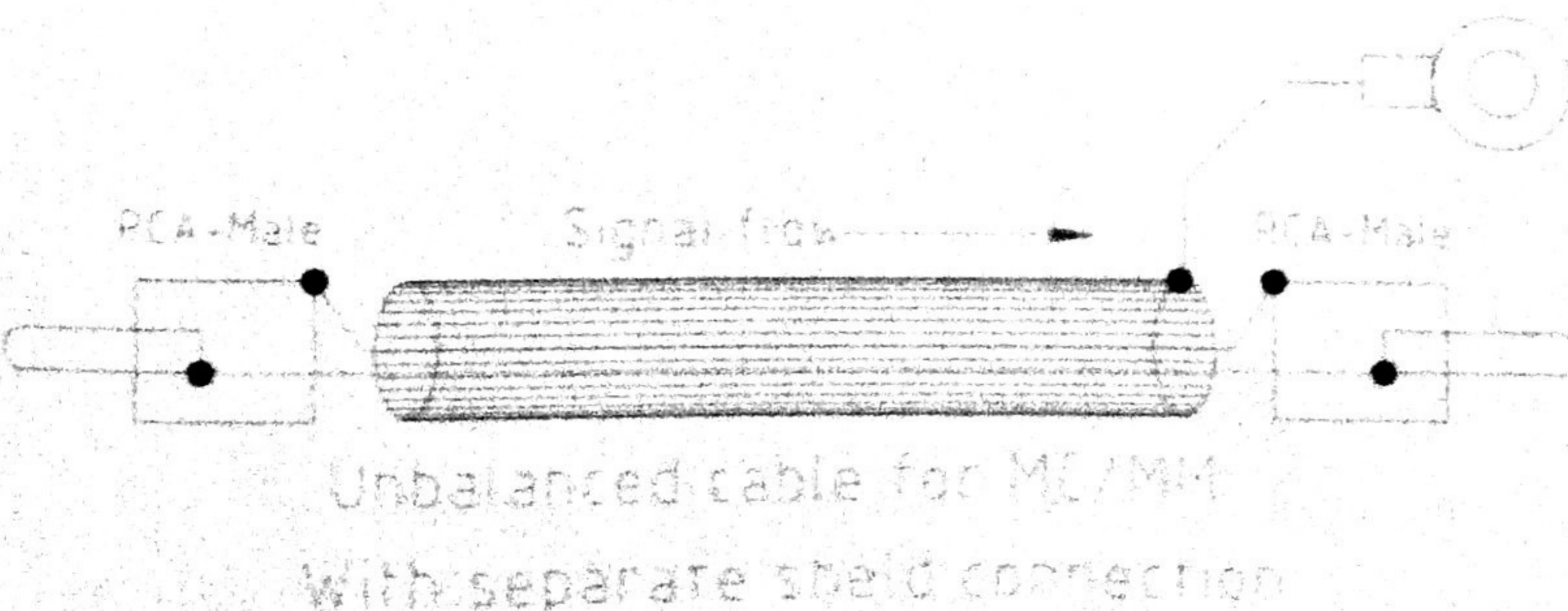
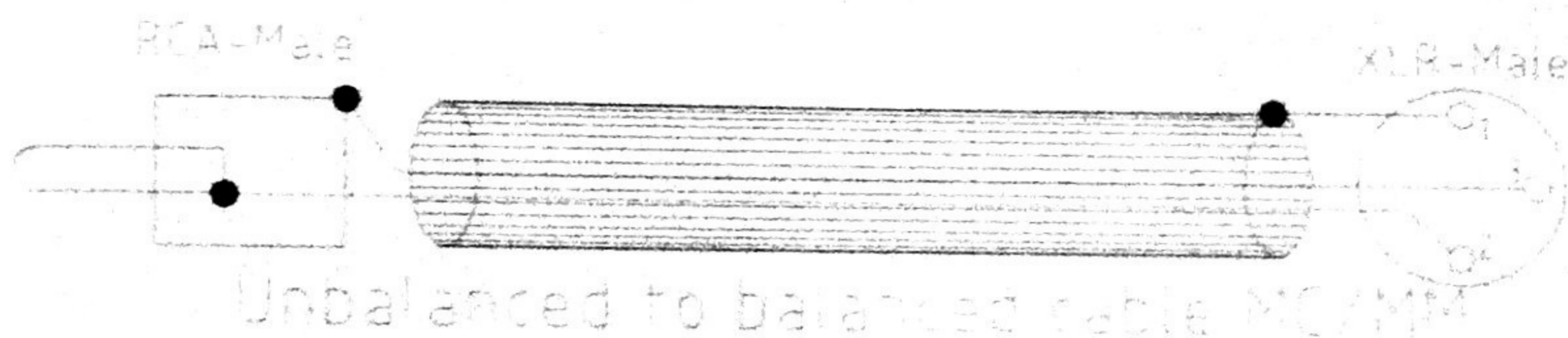
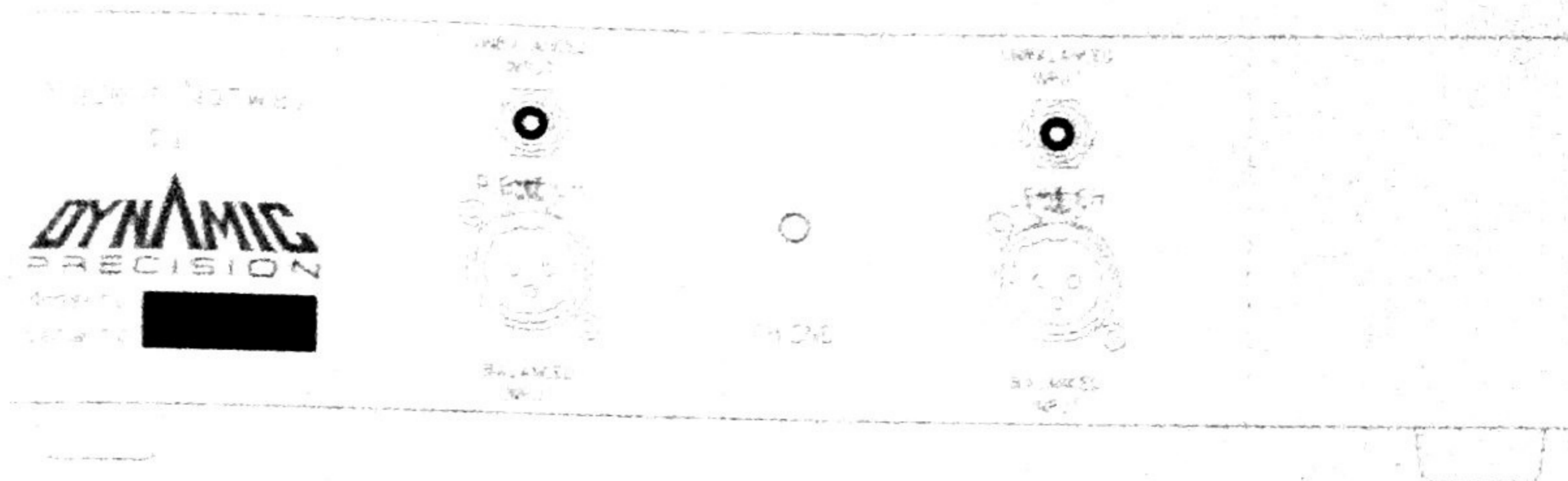
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# TECHNICAL SPECIFICATION

## DPR 2.2

### INPUT SIGNAL CONNECTIONS



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# TECHNICAL SPECIFICATION

## DPR 2.2

### MC/(MM) Phono Preamplifier

INTERNAL GAIN SETTINGS (J103-J403):	Pos 1.	Pos 2	Pos 3	off
• GAIN LOW output (bal. unbal.) @ 1 kHz:	67dB	58dB	50dB	71dB
• GAIN HIGH output (balanced) @ 1 kHz:	73dB	64dB	57dB	78dB

INTERNAL LOAD SETTINGS (J101-J401):	Pos 1.	Pos 2	Pos 3	off
• LOAD:	110Ω	370Ω	1kΩ	47kΩ

SIGNAL-TO-NOISE RATIO, ref. +10dBV:	WTD 22Hz-22kHz	WTD < 10Hz-IEC-A
• GAIN Pos.1 @ 1 kHz :	-85dB	-90dB
• GAIN Pos.2 @ 1 kHz	-94dB	-99dB
• GAIN Pos.3 @ 1 kHz	101dB	106dB

DISTORTION (TDH+NOISE):	REF. +10dBV	REF. +16dBV
• GAIN Pos.1 @ 1 kHz:	<0,003%	<0,0016%
• GAIN Pos.2 @ 1 kHz:	<0,0017%	<0,001%
• GAIN Pos.3 @ 1 kHz:	<0,001%	<0,0007%

**MAXIMUM OUTPUT LEVEL:** > +18dBV (Low) > +24dBV (High)

**FILTERS:**

RIAA (Recording Industries Association of America) standard  
 RIAA/IEC (International Electro-Technical Commission) optional<sup>1</sup>  
 RIAA Reproduction Characteristic (20Hz-20kHz): ±0.25dB  
 SUBSONIC FILTER: -3dB @ 11Hz . Slope: -24dB/okt. . No phase error (20Hz-20kHz)

**INPUT:**

Impedance balanced, 3-pin female XLR  
 Pin 1 chassis.  
 Pin 2 in phase (+)  
 Pin 3 out of phase (-) Input GND

RCA-Jacks

**OUTPUT HIGH:**

44 Ω electronically balanced, 3-pin male XLR  
 Pin 1 chassis.  
 Pin 2 in phase (+)  
 Pin 3 out of phase (-)

**OUTPUT LOW:**

44 Ω impedance balanced, 3-pin male XLR  
 Pin 1 chassis.  
 Pin 2 in phase (+)  
 Pin 3 out of phase (-)

RCA-Jacks

**MAIN SUPPLY:**

2x24V DC external power for 230V 50-60Hz

**DIMENSIONS:**

Phono unit.-(WxHxD) in mm 270 x80x250,  
 Supply unit.-(WxHxD) in mm 125 x163x127

**WEIGHT:**

5 kg including power supply.

<sup>1</sup> RIAA/IEC -3dB relative to RIAA level @ 20Hz

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