

## APPENDIX II: LUMINESCENCE REVISION KEY

The following key describes, in summary form, the evolution of the Luminescence preamplifier (beginning in early 1983):

### PRE-PRODUCTION

**Luminescence:** The original pre-production Luminescence employed solid-state voltage regulators; remote power-supply chassis was about half its current size and was not rack-mountable.

**Luminescence A:** (late 1983) The "A" revision eliminated the transistors and incorporated an outboard constant-voltage transformer.

**Luminescence B:** (early 1984) The "B" revision expanded the power supply to accommodate a built-in constant-voltage transformer; the larger chassis was made rack-mountable.

### PRODUCTION

**Luminescence:** (early 1985) In the original production Luminescence, the constant-voltage transformer was eliminated; to be replaced by an active, vacuum-tube voltage regulator. An all-steel construction audio chassis was incorporated (folded cover construction).

**Luminescence A:** (late 1985) The "A" revision includes a more rigid and less resonant power supply chassis (folded cover construction); a built-in voltage meter; upgraded gain controls; and improved bypassing and coupling capacitors.

**Luminescence A-1:** (mid 1986) All function switches upgraded to gold-plated, epoxy-sealed types. Tube regulator revised to become self-balancing; voltage adjustment pot plus meter deleted. Distortion reduction achieved by fine-tuning bias to output gain stages (both RIAA and LINE). No further user adjustments necessary.

**Luminescence A-2:** (early 1987) Power supply chassis enlarged to enhance assembly. All power transformers derated (enlarged) to effect a reduction of mechanical noise radiation.

**Luminescence A-3:** (mid 1987) All power transformers encapsulated within end-bells and shock mounted for further noise reduction. 10,000uF's of capacitance added to phono filament supply to enhance ripple rejection.

**Luminescence A-4:** (early 1988) All critical audio circuit resistors changed to Resista types; intermediate output coupling capacitor deleted from line stage; filament supply bypass capacitors added to power supply; input pi filter bypassed in B+ supply.

## LUMINESCENCE REVISION KEY, CONTINUED

Luminescence B: (late 1988) Eight major decoupling capacitors changed to Panasonic types, bypassed with Wonder Caps; four interstage caps changed to Wonder Caps bypassed with Rel polystyrenes; four output coupling caps changed to Wonder Caps bypassed with Rel polystyrene bypassed with Wonder Cap .01/600V; decoupling caps mounted on bracket in order to position them within two inches of their corresponding tube stages; Wonder Caps added to bypass B+ input pi filter; Wonder Caps added to bypass tube regulator output; Tiffany ground lug.

Luminescence B-1: (late 1989) All critical signal path wiring changed to Kimber AG (solid silver, stranded); a second tube regulator added to power supply as main rail for line stage--phono & line stages now fully discrete with separate high & low voltage supplies; power supply cables now constructed from discrete Kimber TC and made fully detachable from both power supply and audio chassis; AC line socket added to power supply (standard AC cord now supplied by Aural Symphonics); line stage audio circuit bandwidth increased to 600kHz; interstage audio capacitors changed to Rel Cap polystyrene, output coupling cap bypasses changed to .22uF, 400V Rel Cap polystyrene.

Luminescence B-1C: (mid 1990) All critical signal path wiring changed to Cardas brand. All B+ current path wiring also changed to Cardas. Special Cardas interconnect cable is incorporated between power supply and audio chassis.

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Luminescence-C: (Dec 1990) CD input added; active/passive selector added to line stage; power supply decoupling capacitors now double-bypassed utilizing both Wonder and Rel caps for more linear high-frequency current delivery with no compromise to speed or extension; all critical circuit resistors upgraded to premium Holco metal-film types; filament supply bypass caps upgraded to Solen brand; tube regulator circuit coupling & bypass caps upgraded to Solen brand; regulator output capacitance increased to improve high-frequency linearity; interstage coupling capacitors now bypassed with small value polystyrene caps for extended frequency response.

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