## LP12 HISTORY AND UPGRADE PATH

Sound quality, as always, remains our top priority. The following changes were made primarily as sonic improvements. However, in many cases these changes have also had an advantageous effect on manufacturing techniques, assembly procedures and easier LP12 set-up. Each upgrade is explained in further detail in the following pages.

| Upgrade | Year | Serial Number (approx.) |
|---|---|---|
| **25 year Anniversary of LP12!**<br>Silver badge on back and special piano laquer available (special order) | 1997 | 95000 |
| **Cirkus**<br>LP12 Cirkus bearing and subchassis upgrade fitted as standard. See page 38 for details. | April 93 | 90582 |
| **Top Plate with Stud**<br>Fitted with additional stud which improves the coupling of the top plate to the Plinth and secures the motor corner. | Mar. 1992 | 88950 |
| **LP12 Mechanics Only**<br>LP12 sold as a mechanical assembly only. Three power supply options available: Lingo, Valhalla and Basik. Valhalla and Basik (Basik PSU supplied with 45 rpm adaptor). | 1991 | 87600 |
| **Trampolin Kit.**<br>Suspended base board available as an upgrade | 1991 | N/A |
| **Solid Base Board**<br>Replacing hardboard base | 1991 | 87672 |
| **Motor Thrust Pad**<br>Small cap factory fitted (glued in position) to reduce noise level. | 1991 | 87047 (Val)<br>87206 (Lingo) |
| **Lingo**<br>Direct coupled power supply for the LP12. Offers low noise oscillators, precision filtering, separate drive for both phases and electrical isolation from mains supply. | 1990 | N/A |
| **Grommets**<br>Composition changed to a new harder, denser rubber. Improves performance of suspension. | 1989 | 81000 |
| **Motor Thrust Pad**<br>Replaced with stainless steel ball bearing. Reduces motor noise. | 1989 | 79700 |

## LP12 HISTORY AND UPGRADE PATH (page 2)

| Upgrade | Year | Serial Number (approx.) |
|---|---|---|
| **Armboard** | | |
| Material changed to MDF core, laminated top and underside. Increases rigidity of armboard, creating improved platform for tonearm. | 1987 | 79160 |
| **Bearing Housing** | | |
| Improved bearing liner material and thrust pad specification. Bearing liner machined to tighter tolerances, thus creating better speed stability. | | |
| Changed to black oil. | 1987 | 70,000 |
| **Suspension Springs** | | |
| Manufactured to tighter tolerance; ground top and bottom. (changed from zinc to black) | 1981 | |
| Further tightening of manuf. tolerance. | 1986 | |
| Tightened grinding tolerance. | 1988 | 70,000 |
| **Sub-chassis** | | |
| Added strengthening bar, spot welded in place. | | |
| Increases rigidity and strength. | late '70s | |
| Attached strengthening bar with epoxy glue. | | |
| Superior bond; increases rigidity. | 1984 | 54,100 |
| **Plinth** | | |
| Enlarged corner blocks. | | |
| Strengthens and increases rigidity of plinth. | 1984 | 53,000 |
| **Valhalla Power Supply** | | |
| Electronic speed control with a sophisticated crystal controlled power supply. | | |
| Isolates the rotation of the turntable motor from variations in the electrical supply. | 1982 | 38,800 |
| **Nirvana Kit** | | |
| Improved material specification of many integral mechanical components. | | |
| Improved suspension and stability. | 1981 | 32,800 |

## LP12 HISTORY AND UPGRADE PATH (page 3)

| Upgrade | Year | Serial Number (approx.) |
|---|---|---|
| **Lid and hinges**<br>Lid prop removed and hinges changed to spring loaded, self supporting. | 1979 | 27,000 |
| **Top-plate**<br>Added two holes for 6 x 0.5 self tappers into wood block. | 1978 | 23,000 |
| **Main Bearing**<br>Liner material changed. | 1974 | 2,000 |
| **Sub-Chassis**<br>Strengthened by addition of strap, spot welded in place. | 1974 | 2,000 |
| **Motor Control**<br>Motor control pcb changed from terminal strip to small circuit board. | 1974 | 2,000 |
| **Mains Switch**<br>Changed from two buttons to single switch with mains neon. | 1974 | 2,000 |

# LP12 SPECIFICATIONS

For your information we have listed below some of the LP12 technical specifications.

The LP12 is a precision built transcription turntable, chassis mounted in a strong solid kiln dried timber low resonance base, equipped with a moulded, hinged dustcover.

**Outer Platter**
12" diameter (305 mm) non-magnetic zinc aluminium alloy diecast and accurately machined on all surfaces to within 0.001" (0.025 mm) with optimum peripheral mass distribution. Weight approximately 9 lbs (4.1 kg). The platter is supplied with a felt mat.

**Bearing**
Single point system running in an oil bath. The thrust pad, which must support the weight of the platter on a single point, is top grade steel, machined, hardened, ground and lapped to a mirror finish.

**Motor**
24-pole precision synchronous low noise, high torque motor. Fully shielded and mechanically isolated from the main bearing assembly by resilient mounting, damped three point suspension and a resilient belt drive.

**Drive**
Flat precision ground neoprene rubber belt driven by a concentric drive pulley. Concentricity 0.0004" (0.01 mm).

**Suspension**
the platter, bearing assembly and arm mounting board are mounted on a free floating inner chassis. This chassis is isolated from the plinth by a fully adjustable three point spring damped suspension.

**Inner Chassis**
The free floating inner, single piece pressed steel, (sub) chassis employs a strengthening strap.

**Top-plate**
Heavy guage non-magnetic, brushed satin, stainless steel plate.

**Power Supplies**
Three supplies are available:

a Basik, a single speed basic Mains power supply.

b Valhalla on-board single speed (33.3 rpm) power supply.

c Lingo, a direct coupled two speed (33.3 rpm and 45 rpm) outboard supply.

Basik power supply rely on the mains frequency therefore require either a 50 or 60 Hz motor fitting to the LP12 according to country of use. This supply is also voltage specific.

Both Valhalla and Lingo will operate from 100 V to 260 V, with a simple voltage adjustment -- ,

Valhalla: move one main input wire and the fuse inside the LP12.
Lingo: move the voltage barrel and change the fuse 200ma for@100V and 300ma for 200V+ on the Lingo.

Both Valhalla and Lingo generate 50Hz regardless of the mains frequency , so use a standard 50Hz motor.

**Physical and Electrical Specifications**
Power requirements: 110 - 125 Volts; 200- 260 Volts 50 Hz or 60 Hz

**Dimensions:**

| | |
|---|---|
| Width | 445 mm |
| Depth | 356 mm |
| Height | 140 mm |

Approx. 70 mm required at rear, and approx. 250 mm above the unit to permit opening of lid.