

## The MonoPulse Model A.

**Design Objective.** MonoPulse loudspeakers have the primary objective of realism and precise imaging by time-domain synchronism of the impulses and musical leading edges in sounds. The Model A is also a top quality hi-fi loudspeaker in all other respects, featuring power handling of 550 watts max, and sub 20Hz bass.

**Description.** MonoPulse uses unique asymmetric crossovers and precisely offset drive-units. The Kevlar cone, 200mm LF unit has a 4-layer voice coil and a 40oz magnet, giving maximum power handling of 550 watts. The in-room bass response, with a large box-volume and a reflex tuning point at 32Hz, extends to below 20Hz. The 28mm neodymium HF unit is ferrofluid cooled and silk-domed, with a response to 22kHz. The HF circuit is fourth-order, using only film capacitors and air-spaced coils, giving 24dB per octave attenuation below 4kHz, for a short crossover-span and good protection of the HF unit.

**Setting up.** Use the handle at the rear of the enclosure. The extending spike holders can be loosened with a 10mm spanner and slid to their outer position. **Please do not then over-tighten the bolts.**

**Positioning for Bass.** The centre of the LF unit is 85cm from the floor. So try to avoid having the speakers 85cm from side walls, and/or the front of them 85cm from the rear wall. If possible, make these distances one greater and one less than 85cm. Close to a rear wall is OK, if they are about 1.5 metres or over from side walls - or vice versa. But remember, most loudspeakers are not able to be sited ideally, so this is a guide to doing the best. If there is unwanted bass emphasis, we can supply (FOC) bass damping tubes to be fitted in the bass ports.

**Position and Imaging.** A normal placement is with the units about 2.5 metres apart at a listening distance of about 3 metres. The MonoPulse imaging accuracy will also allow the units to be further apart or closer in than normal. This can give a dramatically wide sound-stage, while the MonoPulse precision maintains accurate central imaging. This ability can be useful if there are positioning problems, particularly in small rooms.

**Adjustment for HF Response.** Increased HF can be obtained by connecting the very upper two terminals together. **DO NOT CONNECT THESE IN ANY OTHER WAY.**

**Adjustment for Listening Height.** The Model A focus of impulse synchronism is optimised for listening at a height of 90cm – perfect for a low sofa or chair. For a higher position, exact acoustic focus can be maintained by tilting the units slightly backwards. A 5mm front/rear spike length difference, raises the focus by 10cm at 3 metres distance. Outside this they will perform as normal hi-fi loudspeakers.

Alternative nylon “spikes” with more rounded ends can also be supplied. These are more suitable if the units are being placed on hardwood floors. Spikes should only be locked hand-tight.

**Cables and Connections.** The terminal panel will take 4mm plugs, 7mm spades, or 5mm bare wire. The HF terminals are the upper ones, and the units can thus be bi-wired or bi-amped. The interconnections needed will depend on the system and the layout - please consult your dealer.

**Running in.** We recommend that the speakers are run in for at least 50 hours at the intended listening volume.

**Warranty.** MonoPulse loudspeakers are covered by a one year warranty.

**Repairs.** In the unlikely event of overheating an HF unit, access is by removal of the upper front panel. This is best done from the back, by pushing a rod through at the very side of the rear foam.

There is no removable cover over the LF unit, but this and the cloth can be replaced at the factory or by a competent repairer. For spare HF units and other repairs, contact your dealer.

**Other specifications.** Nominal impedance is 8 ohms, the minimum 7 ohms. Sensitivity is 90dB. Power handling is 550 watts maximum, 300 watts continuous, 1,500 watts for 10ms. Dimensions: height 108cm, width 22cm, depth 25cm, weight 16Kg per unit.