

The MonoPulse Model A.

Design Objective. MonoPulse loudspeakers have the primary objective of realism and precise imaging by 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 20Hz bass.

Description. To achieve synchronism, MonoPulse uses unique asymmetric crossovers and precisely offset drive-units. The Kevlar cone, 200mm LF units have 4-layer voice coils and a 40oz magnet, giving maximum power handling of 550 watts. The in-room bass, with the 20 litre box-volume and a reflex tuning point of 32Hz, extends to 20Hz. The 28mm neodymium HF units are 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. Needs a 10mm spanner. Lay the speakers on a soft surface. In turn, remove the unattached bolts in the base and loosen the ones holding the legs. Swivel the legs outwards and re-insert the free bolts through the centre holes in the legs. Tighten all. Put in the spikes, with locking nuts above and below the legs.

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. See also "Listening" overleaf. 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 than normal. This can give a wide sound-stage, with accurate central imaging. It can also 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 with the supplied bridging leads. **DO NOT CONNECT THESE IN ANY OTHER WAY.**

Adjustment for Listening Height. The Model A MonoPulse impulse synchronism is optimised for listening at a height of 90cm – perfect for a low sofa or chair. For a higher/lower position, exact acoustic focus can be maintained by tilting the units slightly backwards/forwards. A 5mm front/rear spike length difference, changes the impulse focus by 10cm at 3 metres distance.

Alternative nylon "spikes" with rounded ends for hardwood floors can also be supplied for focus.

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.

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 a damaged HF unit, access is by carefully pulling away the upper front foam, and prising away the HF holding panel behind it. Alternative coloured front foams can be supplied.

There is no removable cover over the LF unit, but this 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 91dB. 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.