

## The MonoPulse Model AW.

**Design Objective.** MonoPulse loudspeakers have the primary objective of total realism and precise imaging, by synchronism of the impulses and musical leading edges in sounds. The Model AW 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 40oz magnets, 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, giving a short crossover-span and outstanding protection of the HF unit.

**Setting up.** Needs a 10mm spanner. Invert the speaker on a soft surface and block the port opening.

Select boxes and wood bases with the same number. Place the bases, with numbers and spike insets uppermost, and with the diagonal cut-outs at the front and facing each other.

Thread screws, plus nylon washers, into the holes in the box base. Locate all before tightening. Do not over-tighten. (*If thread strips, drill to 6.5mm & use medium, brown, Plasplugs.*) Add the spikes and locking nuts.

**Positioning for Bass.** The LF unit is 70cm from the floor. So try to avoid having the speakers 70cm from side walls, and/or the front of them 70cm from the rear wall. If possible, make these distances one greater and one less than 70cm. 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 speakers are not able to be sited ideally, so this is a guide to doing the best. If there is unwanted bass emphasis we can also 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 allow the units to be further apart or closer in than normal. This gives a wide sound-stage, with accurate central imaging. It can also give flexibility with problems in small rooms.

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

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

**Adjustment for HF Response (*If fitted*).** 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.**

**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 about 50 hours at varying volumes.

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

**Repairs.** In the unlikely event of damage to the HF unit, access is from the back. The LF unit 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 100cm, width 22cm, depth 25cm, weight 16Kg per unit.