



Speaker Field Guide



John van Son

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A Brief History

For the first half of the 1960s, Dynaco acted as Bang & Olufsen's American importer. It had proven to be a lucrative relationship, growing B&O's presence in the US market while expanding Dynaco's offerings to include phono cartridges, microphones, a portable radio, etc. During this time, B&O's export manager, the ambitious, young Peter Hasselriis, fostered his professional relationship with David Hafler and saw an opportunity in Dynaco's own growing reputation in the international market. Up until then, Dynaco's own presence in the European market was limited to a handful of sporadic importers leaving room for someone to step in as an official distributor, which he acted upon.

Leaving B&O in late 1964, Hasselriis founded Audio Dyne mere months later in early 1965 and, using his connection with Hafler, arranged for his fledgling company to become the sole distributor for Dynaco products in Europe. As Dynaco's reputation grew, so too did his company enjoy rapid growth creating the daughter brand Scandinavian Sound Corporation (SSC) to import/export Luxor brand equipment to the UK. Desiring to expand beyond the import/export market and into production, Hafler was brought in as a business partner and the company renamed to reflect the changes becoming the Scandinavian Dyna Production Company or Scan-Dyna for short. At its peak, Scan-Dyna's European distribution represented over 20% of Dynaco's total sales.

With the creation of Scan-Dyna, and the expansion into production, Hasselriis hired Ejvind Skaaning and his outfit, QSR (Quality Sound Recordings), to design and build speakers at his Hørning workshop near Aarhus (where his brother, in turn, built the cabinets) for the SSC and Dynaco Europe brands. The resultant speakers, based primarily on a mixture of Peerless, Philips and SEAS drivers, were very much in the Scandinavian school of speaker design and found some limited success in the European market.



Ejvind Skaaning

After Hafler sold his stake in Dyna Co. to Tyco Laboratories in 1968, remaining on as advisor (a position he would retain until 1971), he travelled to Denmark to check in person how Scan-Dyna was growing. While there, Hasselriis introduced him to Skaaning and the speakers he was building for him. They impressed him and instilled the desire to bring these Scandinavian Dynaco speakers stateside, but he felt they required further refinement to stand out in a saturated market and adjustment to meet a lower price point after import costs were accounted for. Skaaning set off with the task at hand.

In prior years, Skaaning had befriended Ragnar Lian, who went on to work as a driver designer at SEAS, and so picked his brain on driver combinations that would be an improvement on the drivers he'd been using. Lian suggested his own woofer design, the SEAS 25 TV-EW, and suggested that his friend's, Mogens Hvass, new tweeter design based on Bill Hecht's new soft dome development, the SEAS H087, would pair well with it. The result tucked into the cabinets from his three-way M-25 design was promising, but the sealed prototype failed to impress Hafler when he listened to it. The desired size of the enclosure was too small for the woofer and the bass suffered for it. At this point, Hasselriis put Skaaning in contact with Krister Amnéus, who had come out with a well-received aperiodic design the year before. Applying the aperiodic principle to the modified M-25 proved to be the solution, allowing the woofer to behave as though in a larger sealed enclosure, albeit with the loss of efficiency of the smaller box. The resulting speaker, the Aperiodisk (Aperiodic) 25 or A-25 was a collection of incremental improvements that struck just the right combination in the right size at the right price at the right time to be exactly what Hafler was looking for. After an initial order of 2500 units, minor tweaks occurred (the change from a wire tail to banana plug compatible binding posts, being the more noticeable) and production was off. (Krister Amnéus, in turn, received a royalty for the first 10,000 units, but was brushed off by SEAS when he approached them in 1973 for further fees as the number of A-25s built had entered into the hundreds of thousands.)



Ragnar Lian
(Prototype A-25X in Background)

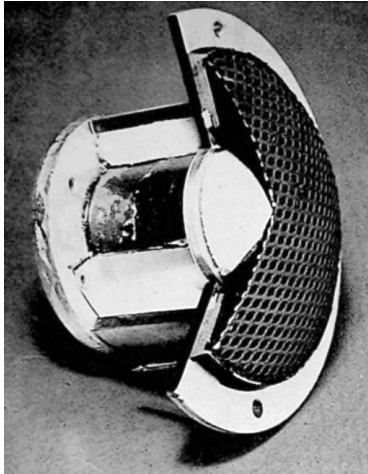
The A-25 was surprisingly well-received from the very beginning when introduced to the US market in 1969. Reviews were gushing and nothing could touch its musicality at the price point. Order quantities shot up immediately with ever more clamoring for the budget miracle. Production of the new A-25 quickly outpaced Skaaning's capabilities necessitating his hiring the services of Regner Christensen's Lem Sengefabrik, then a bed maker in Ringkøbing, to build cabinets to keep up with demand. Such success was had that they became a full-time speaker cabinet factory and changed the name to Lydig. Scan-Dyna, in turn, employed the cabinet builders to build a company neighborhood of thirty homes or so in Humlum where the completed cabinets were to be shipped to Scan-Dyna's new facility on Søndergårdsvej for final assembly. Orders for the A-25 rapidly surpassed 1000 per week and after a glowing review in Consumer Reports, the popularity achieved unheard of heights. In 1969, 130,000 speakers had



Søndergårdsvej

been built by Scan-Dyna, the majority being the new A-25. For 1970, the number of the A-25 alone had increased to 84,000 built and shipped to the US at a rate of 7,000 per month. It was an unheard of success for the region and, unfortunately, unsustainable.

SEAS had multiple clients for its drivers and sold their own speakers and kits. Their production was already taxed and Scan-Dyna's new demand was more than they could meet. As driver supply from SEAS faltered and felt increasingly overpriced for the quality issues that were arising with unsettling frequency, Hasselriis and Skaaning decided to create their own transducer company to ensure reliable supply and established Scan-Speak in February 1970. SEAS did not receive word of the



new competitor well and throttled supply to Scan-Dyna forcing them to fall back to less desirable driver choices Skaaning was familiar with from his earlier models, such as the Philips tweeter, until Scan-Speak could get up to speed in its own production. The first Scan-Speak driver being the D38xx series of tweeter; its version of the SEAS H087. The rumor mill holds that Hvass helped Skaaning create this clone driver, which led to his firing by SEAS. (Stories of industrial espionage between the companies did make it to the local newspapers at the time, possibly in relation to this.) Lian quit in solidarity with his friend and Skaaning was quick to hire both on ensuring Scan-Speak would quickly establish its own reputation for high quality driver design.

Business being business, the quickest way to assuage strained relations between companies is a new contract and influx of money; thus SEAS became a supplier for Scan-Dyna once more. Once SEAS was able to upgrade the facilities of Videbæk Højtalerfabrik (later Vifa) to increase production and stabilize supply to manufacturers, Dynaco branded speakers would be built after with SEAS drivers. Scan-Dyna's own branded speakers (at first identical to Dynaco, but diverging over the years) would continue on with a mixture of SEAS and Scan-Speak drivers.

With the surprise success of the A-25 in the American market and beyond, the old M-series models were phased out within a couple of years and new A-series models introduced. The short-lived A-45, an aperiodic version of the M-45 with its dual 8" woofers, was added to the line within months only to be replaced the end of the next year with the A-50. The A-50, intended to provide more bass to fill larger rooms, increased the woofers to dual 15Ω versions of the A-25's 10" woofer in a dual chamber internal aperiodic design. The A-10 came shortly after; its smaller format meant for wall mounting as rear channels when used with the Dy-



naco QD-1 quadaptor. The A-35 rounded out the primary A-series providing what Dynaco advertised as the “most accurate” sound with the dual chamber aperiodic design of the A-50, but with a single woofer to provide better balance over the whole frequency response.

With the success and vast sales of the A-25, a common failure-mode appeared in drivers returned to SEAS from Dynacos that required repair. The 25 TV-EW was designed in a time of low powered amplifiers where the driver’s power handling of 35W was a reasonable limitation, but with the increasingly common higher power level amplifiers available in the early 1970s demagnetization of the alnico magnet had become a pressing concern. The grade of alnico used in speaker magnets of the time has a tendency to lose flux strength over time or when exposed to a sufficiently strong external field. Then, as now, speakers and audio components were built with a planned life expectancy of around ten years. So, the loss of flux over a decade would be sufficiently limited to ensure the driver would remain within spec and could be safely set aside as a concern. For the other issue, though, the alnico that provided the magnetic field for the 25 TV-EW was a slug that sat within the voice coil. Feed too much power through the voice coil and the magnetic field it produced would demagnetize the alnico to a degree. SEAS was finding the returned drivers were suffering such a significant loss of magnetic field strength in the alnico that the woofers were measuring a 3dB reduction in sensitivity and a significant increase in Qts from the loss of motor strength.



Bjørn Børja

The solution to this issue pursued by Bjørn Børja, Ragnar Lian’s replacement at SEAS, was to convert the magnet to ferrite. The new driver that would become the SEAS 25 F-EW was given a new basket with larger spider landing to improve linearity of the suspension over its predecessor and a ferrite motor with re-designed pole piece and gap to address the differing needs between the materials to ensure symmetry of flux within the gap (lack of symmetry due to not yet understanding said design requirements being the cause of IMD that led to early false impressions that there was a magnet sound). The result came out lower distortion than the 25 TV-EW with higher power handling capability, immunity to demagnetization and greater sensitivity as well.

To take advantage of this new, improved woofer, Dynaco would pair it with the new SEAS H086 (also designed by Børja) that improved upon the older H087 with significantly improved frequency extension and lower distortion. The resulting model was introduced as the A-25XL, representing the first real refresh of the line in years. The A-40XL followed shortly after as the equivalent upgrade to the A-35.

Around the same time, Dynaco also sought to introduce lower cost versions of its two most popular models, the A-25 and A-10. The diminutive A-10 was offered with a vinyl veneer option and an updated grille cloth to better suit changing preferences. The A-25, on the other hand, received a complete reworking. Having been paying Bill Hecht licensing fees for his soft dome patents applied to the H087, Dynaco approached his United Speaker Systems to design an American built copy of the A-25 to reduce licensing, production and shipping costs. The result was given vinyl veneer like the A-10, but used USS drivers to duplicate the



sound of the A-25.

Ultimately, a million units of the A-25 would be built before it was discontinued in 1977 when the whole Dynaco speaker line was reworked. Gone were the original aperiodic designs that had become increasingly dated with their 1960s aesthetics and mellower, neutral sound. Dynaco's offerings could no longer compete in the stereo shops against the wave of Japanese and American

speakers with the increasingly popular "West Coast Sound" that was defined by thumping upper bass and screaming lower treble, where "LOUD!!" stood out and sold speakers in the budget price bracket, not good sound that didn't call attention upon itself in a crowded, noisy showroom. Dynaco briefly tried, but following the fad of stacking cheap, low quality speakers to make louder, low quality sound with its Dynamax system that called for up to six pairs of A-series speakers (A-10, A-25, A-25XL, A-35 or A-40XL were specified) stacked on their sides, but it was too little and not for those who were Dynaco's clientele; stacking speakers like that only sacrificed sound quality for quantity and so did not sell well. That Dynaco was increasingly suffering financially overall only made the pinch in speaker sales all the more acute.

In an attempt to compete, the refresh in the line-up brought an indecisive mixture of new, but ultimately short lived model series. First, Dynaco introduced the very short lived Laboratory Monitor Series (LMS) to directly compete in that new market, but within mere months dropped the line to instead target the higher end crowd with the time and phase aligned Phase 3 series. Both containing the only floorstanding models Dynaco would release as a company. The beginning of the next year saw a return to the bookshelf format with the A-30XL (touted in the ads as Dynaco's first three-way model despite those in the LMS and Phase 3 series from the year before), the compact D-20XL and even a new A-25, the A-25 Mark II, as an attempt to modernize the original.



The success of the original A-series was not to be repeated and the Dynaco speaker lines disappeared when the company collapsed in 1979 to be sold off to the vultures. Stereo Cost Cutters bought Dynaco's old stock by the tonnage including old speaker components and would release the A-25 Mark II as the A-25 II for a few years into the early 1980s until they ran out. ESS (formerly Electrostatic Sound Solutions) bought the name and released a new line of A-series models of their own design under the Dynaco name with limited success. In the mid-1980s, ESS would release more models under the Dynaco name, but they were only rebadged very low budget models sold under several of the labels they owned. In later years, the Dynaco name would be purchased by Panor, which would see an extensive release of new models reviving many of the original model numbers. However, they bore no relation to the originals outside of the tribute model, the A-25 Classic.



David Hafler

Those involved went their separate ways over the years and took the school of speaker design that spawned the A-25 and those derived from it with them. Hafler left Dynaco in 1971 to pursue his own interests, which led him back to Scan-Speak where he became primary owner and, later, Ortofon, which would release an aperiodic speaker based on Scan-Dyna designs of the time. Skaaning went on to found Dynaudio in 1975, which produced its own aperiodic designs using a refinement of a drop-in vent called the "Vario-vent" developed during his time at the helm of Scan-Speak. A handful of "Scan" companies (Audioscan, Scan-Sonic, etc) were spawned from the principals and original two "Scan" companies creating many more similar speakers in this new Scandinavian school of speaker design. SEAS continued to make and offer superficially similar speakers and kits, primarily of sealed design, though some aperiodic models were designed by them for others such as Radionette. The success of Dynaco's foray into speakers, though only a decade long, created a burst of life in the Scandinavian speaker industry, leading to many new brands and dozens of models to confuse Dynaco fans, and companies that produce high end audio to this day.

Timeline of Models

The Beginning: M-Series (1967-1971)

- **Type 201 (1967-1968)**
- **M-25 (1967-1968)**
- **M-25x (1968-1971)**
- **M-4 (1968)**
- **M-25xf (1968-1971)**
- **M-10x (1968)**
- **M-25xf (1968-1969)**
- **M-45 (1968-1969)**
- **M-2 (1969-1970)**
- **M-10 (1969-1970)**

The Golden Age: A-Series (1969-1977)

- **A-25 (1969-1977)**
- **A-45 (1969-1970)**
- **A-25 MkII (1971-1972)**
- **A-25X (1971-197?)**
- **A-25XS (1971-1975)**
- **A-50 (1970-1977)**
- **A-10 (1971-1977)**
- **A-35 (1972-1977)**
- **A-10VW (1974-1977)**
- **A-25VW (1974-1977)**
- **A-25XL (1974-1977)**
- **A-40XL (1975-1977)**

The Gloaming (1977-1979)

- **D-20XL (1976-1978)**
- **Laboratory Monitor Series**

- **LMS-2 (1977)**
- **LMS-3 (1977)**
- **LMS-5 (1977)**
- **LMS-6 (1977)**
- **LMS-7 (1977)**
- **Phase 3**
 - **Model 45 (1977-1978)**
 - **Model 60 (1977-1978)**
 - **Model 80 (1977-1978)**
- **A-25 Mark II (1978-1979)**
- **A-30XL (1978-1979)**
- **A-100 (1978)**

The Scattering

- **Stereo Cost Cutters**
 - **A-25 II (1979-198?)**
- **ESS**
 - **Model 150 (1979)**
 - **Model 250 (1979)**
 - **A-150 (1979-198?)**
 - **A-250 (1979-198?)**
 - **A-100 (1980)**
 - **Model 350 (1980)**
 - **A-350 (1980)**
 - **123C (1984-1986)**
 - **208 (198?)**
 - **310 (1984-1986)**
 - **312 (1984-1986)**
- **Panor**
 - **Options Series**
 - **A-10 (1990-1993)**
 - **A-15 (1990-1993)**
 - **A-25 (1990-1993)**
 - **A-25 Series II/A-25II (1990-1994)**
 - **A-35 (1990-1993)**
 - **A-38 (1990-1993)**

- **A-40 (1990-1993)**
- **A-50 (1990-1993)**
- **Amazing Bass (1990-1993)**
- **A-10 Type II (1993-1998)**
- **A-15 Type II (1993)**
- **A-20 Type II (1993)**
- **A-35 Type II (1993)**
- **Amazing Bass II (1993)**
- **AW-1 (1993-1995)**
- **AW-1W (1993-1995)**
- **HLX-9 (1995)**
- **HLX-18 (1995)**
- **HLX-18V (1995)**
- **A-25 Classic (1996-1998)**

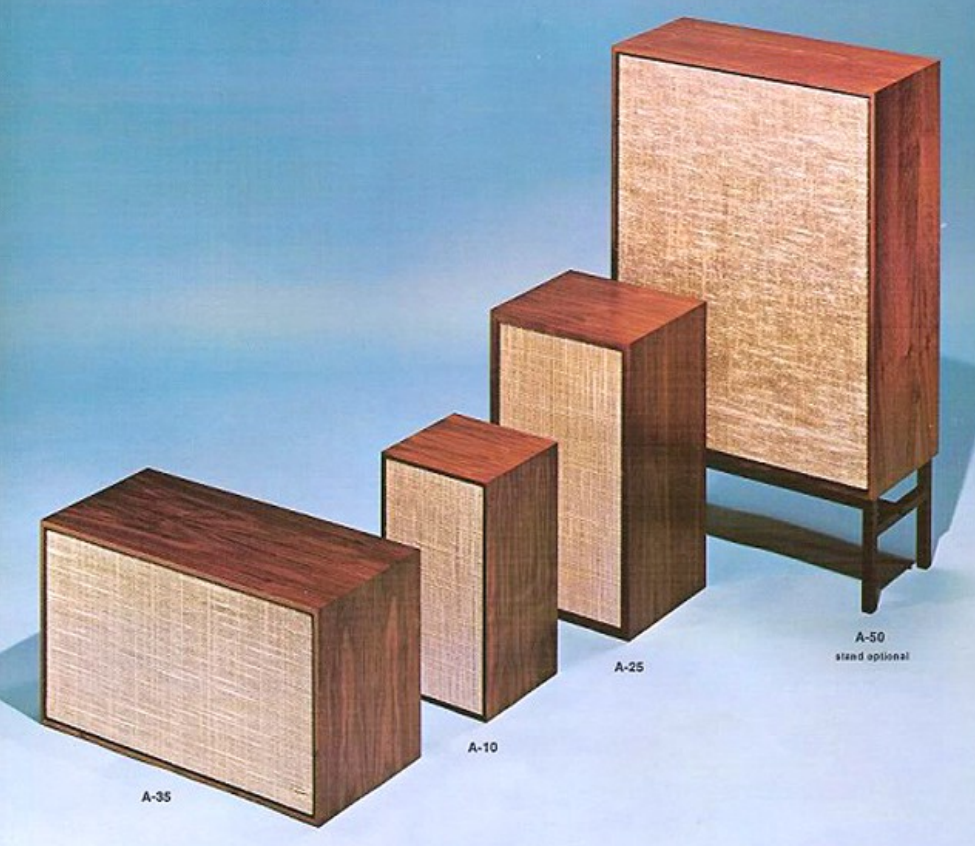
Speaker Identifier

THE DEEPEST BASS The magnificent A-50

THE MOST ACCURATE The new A-35

THE GREATEST VALUE The popular A-25

THE BEST BUY The little A-10



The image shows four wooden speakers of varying sizes and designs, arranged in a line from left to right. Each speaker has a dark wood frame and a light-colored, textured grille. The A-35 is the largest and widest, the A-10 is the smallest, the A-25 is medium-sized, and the A-50 is the tallest and most prominent, featuring a stand. The background is a solid blue gradient.

A-35

A-10

A-25

A-50
stand optional

Serial Number Codes

Serial Number Code:

$\begin{array}{c} \text{XX} \\ \uparrow \\ \text{Unit Code} \end{array}$
 $\begin{array}{c} \text{XXX} \\ \uparrow \\ \text{Year} \end{array}$
 $\begin{array}{c} \text{XXX(X)} \\ \uparrow \\ \text{Week} \end{array}$
 $\begin{array}{c} \text{Serial \# of Unit} \\ \uparrow \\ \text{(4 numbers for speakers)} \end{array}$

Model	Prefix
A-10	25-
A-10VW	32-
A-25	19-, 19A, 19B
A-25 Classic	DS 2495-, DS 594-
A-25VW	31-
A-25X	18A, 192, 19B, 19C
A-25XL	36-
A-25XS	192
A-35	27-, 27A
A-40XL	39-
A-50	22-, 23-

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• A-25 Mark II	79
• A-25 MkII	82
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• A-25R	87
• A-25T	90
• A-25VW	92
• A-25VW (Late Production)	95
• A-25X (Early Production)	97
• A-25X (Scan-Speak Variant)	99
• A-25X (Three-Way Variant)	102
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• A-25XL	111
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A-10

Developed and initially marketed for use as the rear channels with the new Dynaco quadraphonic adapter, the A-10 quickly became popular for compact systems.



Years Produced	1972-1977	
Dimensions (HxWxD)	14.75"x8.5"x7.75"	
Weight	12lbs	
Frequency Response	50Hz-15kHz ±4dB	
Sensitivity (DIN, 96dB/m)		
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	25W	
Power Handling (Peak, DIN)		
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	6.5" Paper Cone	SEAS 17 TV-GWB
Crossover Frequency	2.5kHz	
Enclosure Type	Aperiodic	
Enclosure Volume	10l	
Finish	Walnut	
MSRP (1972)	\$99.95/pr	



In the Wild...



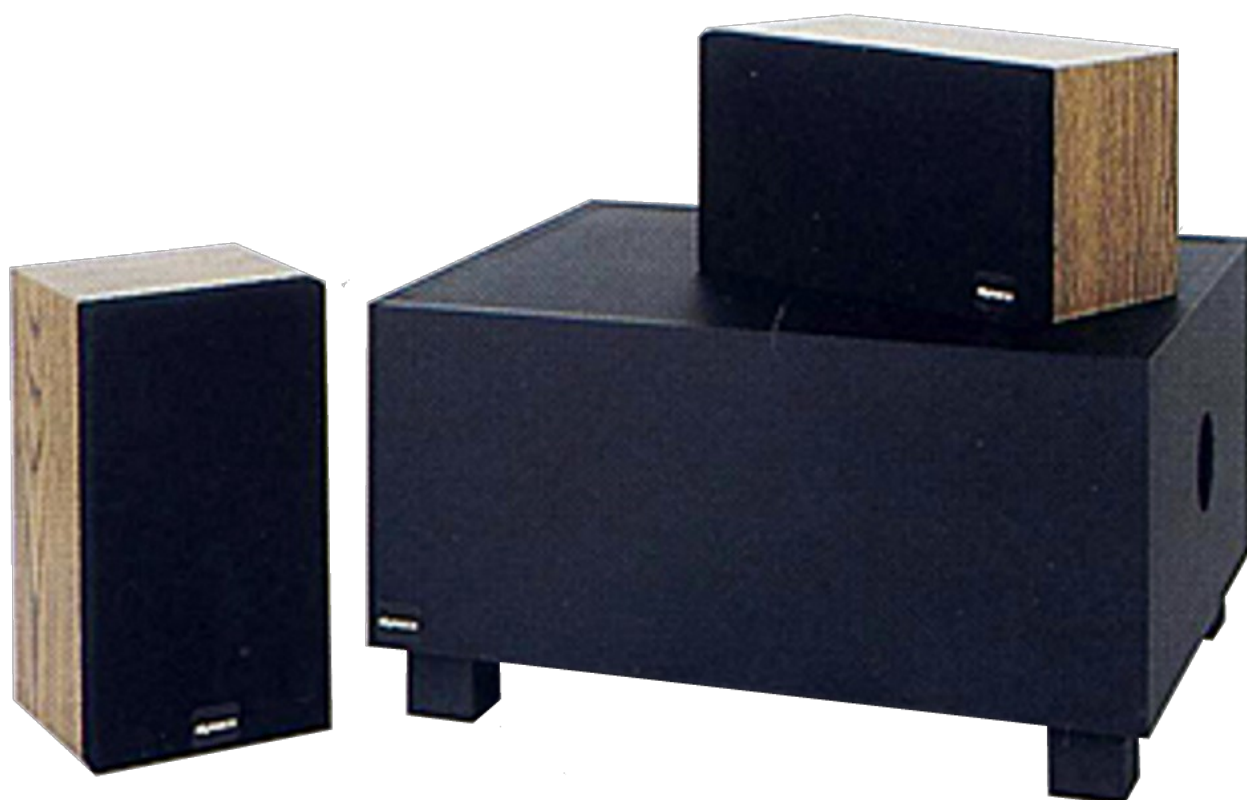
A-10

(Options)

Smallest model of Panor's Options line intended for use with the Amazing Bass subwoofer.



Years Produced	1990-1993	
Dimensions (HxWxD)	9"x5"x5.1"	
Weight	7lbs	
Frequency Response	100Hz-20kHz ±3dB	
Sensitivity	89dB/W/m	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	75W	
Treble	2.5" Paper Cone	
Midrange/Bass	4" Paper Cone	
Crossover Frequency	6.3kHz	
Enclosure Type	Bass Reflex	
Finish	Black Oak Vinyl, Medium Oak Vinyl	
MSRP (1990)	\$50	



In the Wild...



A-10 Type II

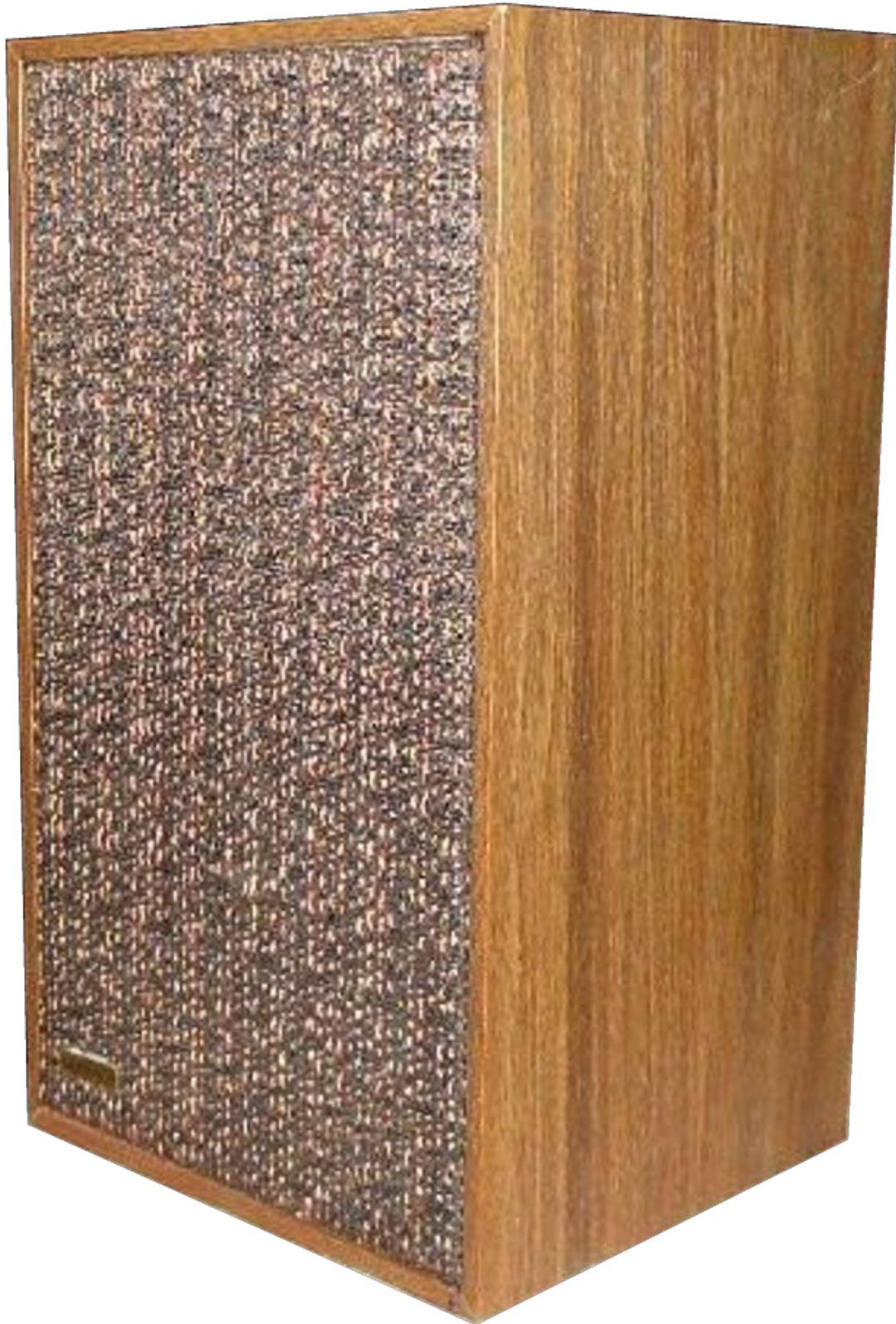
Panor's revision of the A-10 meant as a free add-on to the QD-1/Series II-L home theater system.



Years Produced	1993-1998	
Dimensions (HxWxD)	9"x5"x5"	
Weight	5lbs	
Frequency Response	100Hz-18kHz \pm 3dB	
Sensitivity	90dB/W/m	
Impedance (Nominal)	8 Ω	
Power Handling (Nominal)	75W	
Treble	0.75" Titanium Dome	
Midrange/Bass	4" Polypropylene Cone	
Crossover Frequency	3kHz	
Enclosure Type		
Finish	Black Oak Vinyl	
MSRP (1996)	\$120/pr	

A-10VW

Lower cost vinyl clad variant of the A-10 introduced with the A-25XL and A-40XL.



Years Produced	1974-1977	
Dimensions (HxWxD)	15"x8.5"x8"	
Weight	15lbs	
Frequency Response	50Hz-15kHz ±4dB	
Sensitivity	87dB/W/m	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	15W	
Power Handling (Nominal)	25W	
Power Handling (Peak)	50W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	6.5" Paper Cone	SEAS 17 TV-GWB
Crossover Frequency	2.5kHz	
Enclosure Type	Aperiodic	
Enclosure Volume	10l	
Finish	Walnut Vinyl	
MSRP (1976)	\$110/pr	



In the Wild...



A-15

(Options)

Model introduced in Panor's Options line.



Years Produced	1990-1993	
Dimensions (HxWxD)	13"x7.1"x8.25"	
Weight	10lbs	
Frequency Response	80Hz-20kHz \pm 3dB	
Sensitivity	90dB/W/m	
Impedance (Nominal)	8 Ω	
Power Handling (Nominal)	90W	
Treble	2.5" Paper Cone	
Midrange/Bass	5.25" Paper Cone	
Crossover Frequency	6.3kHz	
Enclosure Type	Bass Reflex	
Finish	Black Oak Vinyl, Medium Oak Vinyl	
MSRP (1990)	\$65	

In the Wild...



A-15 Type II

Years Produced	1993	
Dimensions (HxWxD)		
Weight		
Frequency Response	55Hz-20kHz \pm 3dB	
Sensitivity		
Impedance (Nominal)	8 Ω	
Power Handling (Nominal)	90W	
Treble	0.75" Soft Dome	
Midrange/Bass	5.25" Mica-filled Polypropylene Cone	
Crossover Frequency		
Enclosure Type	Bass Reflex	
Finish	Black Oak Vinyl, Medium Oak Vinyl	
MSRP (1993)	\$90	

A-20 Type II

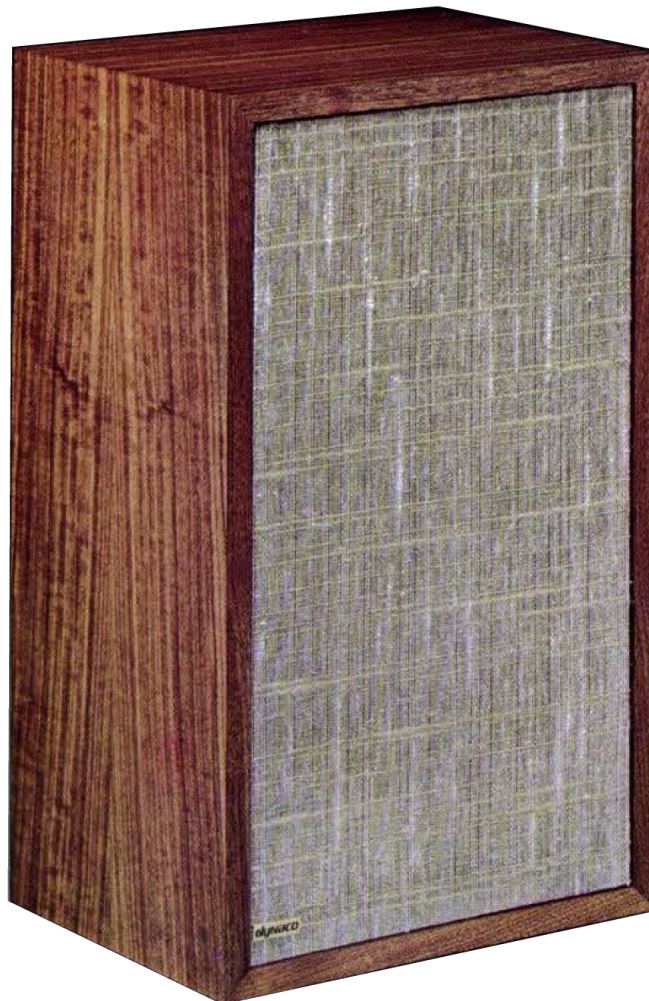
Years Produced	1993	
Dimensions (HxWxD)		
Weight		
Frequency Response	45Hz-20kHz \pm 3dB	
Sensitivity		
Impedance (Nominal)	8 Ω	
Power Handling (Nominal)	140W	
Treble	0.75" Soft Dome	
Midrange/Bass	6.5" Mica-filled Polypropylene Cone	
Crossover Frequency		
Enclosure Type	Bass Reflex	
Finish	Black Oak Vinyl, Medium Oak Vinyl	
MSRP (1993)	\$110	

A-25
(Early Production)



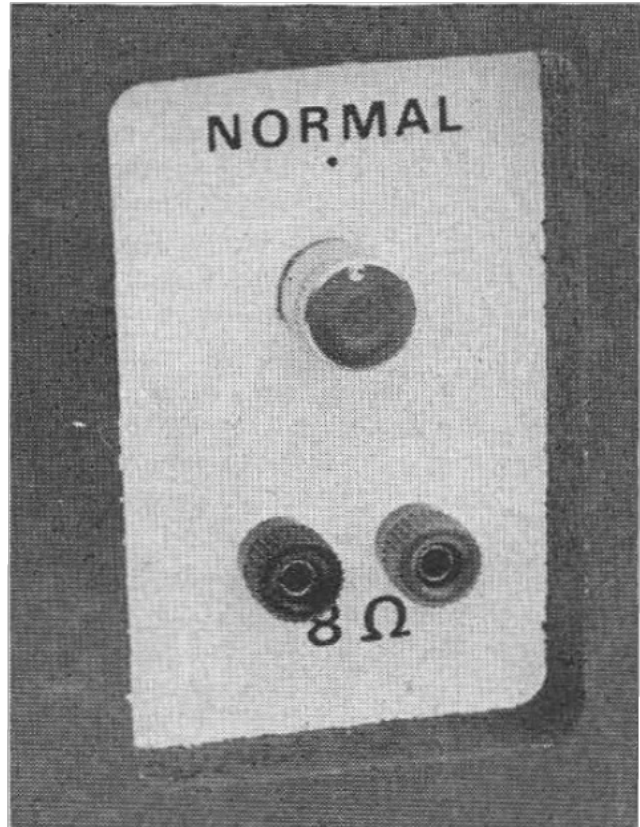
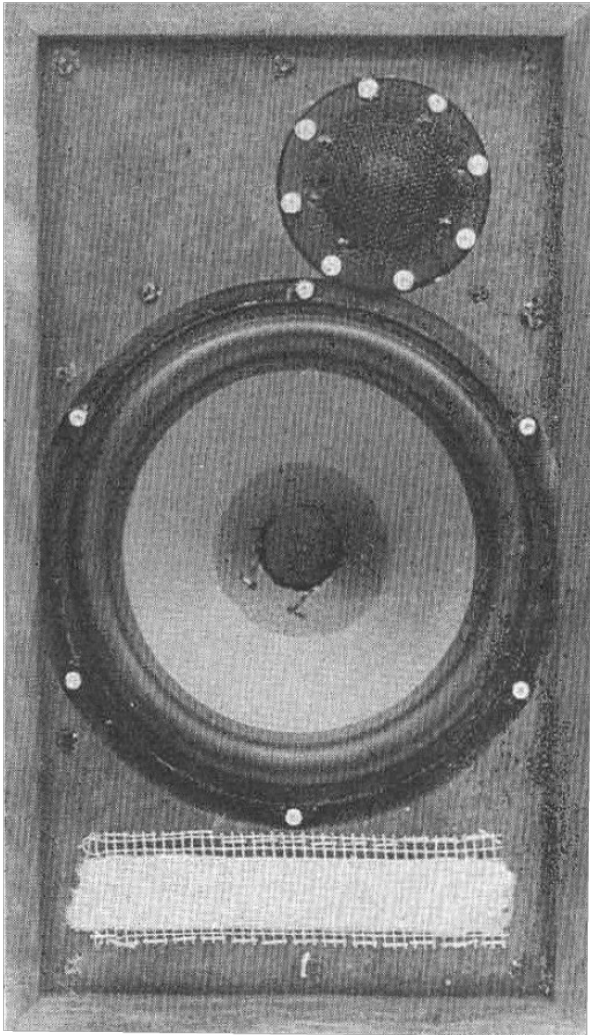
Years Produced	1969-1970	
Dimensions (HxWxD)	19.7"x11.4"x9.8" (50cmx29cmx25cm)	
Frequency Response	47Hz-20kHz \pm 5dB	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8 Ω	
Power Handling (Nominal, DIN)	35W	
Power Handling (Peak, DIN)	60W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency	1.5kHz	
Crossover Slope	6dB/Octave	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut, Teak, Rosewood*	
MSRP (1969)	\$79.95, \$89.95 (Teak, Rosewood)	

*After the introduction of the A-25VW, Dynaco's literature would use a similar naming scheme for the optional wood finishes: rosewood becoming the model A-25R and teak listed as the A-25T.



Additional Details

These units from the first few months of production are distinguished by the use of metal hardware cloth for the aperiodic vent, a screw for every mounting hole for the tweeter, a different knob for treble adjustment and a markedly different crossover from later variants.



In the Wild...



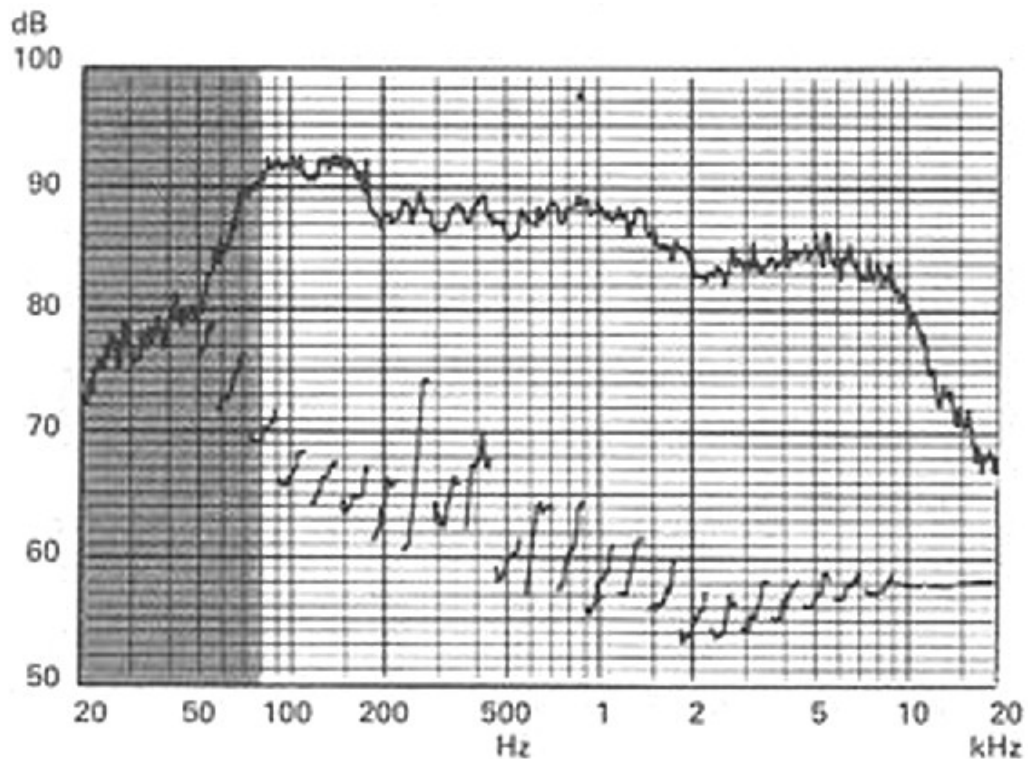
A-25

(Philips Tweeter)

SEAS tweeter replaced with Philips tweeter when SEAS production of the H087 was unable to meet demand and due to chilled relations between Scan-Dyna and SEAS in response to the founding of Scan-Speak.



Years Produced	1970	
Dimensions (HxWxD)	19.7"x11.4"x9.8" (50cmx29cmx25cm)	
Frequency Response	32Hz-20kHz	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	35W	
Power Handling (Peak, DIN)	90W	
Treble	1" Polycarbonate Dome	Philips AD 0160/T8
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency	1.5kHz	
Crossover Slope	6dB/Octave	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Dispersion (10kHz)	100°	
Finish	Walnut, Rosewood, Teak	



In the Wild...



A-25

(Alternate Baffle, Peerless Woofer, Philips Tweeter)

Variant built when SEAS driver production was unable to match demand and due to strained relations with the founding of Scan-Speak. Unusual for the A-25 design, an inductor was added to the woofer in the crossover to make the Peerless driver work in the design. Baffle flipped to put tweeter on left. This was not done intentionally to create mirror-imaged pairs, but that was the inadvertent result when stock mixed during both changeovers.



Years Produced	1970	
Dimensions (HxWxD)	19.7"x11.4"x9.8" (50cmx29cmx25cm)	
Frequency Response		
Sensitivity (DIN, 96dB/m)		
Impedance (Nominal)	8Ω	
Power Handling (Nominal)		
Power Handling (Peak, DIN)		
Treble	1" Polycarbonate Dome	Philips AD 0160/T8
Midrange/Bass	10" Paper Cone	Peerless ?L100WG?
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut	



A-25

(Scan-Speak Tweeter)

When the Philips tweeter failed to meet performance expectations and, too, threatened to present supply issues, the newly formed Scan-Speak was tasked with making a clone driver of the SEAS H087 dome. This variant was produced until relations with SEAS improved and SEAS was able to upgrade the facilities of Videbæk Højtalerfabrik (later Vifa) to increase production and stabilize supply to manufacturers.

Years Produced	1971-1972	
Dimensions (HxWxD)	19.7"x11.4"x9.8" (50cmx29cmx25cm)	
Weight	20lbs (9kg)	
Frequency Response	30Hz-20kHz	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	35W	
Power Handling (Peak, DIN)	90W	
Treble	1.5" Textile Dome	Scan-Speak D3804 (509019)
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency	1.5kHz	
Crossover Slope	6dB/Octave	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut	

A-25

(Alternate Baffle, SEAS Tweeter)

Improved driver production with SEAS due to upgrades to the Videbæk Højtalerfabrik factory and improved company relations brought the return of SEAS drivers to the A-25.



Years Produced	1971-1972	
Dimensions (HxWxD)	19.7"x11.4"x9.8" (50cmx29cmx25cm)	
Frequency Response	47Hz-20kHz \pm 5dB	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8 Ω	
Power Handling (Nominal, DIN)	35W	
Power Handling (Peak, DIN)	60W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency	1.5kHz	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut, Teak, Rosewood	
MSRP (1971)	\$79.95, \$89.95 (Teak, Rosewood)	

A-25

(Alternate Baffle, Alternate Grille)

Alternate grille frame used primarily in Scan-Dyna brand sister models that was employed on some Dynaco units.



Years Produced	1971-1972	
Dimensions (HxWxD)	19.7"x11.4"x9.8" (50cmx29cmx25cm)	
Frequency Response	47Hz-20kHz \pm 5dB	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8 Ω	
Power Handling (Nominal, DIN)	35W	
Power Handling (Peak, DIN)	60W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency	1.5kHz	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut, Teak, Rosewood	
MSRP (1971)	\$79.95, \$89.95 (Teak, Rosewood)	

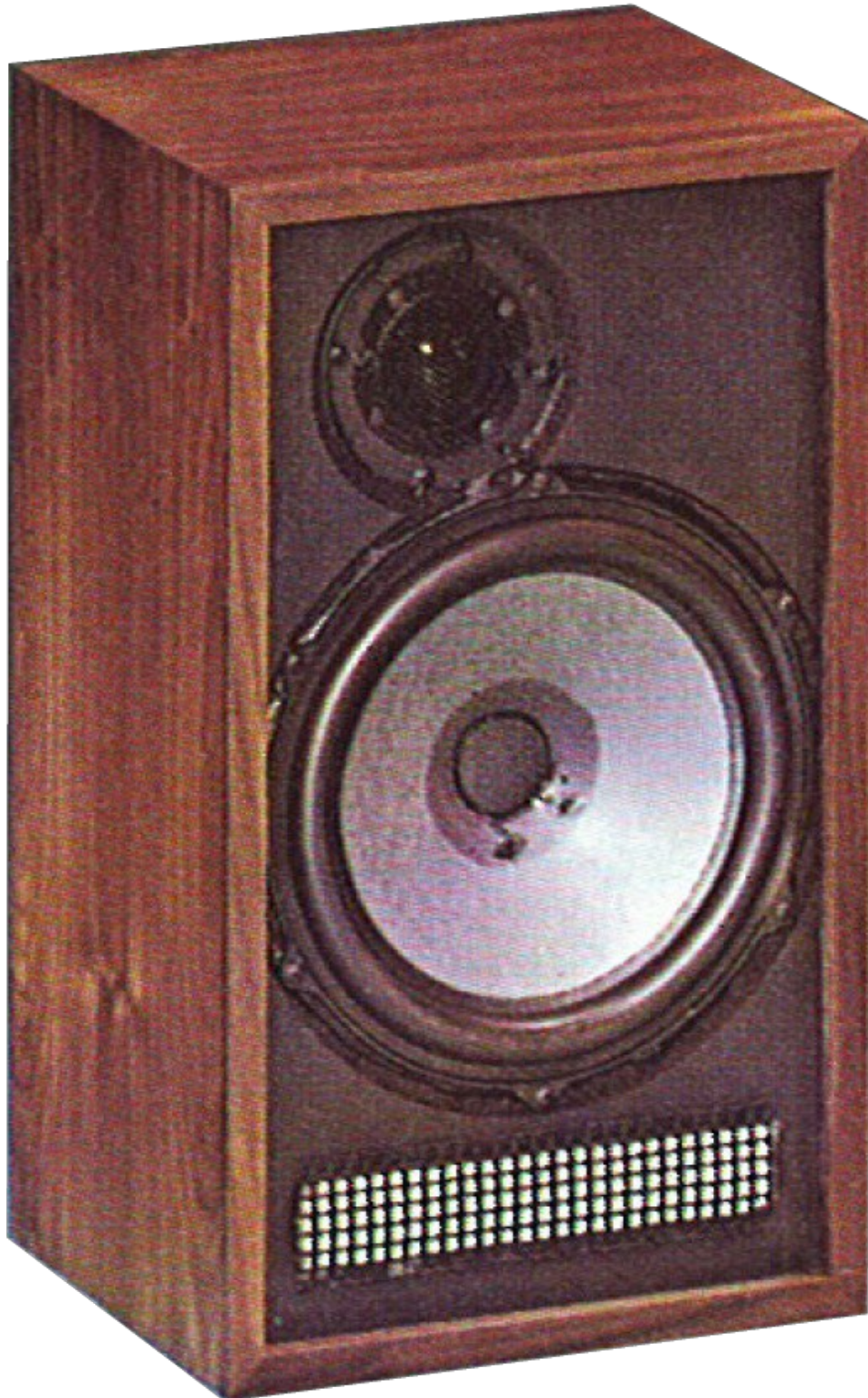
In the Wild...



A-25

(Alternate Baffle, Tweeter Bevel)

Bevel added around tweeter recess to address diffraction issues.



Years Produced	1971-1972	
Dimensions (HxWxD)	19.7"x11.4"x9.8" (50cmx29cmx25cm)	
Frequency Response	47Hz-20kHz ±5dB	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal, DIN)	35W	
Power Handling (Peak, DIN)	60W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency	1.5kHz	
Crossover Slope	6dB/Octave	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut, Teak, Rosewood	
MSRP (1971)	\$79.95, \$89.95 (Teak, Rosewood)	



In the Wild...



A-25

(Alternate Baffle, Tweeter Bevel, Alternate Grille)

Alternate grille frame used primarily in Scan-Dyna brand sister models that was employed on some Dynaco units.



Years Produced	1971-1972	
Dimensions (HxWxD)	19.7"x11.4"x9.8" (50cmx29cmx25cm)	
Frequency Response	47Hz-20kHz ±5dB	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal, DIN)	35W	
Power Handling (Peak, DIN)	60W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency	1.5kHz	
Crossover Slope	6dB/Octave	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut, Teak, Rosewood	
MSRP (1971)	\$79.95, \$89.95 (Teak, Rosewood)	

In the Wild...



A-25

(Mid Production)

Baffle orientation returned to original.



Years Produced	197?	
Dimensions (HxWxD)	20"x11.5"x10" (50cmx29cmx25cm)	
Frequency Response	44Hz-15kHz \pm 5dB	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8 Ω	
Power Handling (Nominal, DIN)	35W	
Power Handling (Peak, DIN)	60W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency	1.5kHz	
Crossover Slope	6dB/Octave	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut, Teak, Rosewood	
MSRP (1973)	\$89, \$99 (Teak, Rosewood)	



A-25

(Mid Production, Alternate Grille)

Alternate grille frame used primarily in Scan-Dyna brand sister models that was employed on some Dynaco units.



Years Produced	197?	
Dimensions (HxWxD)	20"x11.5"x10" (50cmx29cmx25cm)	
Frequency Response	44Hz-15kHz \pm 5dB	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8 Ω	
Power Handling (Nominal, DIN)	35W	
Power Handling (Peak, DIN)	60W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency	1.5kHz	
Crossover Slope	6dB/Octave	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut, Teak, Rosewood	
MSRP (1973)	\$89, \$99 (Teak, Rosewood)	

A-25

(US Production)

In essence, a United Speaker Systems produced A-25VW with walnut veneer as opposed to vinyl. Likely one of the units Ed Laurent (responsible for product quality control at the time) refused to release for sale due to failing to meet established standards. Apparently sold at some point when old stock was released after Laurent left Dynaco.



Years Produced	197?	
Dimensions (HxWxD)	20"x11.5"x10"	
Weight	24lbs	
Frequency Response		
Sensitivity		
Sensitivity (DIN, 96dB/m)		
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	20-60W	
Power Handling (Nominal, DIN 45.500)	35W	
Power Handling (Peak)	60W	
Treble	1.5" Textile Dome	United Speaker Systems HT-160-1
Midrange/Bass	10" Paper Cone	United Speaker Systems
Crossover Frequency	1.5kHz	
Enclosure Type	Aperiodic	
Finish	Walnut, Rosewood	
MSRP		

In the Wild...



A-25

(Late Production)

Woofer changed to SEAS 25 TV-EW SP (may or may not be marked so) with the improved SEAS 25 F-EW basket.



Years Produced	1974-1977	
Dimensions (HxWxD)	19.7"x11.4"x9.8" (50cmx29cmx25cm)	
Frequency Response	47Hz-20kHz ±5dB	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal, DIN)	35W	
Power Handling (Peak, DIN)	60W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW SP
Crossover Frequency	1.5kHz	
Crossover Slope	6dB/Octave	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut	
MSRP (1976)	\$99	
Dealer Cost (1976)	\$61.67	

A-25

(End of Production)

Tail end of production utilizing A-25XL cabinets without bevel around tweeter.



Years Produced	1974-1977	
Dimensions (HxWxD)	19.7"x11.4"x9.8" (50cmx29cmx25cm)	
Frequency Response	47Hz-20kHz \pm 5dB	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8 Ω	
Power Handling (Nominal, DIN)	35W	
Power Handling (Peak, DIN)	60W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW SP
Crossover Frequency	1.5kHz	
Crossover Slope	6dB/Octave	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut	
MSRP (1976)	\$99	

A-25

(Options)

Model introduced in Panor's Options line.



Years Produced	1990-1993	
Dimensions (HxWxD)	16.5"x9"x9.9"	
Weight	20lbs	
Frequency Response	68Hz-20kHz \pm 3dB	
Sensitivity	91dB/W/m	
Impedance (Nominal)	8 Ω	
Power Handling (Nominal)	125W	
Treble	2.5" Paper Cone	
Midrange/Bass	6.5" Paper Cone	
Crossover Frequency	6.3kHz	
Enclosure Type	Bass Reflex	
Finish	Black Oak Vinyl, Medium Oak Vinyl	
MSRP (1990)	\$80	

A-25 Classic

Panor era tribute to the original Dynaco A-25.



Years Produced	1996-1998	
Dimensions (HxWxD)	16.5"x9"x9.75"	
Weight	23lbs	
Frequency Response	45Hz-21kHz	
Sensitivity	89dB/W/m	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	100W	
Treble	1" Aluminum Dome	
Midrange/Bass	7" Cone	
Crossover Frequency	2.5kHz	
Crossover Slope	6dB/Oct	
Enclosure Type	Aperiodic	
Finish	Walnut	
MSRP (1996)	\$758/pr	



In the Wild...



A-25 II

ESS bought Dynaco in 1979 continuing production of extant models until 1980 before selling off remaining stock. Said stock including remaining A-25 Mark II speakers was purchased by Stereo Cost Cutters with many other Dynaco assets and sold by them in the first few years of the 1980s. Vifa tweeter appears to have been their change to the original design.



Years Produced	?1980?-198?	
Dimensions (HxWxD)	19.75"x12"x10" (50cmx29cmx25cm)	
Frequency Response	38Hz-18kHz ±3dB	
Sensitivity	94dB/W/m	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>12W	
Treble	1" Dome	Vifa D25
Midrange/Bass	10" Paper Cone	SEAS 25 F-EW
Crossover Frequency	1.6kHz	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut	
MSRP (1978)	\$119	

In the Wild...



A-25 Mark II

(Early Production)

Early A-25 Mark II based on the A-25 before the change to being based on the A-25XL.



Years Produced	1978	
Dimensions (HxWxD)	19.75"x12"x10" (50cmx29cmx25cm)	
Frequency Response	38Hz-18kHz \pm 3dB	
Sensitivity	94dB/W/m	
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power	>12W	
Treble	1" Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency	1.5kHz	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut	

In the Wild...



A-25 Mark II

Last A-25 model produced by Dynaco as a design refresh of the A-25XL. Not to be confused with the UK only A-25 Mk II.



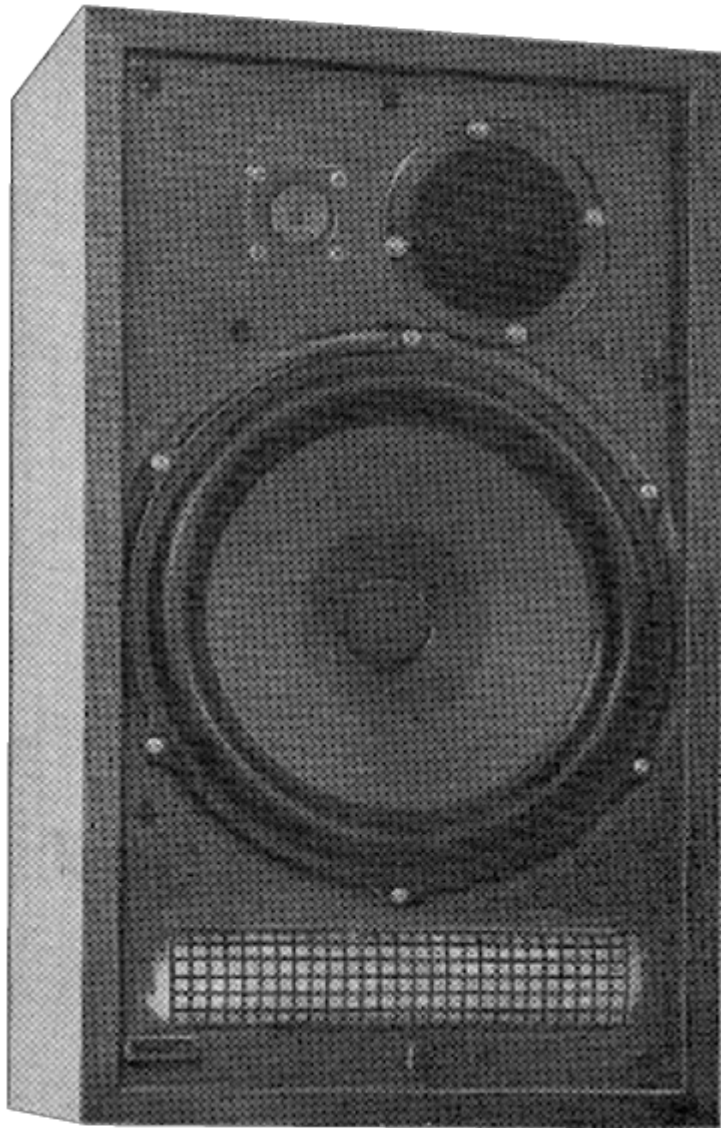
Years Produced	1978-1979	
Dimensions (HxWxD)	19.75"x12"x10" (50cmx29cmx25cm)	
Frequency Response	38Hz-18kHz ±3dB	
Sensitivity	94dB/W/m	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>12W	
Treble	1" Dome	SEAS H086
Midrange/Bass	10" Paper Cone	SEAS 25 F-EW
Crossover Frequency	1.6kHz	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut	
MSRP (1978)	\$119	

In the Wild...



A-25 MkII

UK market specific version of the A-25 with the addition of a supertweeter.



Years Produced	1971-1972	
Dimensions (HxWxD)	19.7"x11.4"x9.8" (50cmx29cmx25cm)	
Weight	22lbs	
Frequency Response	32Hz-20kHz	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	35W	
Power Handling (Peak, DIN)	90W	
Supertweeter	2" Paper Cone	SEAS 5 TV-HF
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequencies	1.5kHz, ??kHz	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Teak, Rosewood, Walnut	
MSRP (1971)	£32	

In the Wild...



A-25 Series II

(A-25II)

Panor era design for their Series II releases. Released in Japan as the A-25II.



Years Produced	1990-1997	
Dimensions (HxWxD)	20"x12"x13"	
Weight	30lbs	
Frequency Response	30Hz-20kHz \pm 3dB	
Sensitivity	92dB/W/m	
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power	>10W	
Power Handling (Peak)	200W	
Treble	1" Soft Dome	
Midrange/Bass	9" Poly Cone	
Crossover Frequency	2kHz	
Finish	Natural Oak, Black Oak	
MSRP (1993)	\$320	



A-25R

Designation of the rare version of the A-25 with the optional rosewood veneer finish introduced into the literature in 1974 with the A-25VW to differentiate versions.



Years Produced	1969-1970, 1971-1977	
Dimensions (HxWxD)	19.7"x11.4"x9.8" (50cmx29cmx25cm)	
Frequency Response	47Hz-20kHz ±5dB	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal, DIN)	35W	
Power Handling (Peak, DIN)	60W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency	1.5kHz	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Rosewood	
MSRP (1969)	\$89.95	

In the Wild...



A-25T

Designation of the rare version of the A-25 with the optional teak veneer finish introduced into the literature in 1974 with the A-25VW to differentiate versions.



Years Produced	1969-1970, 1971-1977	
Dimensions (HxWxD)	19.7"x11.4"x9.8" (50cmx29cmx25cm)	
Frequency Response	47Hz-20kHz \pm 5dB	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8 Ω	
Power Handling (Nominal, DIN)	35W	
Power Handling (Peak, DIN)	60W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency	1.5kHz	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Teak	
MSRP (1969)	\$89.95	

A-25VW

Lower cost US built A-25 variant. Designed and built by United Speaker Systems for Dynaco.



Years Produced	1974-1976	
Dimensions (HxWxD)	20"x11.5"x10"	
Weight	24lbs	
Frequency Response		
Sensitivity		
Sensitivity (DIN, 96dB/m)		
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	20-60W	
Power Handling (Nominal, DIN 45.500)	35W	
Power Handling (Peak)	60W	
Treble	1.5" Textile Dome	United Speaker Systems HT-160-1
Midrange/Bass	10" Paper Cone	United Speaker Systems
Crossover Frequency	1.5kHz	
Enclosure Type	Aperiodic	
Finish	Walnut Vinyl	
MSRP (1975)	\$79.95	

In the Wild...



A-25VW

(Late Production)

Later production unit where the tweeter diaphragm is now orange. No difference in performance.



Years Produced	1976-1977	
Dimensions (HxWxD)	20"x11.5"x10"	
Weight	24lbs	
Frequency Response		
Sensitivity		
Sensitivity (DIN, 96dB/m)		
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	20-60W	
Power Handling (Nominal, DIN 45.500)	35W	
Power Handling (Peak)	60W	
Treble	1.5" Textile Dome	United Speaker Systems HT-160-1
Midrange/Bass	10" Paper Cone	United Speaker Systems
Crossover Frequency	1.5kHz	
Enclosure Type	Aperiodic	
Finish	Walnut Vinyl	
MSRP (1976)	\$84	

A-25X

(Early Production)

European market variant of the A-25XS. Most recognizable for the aperiodic vent being located above the tweeter rather than below the woofer.



Years Produced	1970	
Dimensions (HxWxD)	20"x11.5"x10" (50cmx29cmx25cm)	
Weight	18lbs (9kg)	
Frequency Response (DIN 45.500)	32Hz-20kHz	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	35W	
Power Handling (Peak, DIN)	90W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency	1.5kHz	
Crossover Slope	6dB/Octave	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	

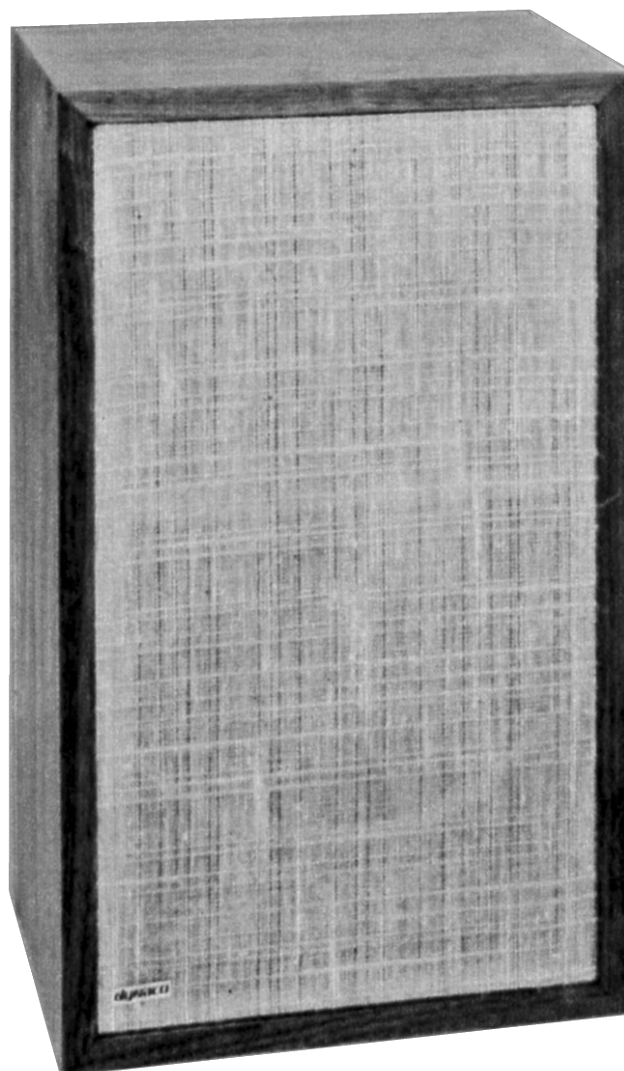
A-25X

(Scan-Speak Variant)

European market variant of the A-25XS. Most recognizable for the aperiodic vent being located above the tweeter rather than below the woofer. Scan-Speak drivers used due to supply issues with SEAS sourced units.



Years Produced	1970-1972	
Dimensions (HxWxD)	20"x11.5"x10" (50cmx29cmx25cm)	
Weight	18lbs (9kg)	
Frequency Response (DIN 45.500)	32Hz-20kHz	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	35W	
Power Handling (Peak, DIN)	90W	
Treble	1.5" Textile Dome	Scan-Speak D3804
Midrange/Bass	10" Paper Cone	Scan-Speak 509119 S
Crossover Frequency	1.5kHz	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut	



In the Wild...



A-25X

(Three-Way Variant)

A-25X with added supertweeter akin to the A-25 MkII.



Years Produced	197?	
Dimensions (HxWxD)	19.7"x11.4"x9.8" (50cmx29cmx25cm)	
Weight	22lbs	
Frequency Response	32Hz-20kHz	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	35W	
Power Handling (Peak, DIN)	90W	
Supertweeter	2" Paper Cone	SEAS 5 TV-HF
Treble	1.5" Textile Dome	Scan-Speak D3804
Midrange/Bass	10" Paper Cone	Scan-Speak 509119 S
Crossover Frequencies	1.5kHz, ??kHz	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut	

A-25X

(SEAS Woofer, Variant Baffle)

Periodic vent moved back below woofer. Tweeter located on left side of baffle. Indistinguishable from A-25 produced at same time but for additional information sheet glued to back with model nomenclature.



Years Produced	1971-1972	
Dimensions (HxWxD)	20"x11.5"x10" (50cmx29cmx25cm)	
Weight	18lbs (9kg)	
Frequency Response (DIN 45.500)	32Hz-20kHz	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	35W	
Power Handling (Peak, DIN)	90W	
Treble	1.5" Textile Dome	Scan-Speak D3804
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency	1.5kHz	
Crossover Slope	6dB/Octave	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	

A-25X

(SEAS Variant)

Return to SEAS drivers and introduction of bevel around tweeter.



Years Produced	1972-1974	
Dimensions (HxWxD)	20"x11.5"x10" (50cmx29cmx25cm)	
Weight	18lbs (9kg)	
Frequency Response (DIN 45.500)	32Hz-20kHz	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	35W	
Power Handling (Peak, DIN)	90W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency	1.5kHz	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut	

A-25X

(SEAS Variant, Late Production)

Late production units manufactured with the newer round frame 25 TV-EW and a unique cut out grille frame.



Years Produced	1974	
Dimensions (HxWxD)	20"x11.5"x10" (50cmx29cmx25cm)	
Weight	18lbs (9kg)	
Frequency Response (DIN 45.500)	32Hz-20kHz	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	35W	
Power Handling (Peak, DIN)	90W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency	1.5kHz	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut	



In the Wild...



A-25XL



Years Produced	1974-1977	
Dimensions (HxWxD)	20"x11.5"x10" (508mmx292mmx254mm)	
Weight	25lbs (11kg)	
Frequency Response	44Hz-18kHz \pm 5dB	
Sensitivity	91dB/W/m	
Sensitivity (DIN, 94dB/m)	6.8W	
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power	15-100W	
Power Handling (Nominal, DIN 45.500)	50W	
Treble	1" Textile Dome	SEAS H086
Midrange/Bass	10" Paper Cone	SEAS 25 F-EW
Crossover Frequency	1.2kHz	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut	
MSRP (1974)	\$99	
Dealer Cost (1976)	\$79.33	

In the Wild...



A-25XS

Japanese market variant of the A-25X. Most recognizable for the aperiodic vent being located above the tweeter rather than below the woofer. Literature on back will be printed with "A 25 X" with a stamped "S" after to indicate the A-25XS model as published in advertisements and sales literature.



Years Produced	1971-1972	
Dimensions (HxWxD)	19.7"x11.4"x9.8" (50cmx29cmx25cm)	
Weight	20lbs (9kg)	
Frequency Response	30Hz-20kHz	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	35W	
Power Handling (Peak, DIN)	90W	
Treble	1.5" Textile Dome	Scan-Speak D3804
Midrange/Bass	10" Paper Cone	Scan-Speak 509119 S
Crossover Frequency	1.5kHz	
Crossover Slope	6dB/Octave	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut, White	
MSRP (1971)	¥38,000	

In the Wild...



DYNACO

A 25 X

MODEL: H 50.0 - B 20.0 - D 25.0
FREQUENZ: 20 Hz
VÄRDT: 9 kg

DATA EFTER DIN 45.500
FREKVENSRANGE: 20-20.000 Hz
DRIFTEFF. 20 W
GEMIDELSEEFF. 40 W
VIRKNINGSGRAD: 96 db ved 8.3 W
IMPEDANS: 8 ohm

SIZE: H 20" - W 11 1/2" - D 10"
VOLUME: 20 W
WEIGHT: 18 lbs

SPECIFICATIONS: DIN 45.500
FREQUENCY RANGE: 20-20,000 cps/Hz
POWER RATING: 20 W
MUSIC POWER: 40 W
SENSITIVITY: 96 db @ 8.3 W
IMPEDANCE: 8 ohm

ABMÆTNINGEN: H 50.0 - B 20.0 - T 25.0
VOLUMEN: 20 W
VEKTTAL: 9 kg

DATEN NAER: DIN 45.500
FREKVENSRANGE: 20-20.000 Hz
NOMINALEFF. 20 W
GEMIDELSEEFF. 40 W
VIRKNINGSGRAD: 96 db
IMPEDANS: 8 Ohm

8U
NORM
Made in Denmark

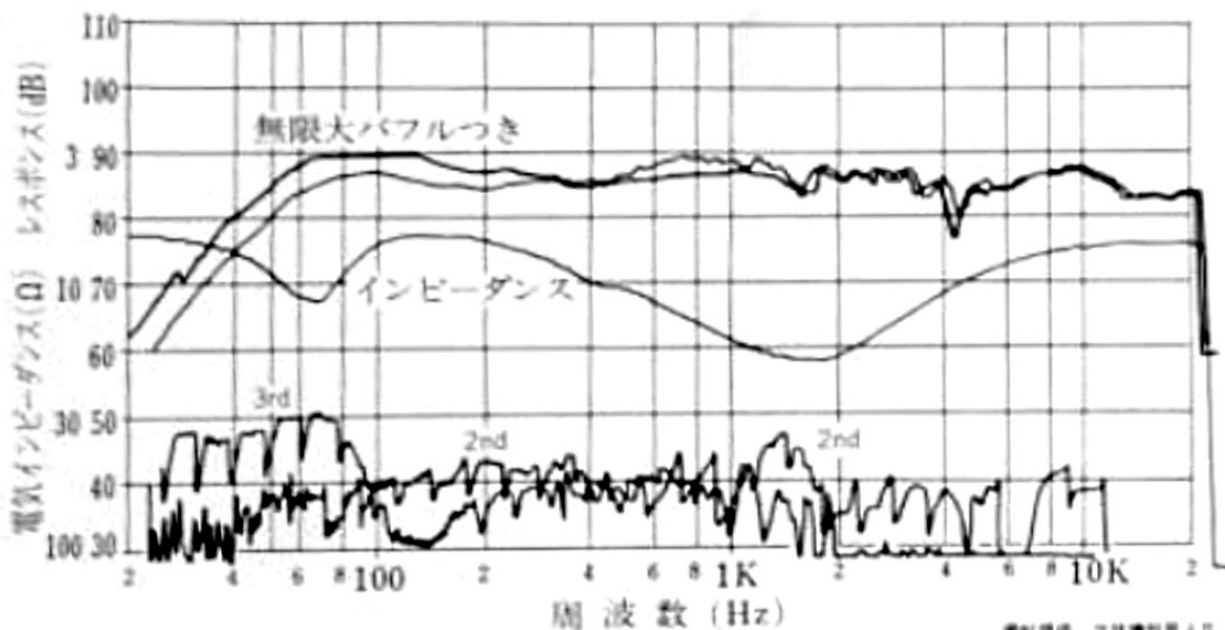
A-25XS

(SEAS Variant)

Japanese market variant. Most recognizable for the aperiodic vent being located above the tweeter rather than below the woofer.



Years Produced	1972-1975	
Dimensions (HxWxD)	19.7"x11.4"x9.8" (50cmx29cmx25cm)	
Weight	20lbs (9kg)	
Frequency Response	30Hz-20kHz	
Sensitivity (JIS)	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	35W	
Power Handling (JIS)	60W	
Power Handling (Peak, DIN)	90W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency	1.5kHz	
Crossover Slope	6dB/Octave	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
MSRP (1972)	¥38,000	



入力1W/1mの周波数、調波ひずみ、インピーダンスの各特性と無限大パフル埋込みの周波数特性

In the Wild...



A-30XL

(Early Production)

Dynaco's first non-LMS three-way model since the success of the A-25. Commonly misidentified as the later A-250.

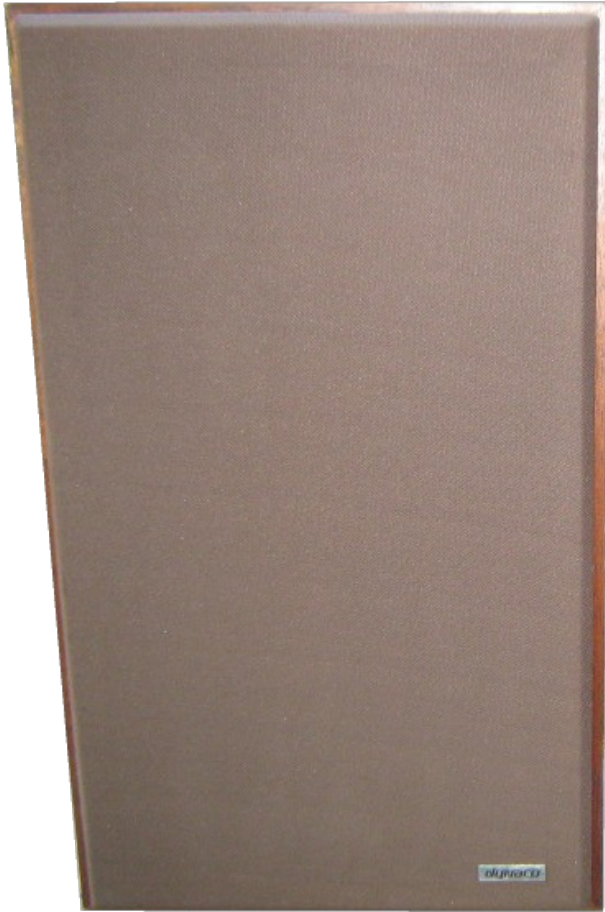
Reviewed in *The Absolute Sound* #13



A-30XL

Years Produced	1978-1979	
Dimensions (HxWxD)	22.5"x13.25"x10"	
Weight		
Frequency Response	30Hz-20kHz \pm 3dB	
Sensitivity	94dB/W/m	
Sensitivity (DIN, 96dB/m)		
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power		
Power Handling (Nominal)		
Power Handling (Peak)		
Treble	1" Textile Dome	SEAS
Midrange	5" Paper Cone	CTS
Bass	10" Paper Cone	
Crossover Frequencies	1kHz, 4.5kHz	
Enclosure Type	Sealed	
Finish	Walnut	
MSRP (1978)	\$149	

In the Wild...



A-30XL

(Late Production)

Tweeter changed from SEAS to the Polydax/Audax that would later turn up again in the A-250.



A-30XL

Years Produced	1978-1979	
Dimensions (HxWxD)	22.5"x13.25"x10"	
Weight		
Frequency Response	30Hz-20kHz \pm 3dB	
Sensitivity	94dB/W/m	
Sensitivity (DIN, 96dB/m)		
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power		
Power Handling (Nominal)		
Power Handling (Peak)		
Treble	1" Textile Dome	Polydax HD100D25
Midrange	5" Paper Cone	CTS
Bass	10" Paper Cone	
Crossover Frequencies	1kHz, 4.5kHz	
Enclosure Type	Sealed	
Finish	Walnut	
MSRP (1978)	\$149	

In the Wild...

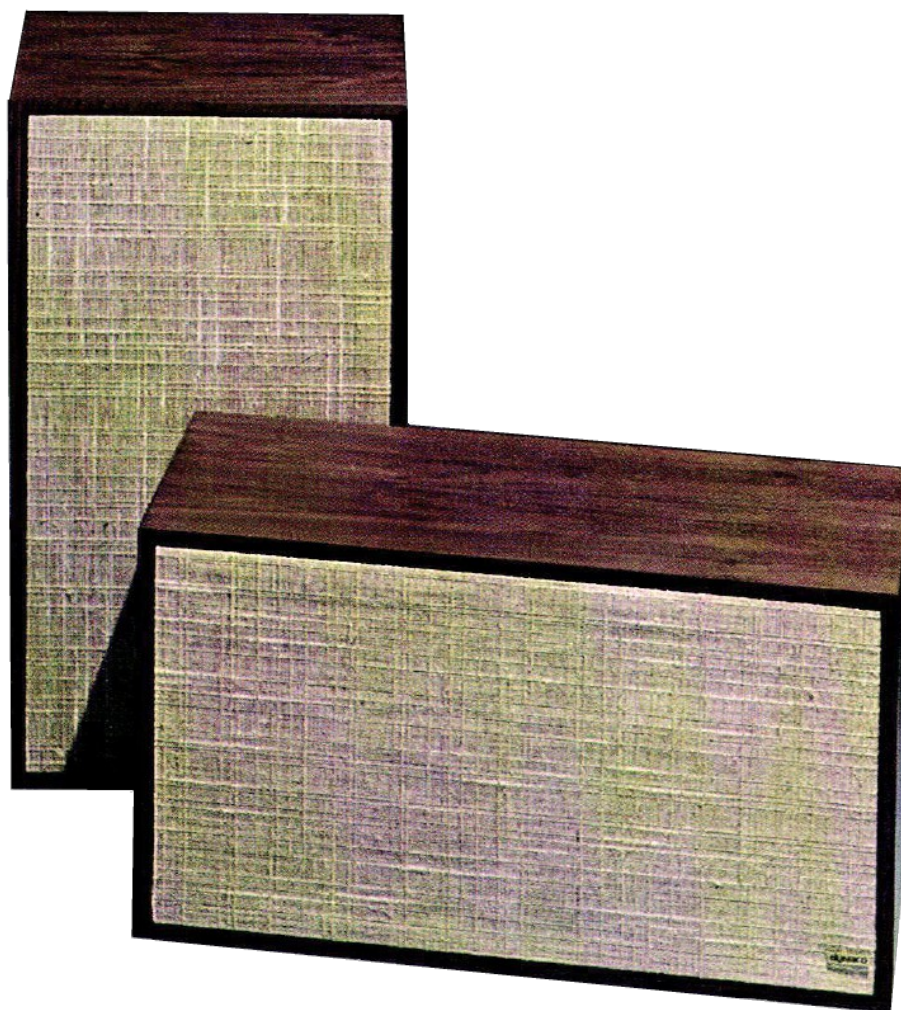


A-35

Larger version of A-25, but with two internal chambers aperiodically vented in what was labeled "dual spectrum damping".



Years Produced	1972-1977	
Dimensions (HxWxD)	22.5"x12.5"x10"	
Weight	30lbs	
Frequency Response	38Hz-17kHz ±5dB	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal, DIN)	35W	
Power Handling (Peak, DIN)	60W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency	1.2kHz	
Enclosure Type	Aperiodic (Internal)	
Enclosure Volume	35l	
Finish	Walnut	
MSRP (1972)	\$119.95	
Dealer Cost (1976)	\$86	



In the Wild...



A-35

(Options)

Model introduced in Panor's Options line.



Years Produced	1990-1993	
Dimensions (HxWxD)	20"x11"x9.9"	
Weight	30lbs	
Frequency Response	50Hz-20kHz \pm 3dB	
Sensitivity	92dB/W/m	
Impedance (Nominal)	8 Ω	
Power Handling (Nominal)	150W	
Treble	2.5" Paper Cone	
Midrange/Bass	8" Paper Cone	
Crossover Frequency	3.2kHz	
Enclosure Type	Bass Reflex	
Finish	Black Oak Vinyl, Medium Oak Vinyl	
MSRP (1990)	\$110	

A-35 Type II

Years Produced	1993	
Dimensions (HxWxD)		
Weight		
Frequency Response	35Hz-20kHz \pm 3dB	
Sensitivity		
Impedance (Nominal)	8 Ω	
Power Handling (Nominal)	180W	
Treble	0.75" Soft Dome	
Midrange/Bass	8" Mica-filled Polypropylene Cone	
Crossover Frequency		
Enclosure Type	Bass Reflex	
Finish	Black Oak Vinyl, Medium Oak Vinyl	
MSRP (1993)	\$150	

A-38

(Options)

Model introduced in Panor's Options line.

Years Produced	1990-1993	
Dimensions (HxWxD)	7.25"x4.5"x4.4"	
Weight	10lbs	
Frequency Response	80Hz-20kHz ±3dB	
Sensitivity	90dB/W/m	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	100W	
Treble	1" Soft Dome	
Midrange/Bass	4" Cone	
Crossover Frequency	2.5kHz	
Enclosure Type	Sealed	
Finish	White Lacquer, Black Lacquer	
MSRP (1990)	\$150	

A-40

(Options)

Model introduced in Panor's Options line.



Years Produced	1990-1993	
Dimensions (HxWxD)	33"x12"x12"	
Weight	40lbs	
Frequency Response	42Hz-20kHz \pm 3dB	
Sensitivity	93dB/W/m	
Impedance (Nominal)	8 Ω	
Power Handling (Nominal)	200W	
Treble	2.5" Paper Cone	
Midrange	4" Cone	
Bass	10" Cone	
Crossover Frequencies	3.2kHz, 8.3kHz	
Enclosure Type	Bass Reflex	
Finish	Black Oak Vinyl, Medium Oak Vinyl	
MSRP (1990)	\$175	

A-40XL

Intended as an upgrade of the A-35 with the new design features of the A-25XL for higher sensitivity and extended high frequency range.



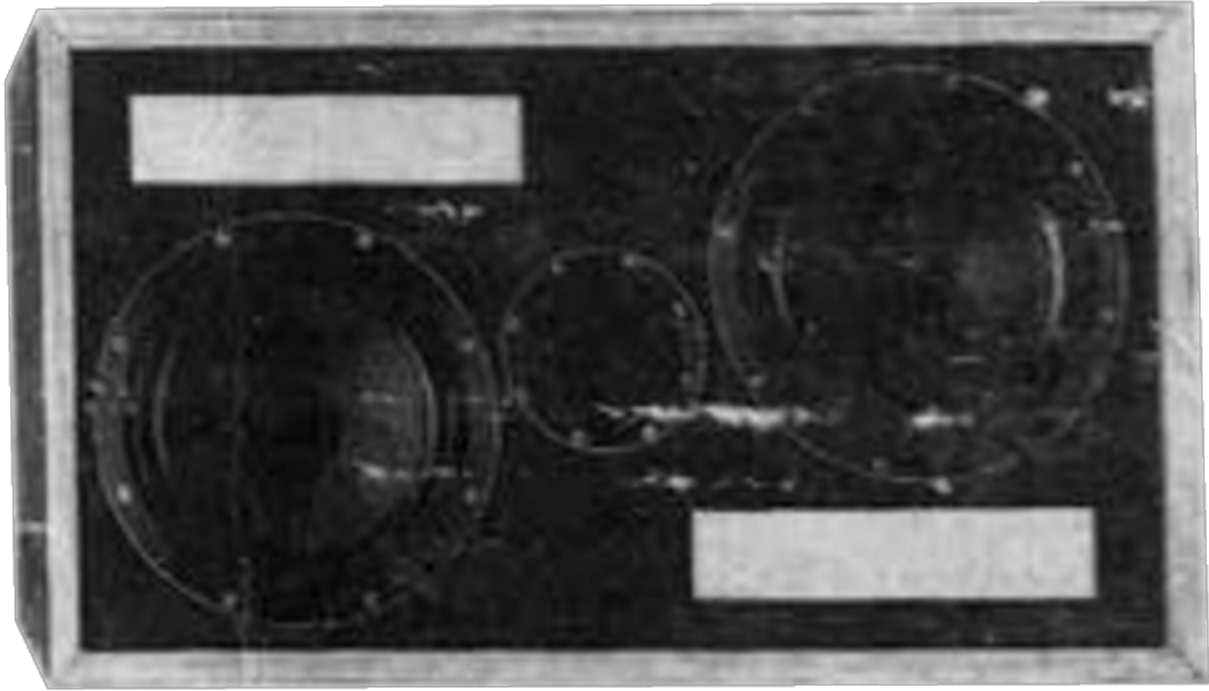
Years Produced	1975-1977	
Dimensions (HxWxD)	22.5"x13.5"x10"	
Weight	32lbs	
Frequency Response	±3dB	
Sensitivity	92dB/W/m	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	15-100W	
Power Handling (Nominal, DIN 45.500)	50W	
Power Handling (Peak)		
Treble	1" Textile Dome	SEAS H086
Midrange/Bass	10" Paper Cone	SEAS 25 F-EW
Crossover Frequency	1.2kHz	
Enclosure Type	Aperiodic (Internal)	
Enclosure Volume		
Finish	Walnut	
MSRP (1975)	\$149	
Dealer Cost (1976)	\$112.67	

In the Wild...



A-45

Two woofer variant of A-25 for extended bass response introduced shortly after A-25 accepted for distribution in the US.



Years Produced	1969-1970	
Dimensions (HxWxD)	23.6"x13.8"x11.8" (60cmx35cmx30cm)	
Frequency Response	25Hz-20kHz	
Sensitivity (DIN, 96dB/m)	4.5W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	60W	
Power Handling (Peak)	120W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	8" Paper Cone (x2)	SEAS 21 TV-EW
Enclosure Type	Aperiodic	
Finish	Walnut	

A-45

(Scan-Speak)

With the loss of access to SEAS H087 tweeters due to production issues and chilled relations between SEAS and Scan-Dyna following the creation of Scan-Speak, the Scan-Speak copy of the H087 was utilized. Baffle layout altered.



Years Produced	1970-1971	
Dimensions (HxWxD)	23.6"x13.8"x11.8" (60cmx35cmx30cm)	
Frequency Response	25Hz-20kHz	
Sensitivity (DIN, 96dB/m)	4.5W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	60W	
Power Handling (Peak)	120W	
Treble	1.5" Textile Dome	Scan-Speak D3804
Midrange/Bass	8" Paper Cone (x2)	?Scan-Speak?
Enclosure Type	Aperiodic	
Finish	Walnut	

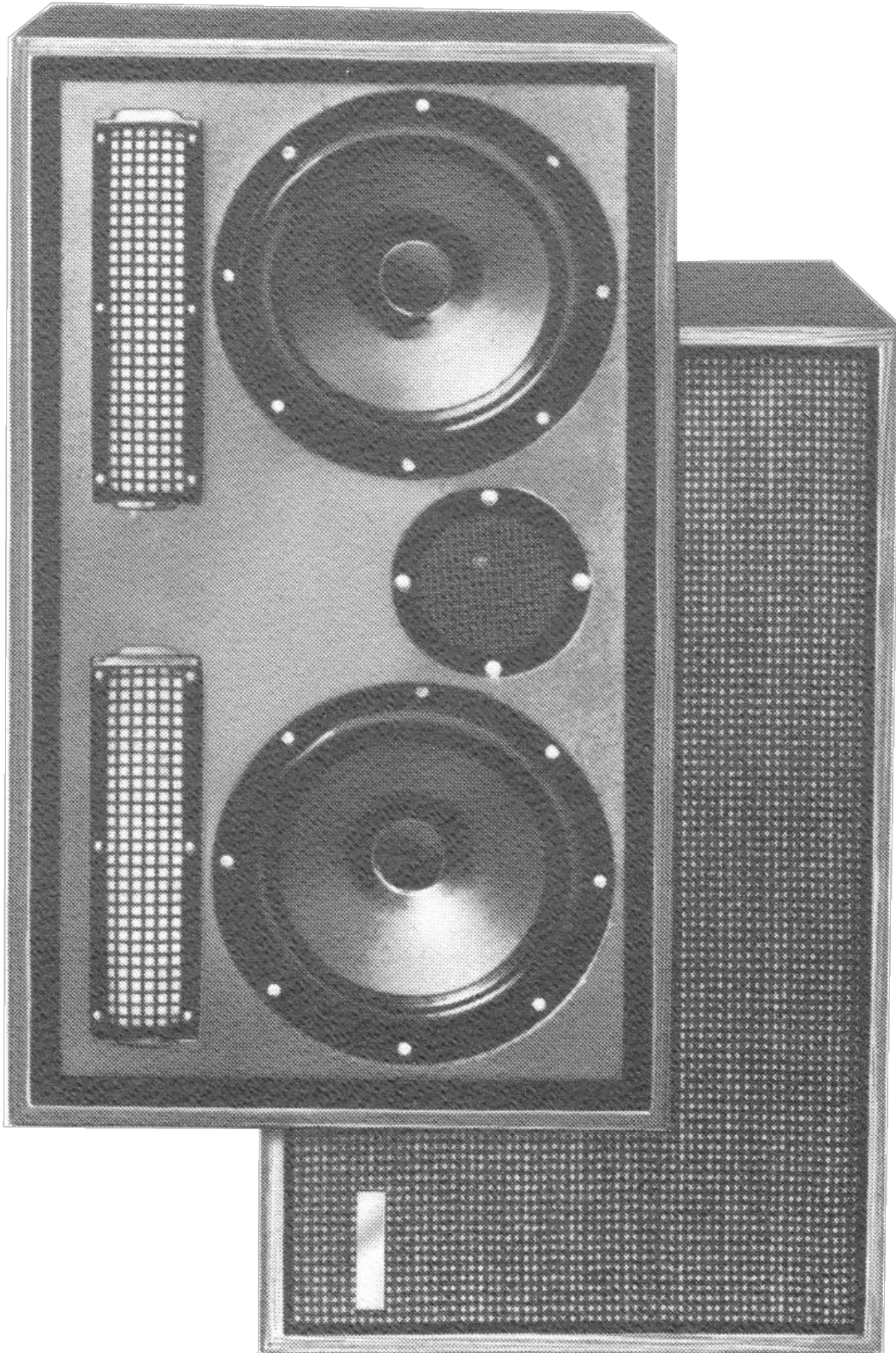
In the Wild...



A-45

(SEAS Tweeter)

Return of SEAS H087 to A-45 to match return in A-25 with new changes to baffle layout.



Years Produced	1971	
Dimensions (HxWxD)	23.6"x13.8"x11.8" (60cmx35cmx30cm)	
Frequency Response	25Hz-20kHz	
Sensitivity (DIN, 96dB/m)	4.5W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	60W	
Power Handling (Peak)	120W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	8" Paper Cone (x2)	SEAS 21 TV-EW
Enclosure Type	Aperiodic	
Finish	Walnut	

In the Wild...



A-45

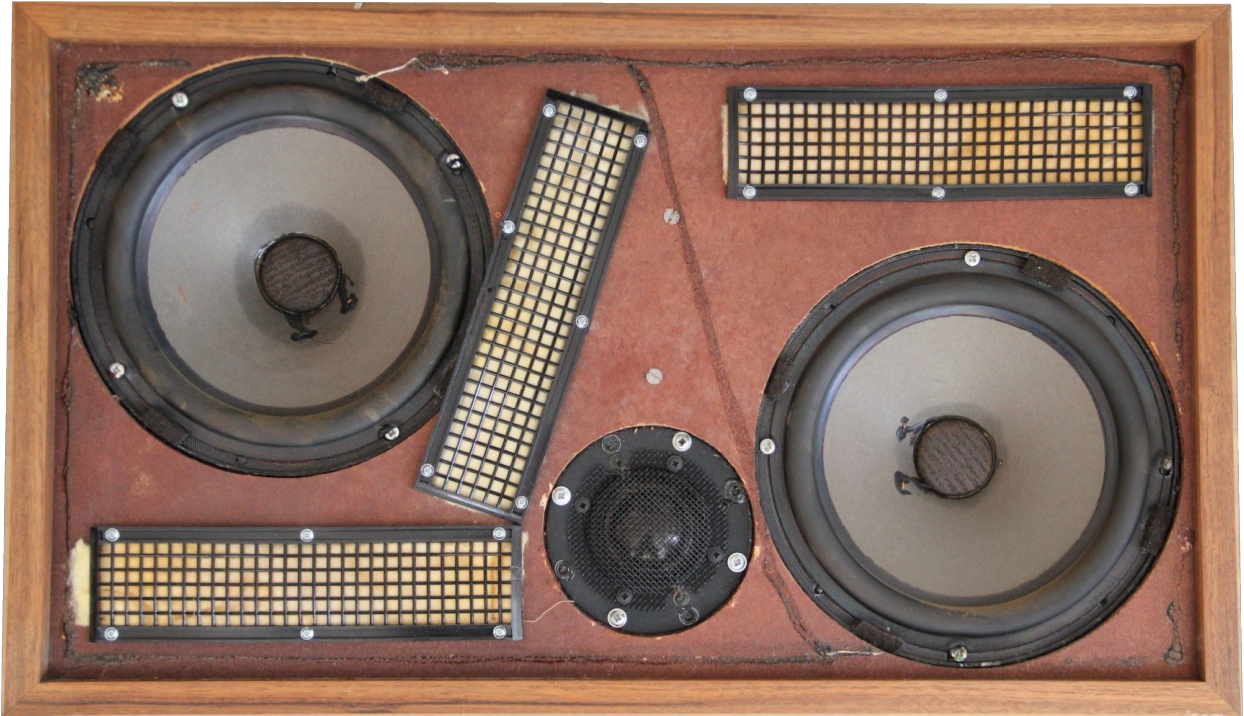
(SEAS Tweeter, Alternate Baffle)

Alternate baffle layout with three aperiodic vents for unknown reasons.

Years Produced	197?	
Dimensions (HxWxD)	23.6"x13.8"x11.8" (60cmx35cmx30cm)	
Frequency Response	25Hz-20kHz	
Sensitivity (DIN, 96dB/m)	4.5W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	60W	
Power Handling (Peak)	120W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	8" Paper Cone (x2)	SEAS 21 TV-EW
Enclosure Type	Aperiodic	
Finish	Walnut	



In the Wild...



A-50

(Very Early Production)

A-45 replaced by a new, larger model upping the dual 8" woofers to dual 15Ω versions of the A-25's 10" woofer and employing a new dual chamber internal aperiodic design.



Years Produced	1970	
Dimensions (HxWxD)	28"x21.5"x10"	
Weight (Shipped)	47lbs (21.4kg)	
Frequency Response	25Hz-20kHz	
Sensitivity (DIN, 96dB/m)	4.5W	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>25W	
Power Handling (Nominal)	50W	
Power Handling (Peak)	75W	
Treble	1.5" Textile Dome	Scan-Speak D3806 (509027)
Midrange/Bass	10" Paper Cone (x2)	SEAS 25 TV-EW (15Ω)
Crossover Frequency	1kHz	
Enclosure Type	Aperiodic (Internal)	
Finish	Walnut	
MSRP (1970)	\$179.95	

A-50

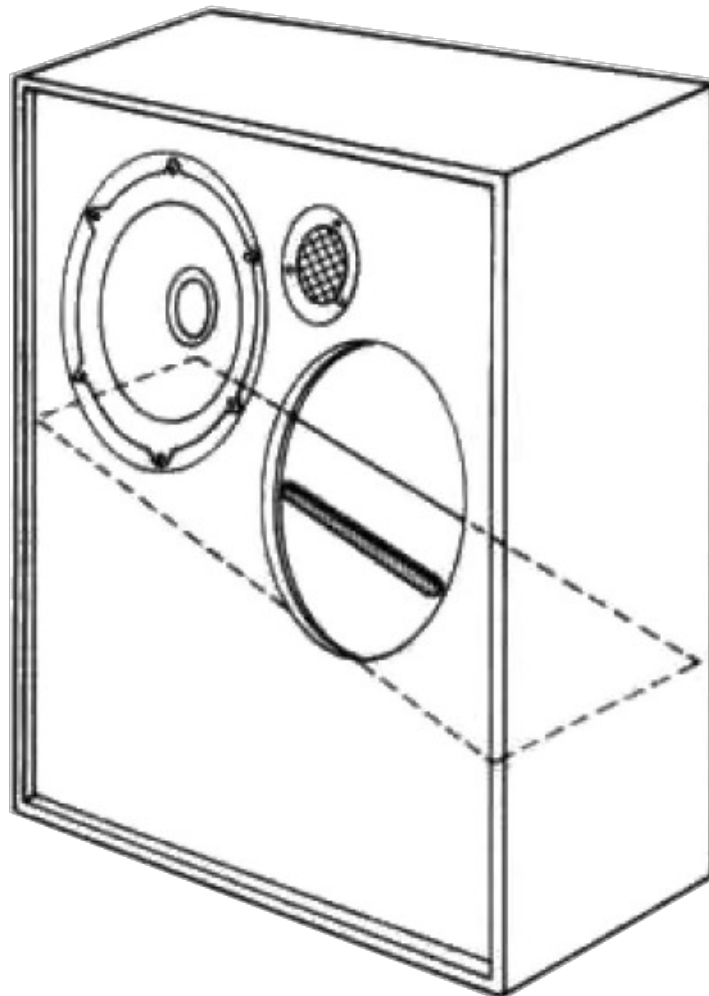
(Early Production)

Very early in production, the baffle arrangement was altered.



A-50 (Early Production)

Years Produced	1971	
Dimensions (HxWxD)	28"x21.5"x10"	
Weight (Shipped)	47lbs (21.4kg)	
Frequency Response	25Hz-20kHz	
Sensitivity (DIN, 96dB/m)	4.5W	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>25W	
Power Handling (Nominal)	50W	
Power Handling (Peak)	75W	
Treble	1.5" Textile Dome	Scan-Speak D3806 (509027)
Midrange/Bass	10" Paper Cone (x2)	SEAS 25 TV-EW (15Ω)
Crossover Frequency	1kHz	
Enclosure Type	Aperiodic (Internal)	
Finish	Walnut	
MSRP (1971)	\$179.95	





In the Wild...



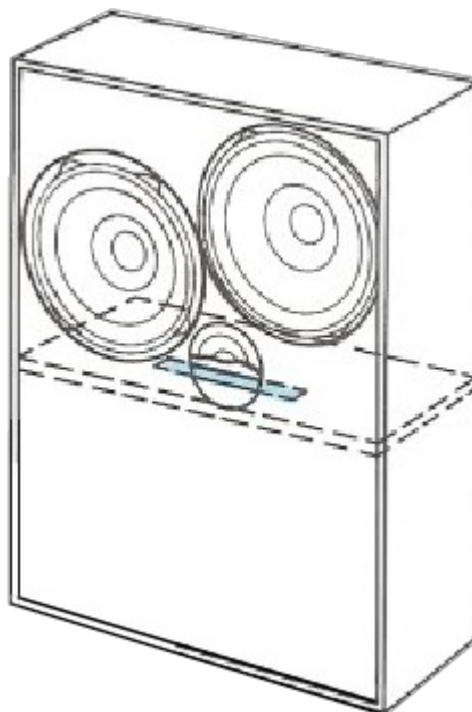
A-50

(Revised Baffle, Scan-Speak Woofers)

Revisions to baffle and internal layout to simplify construction. Change to Scan-Speak woofers.



Years Produced	1971	
Dimensions (HxWxD)	28"x21.5"x10"	
Weight (Shipped)	47lbs (21.4kg)	
Frequency Response	25Hz-20kHz	
Sensitivity (DIN, 96dB/m)	4.5W	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>25W	
Power Handling (Nominal)	50W	
Power Handling (Peak)	75W	
Treble	1.5" Textile Dome	Scan-Speak D3806 (509027)
Midrange/Bass	10" Paper Cone (x2)	Scan-Speak
Crossover Frequency	1kHz	
Enclosure Type	Aperiodic (Internal)	
Finish	Walnut	
MSRP (1971)	\$179.95	



A-50

(SEAS Woofer)

Return to SEAS woofers.



Years Produced	1971-1972	
Dimensions (HxWxD)	28"x21.5"x10"	
Weight (Shipped)	47lbs (21.4kg)	
Frequency Response	25Hz-20kHz	
Sensitivity (DIN, 96dB/m)	4.5W	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>25W	
Power Handling (Nominal)	50W	
Power Handling (Peak)	75W	
Treble	1.5" Textile Dome	Scan-Speak D3806
Midrange/Bass	10" Paper Cone (x2)	SEAS 25 TV-EW (15Ω)
Crossover Frequency	1kHz	
Enclosure Type	Aperiodic (Internal)	
Finish	Walnut	
MSRP (1971)	\$179.95	

A-50

(SEAS Tweeter)

Change to SEAS tweeter.



Years Produced	1972	
Dimensions (HxWxD)	28"x21.5"x10"	
Weight (Shipped)	47lbs (21.4kg)	
Frequency Response	35Hz-17kHz ±5dB	
Sensitivity	90dB/W/m	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	30-100W	
Power Handling (Nominal, DIN 45.500)	50W	
Power Handling (Peak)	75W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone (x2)	?Scan-Speak?
Crossover Frequency	1kHz	
Enclosure Type	Aperiodic (Internal)	
Finish	Walnut	
MSRP (1972)	\$179.95	

A-50

(Mid Production, Return to Original Baffle)

Return to original baffle layout.



Years Produced	197?-1974	
Dimensions (HxWxD)	28"x21.5"x10"	
Weight (Shipped)	47lbs (21.4kg)	
Frequency Response	25Hz-20kHz	
Sensitivity	90dB/W/m	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	30-100W	
Power Handling (Nominal, DIN 45.500)	50W	
Power Handling (Peak)	75W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone (x2)	SEAS 25 TV-EW (15Ω)
Crossover Frequency	1kHz	
Enclosure Type	Aperiodic (Internal)	
Finish	Walnut	
MSRP (1975)	\$189	

In the Wild...



A-50

(Late Production)

Woofers updated to SEAS 25 TV-EW SP, the 25 TV-EW with the improved baskets of the 25 F-EW.



Years Produced	1974-1977	
Dimensions (HxWxD)	28"x21.5"x10"	
Weight (Shipped)	47lbs (21.4kg)	
Frequency Response	25Hz-20kHz	
Sensitivity	90dB/W/m	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>25W	
Power Handling (Nominal, DIN 45.500)	50W	
Power Handling (Peak)	75W	
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone (x2)	SEAS 25 TV-EW SP (15Ω)
Crossover Frequency	1kHz	
Enclosure Type	Aperiodic (Internal)	
Finish	Walnut	
MSRP (1977)	\$249	
Dealer Cost (1976)	\$166	

A-50

(Options)

Model introduced in Panor's Options line.



Years Produced	1990-1993	
Dimensions (HxWxD)	43"x12"x12"	
Weight	50lbs	
Frequency Response	32Hz-20kHz \pm 3dB	
Sensitivity	94dB/W/m	
Impedance (Nominal)	8 Ω	
Power Handling (Nominal)	250W	
Treble	2.5" Paper Cone	
Midrange	4" Cone	
Bass	10" Cone	
Crossover Frequencies	3.2kHz, 8.3kHz	
Enclosure Type	Bass Reflex	
Finish	Black Oak Vinyl, Medium Oak Vinyl	
MSRP (1990)	\$225	

A-100

Years Produced	1978	
Dimensions (HxWxD)		
Weight	65lbs	
Frequency Response	20Hz-30kHz \pm 3dB	
Sensitivity	94dB/W/m	
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power	>12W	
Treble	1" Soft Dome	
Midrange	5" Cone	
Bass	8" Cone	
Passive Radiator	10"	
Crossover Frequencies	1kHz, 4.5kHz	
Enclosure Type	Passive Radiator	
Finish	Walnut	
MSRP (1978)	\$249	

A-100

Not to be confused with the floorstanding A-100 very briefly released two years earlier, the A-100 bookshelf was ESS's smallest offering during their brief ownership of the Dynaco brand.



Years Produced	1980	
Dimensions (HxWxD)	12"x8"x6"	
Weight		
Frequency Response	55Hz-30kHz \pm 3dB	
Sensitivity	87dB/W/m	
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power	>15W	
Treble	1" Soft Dome	
Midrange/Bass	6" Cone	
Passive Radiator	6" Cone	
Crossover Frequency	2kHz	
Enclosure Type	Bass Reflex	
Finish	Walnut Vinyl, Black Vinyl	
MSRP (1980)	\$179	

In the Wild...



A-150

ESS built model after buying out the Dynaco name. Renamed and mildly revised version of the Model 150.



Years Produced	1979	
Dimensions (HxWxD)	22"x12.25"x12.75"	
Weight	36lbs	
Frequency Response	50Hz-20kHz ±3dB	
Sensitivity	89dB/W/m	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>15W	
Power Handling (Nominal)	65W	
Treble	1" Soft Dome	
Midrange/Bass	10" Paper Cone	
Crossover Frequency	2kHz	
Enclosure Type	Sealed	
Finish	Walnut Vinyl	
MSRP (1980)	\$150	



In the Wild...



A-250

ESS built model after buying out the Dynaco name. Renamed and mildly revised version of the Model 250. Most "A-250" examples on the market are misidentified A-30XL. The A-250 is differentiated by the non-SEAS tweeter, smaller midrange and round rather than rectangular input recess.



Years Produced	1979	
Dimensions (HxWxD)	25"x14.25"x14.25"	
Weight	39lbs	
Frequency Response	45Hz-20kHz \pm 3dB	
Sensitivity	89dB/W/m	
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power	>15W	
Power Handling (Nominal)	110W	
Treble	1" Soft Dome	Polydax HD100D25
Midrange	3" Paper Cone	
Bass	10" Paper Cone	
Crossover Frequencies	300Hz, 3.5kHz	
Enclosure Type	Sealed	
Finish	Walnut	
MSRP (1980)	\$250	

A-350

ESS built model after buying out the Dynaco name. Revised and renamed version of the Model 350. Recognizable for narrower midrange housing and different bass. Model notable for piezoelectric supertweeter mounted to reflect off a plastic cone deflector for omnidirectional dispersion.



Years Produced	1980	
Dimensions (HxWxD)	43"x14"x14.5"	
Weight	68lbs	
Frequency Response	35Hz-25kHz \pm 3dB	
Sensitivity	89dB/W/m	
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power	>15W	
Power Handling (Nominal)	110W	
Supertweeter	Omni-Dyn Omnidirectional Piezoelectric	
Treble	0.8" Soft Dome	
Midrange	3" Cone	
Bass	10" Paper Cone	
Passive Radiator	10" Paper Cone	
Crossover Frequencies	500Hz, 3.5kHz, 11.3kHz	
Enclosure Type	Passive Radiator	
Finish	Walnut	
MSRP (1980)	\$350	



In the Wild...



Amazing Bass

(Options)

Subwoofer introduced with Panor's Options line intended for use with the A10 model.



Years Produced	1990-1993	
Dimensions (HxWxD)	8.3"x16.4"x13"	
Weight	15lbs	
Frequency Response	20Hz-150Hz ±3dB	
Sensitivity	90dB/W/m	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	100W	
Bass	8" Cone	
Crossover Frequency	150Hz	
Enclosure Type	Bass Reflex	
Finish	Black Matte	
MSRP (1990)	\$100	



Amazing Bass II

(Options)

Revision of the Amazing Bass subwoofer of Panor's Options line intended for use with the A10 Type II model.

Years Produced	1993	
Dimensions (HxWxD)	9"x16"x13"	
Weight	12lbs	
Frequency Response	30Hz-100Hz ±3dB	
Sensitivity	90dB/W/m	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>10W	
Power Handling (Nominal)	100W	
Bass	8" Cone	
Crossover Frequency	100Hz	
Enclosure Type	Bass Reflex	
Finish	Black Matte	
MSRP (1993)	\$180	

AW-1

Small indoor/outdoor satellite with aluminum enclosure.



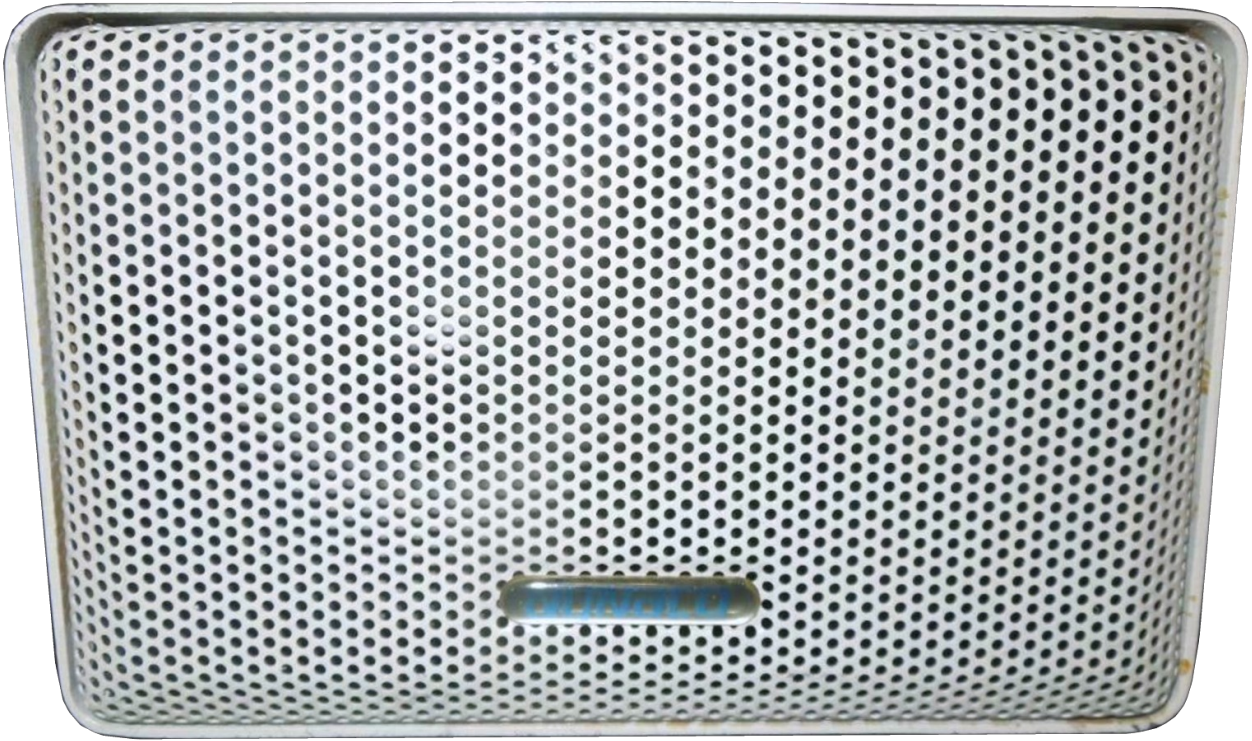
Years Produced	1993-1995	
Dimensions (HxWxD)	8"x5"x5"	
Weight	4lbs	
Frequency Response	90Hz-20kHz \pm 3dB	
Sensitivity	89dB/W/m	
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power	>15W	
Power Handling (Nominal)		
Treble	0.75" Hard Dome	
Midrange/Bass	4" Polypropylene Cone	
Crossover Frequencies	2kHz	
Enclosure Type	Sealed	
Finish	Black	
MSRP (1993)	\$100/pr	

In the Wild...



AW-1W

White version of the AW-1.



Years Produced	1993-1995	
Dimensions (HxWxD)	8"x5"x5"	
Weight	4lbs	
Frequency Response	90Hz-20kHz \pm 3dB	
Sensitivity	89dB/W/m	
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power	>15W	
Power Handling (Nominal)		
Treble	0.75" Hard Dome	
Midrange/Bass	4" Polypropylene Cone	
Crossover Frequencies	2kHz	
Enclosure Type	Sealed	
Finish	White	
MSRP (1993)	\$100/pr	

In the Wild...



D-20XL



Years Produced	1976-1978	
Dimensions (HxWxD)	10.5"x18"x8.5"	
Weight	17lbs	
Frequency Response	40Hz-18kHz ±3dB	
Sensitivity	94dB/W/m	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>12W	
Power Handling (Nominal, DIN 45.500)		
Power Handling (Peak)		
Treble	2" Paper Cone	United Speaker Systems T-309
Midrange/Bass	8" Paper Cone	United Speaker Systems W-537
Crossover Frequency	2kHz	
Enclosure Type	Bass Reflex	
Finish	Walnut Vinyl	
MSRP (1977)	\$74	
Dealer Cost (1976)	\$49.33	

In the Wild...



FL-525

(Options)

Flush mount in-wall model.

Years Produced	1990	
Dimensions (HxWxD)		
Weight		
Frequency Response	68Hz-20kHz	
Sensitivity	90dB/W/m	
Impedance (Nominal)	4Ω	
Recommended Amplifier Power	5-50W	
Power Handling (Nominal)	70W	
Treble	1" Soft Dome	
Midrange/Bass	5.25" Polypropylene Cone	
Crossover Frequencies	3kHz	
Enclosure Type	Open Baffle	
Finish	White	
MSRP (1992)	\$250/pr	

FL-650

(Options)

Flush mount in-wall model.



Years Produced	1992-1997	
Dimensions (HxWxD)		
Weight		
Frequency Response	58Hz-20kHz	
Sensitivity	89dB/W/m	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	5-60W	
Power Handling (Nominal)	100W	
Treble	1" Soft Dome	
Midrange/Bass	6.5" Polypropylene Cone	
Crossover Frequencies	3kHz	
Enclosure Type	Open Baffle	
Finish	White	
MSRP (1992)	\$300/pr	

HLX-9

Subwoofer intended for use with HLX-18 HiLux series satellites. Becomes the HLX-36 satellite/subwoofer system when paired with the HLX-18 satellites.



Years Produced	1995	
Dimensions (HxWxD)		
Weight		
Frequency Response		
Sensitivity		
Impedance (Nominal)		
Power Handling (Nominal)		
Bass	4" Fiber Cone	
Crossover Frequency		
Enclosure Type		
Finish	Black Lacquer	
MSRP (1995)	\$180	

In the Wild...



HLX-18

Primary model of the Dynaco HiLux Series. Becomes the HLX-36 satellite/subwoofer system when paired with the HLX-9 subwoofer.



Years Produced	1995	
Dimensions (HxWxD)		
Weight		
Frequency Response	50Hz-21Hz \pm 3dB	
Sensitivity	90dB/W/m	
Impedance (Nominal)	4 Ω	
Power Handling (Nominal)	60W	
Treble	0.75" Gold-Tipped Mylar Dome	
Midrange/Bass	4" Fiber Cone	
Crossover Frequency	3kHz	
Enclosure Type	Bass Reflex	
Finish	Black Lacquer	
MSRP (1995)	\$260/pr	

In the Wild...



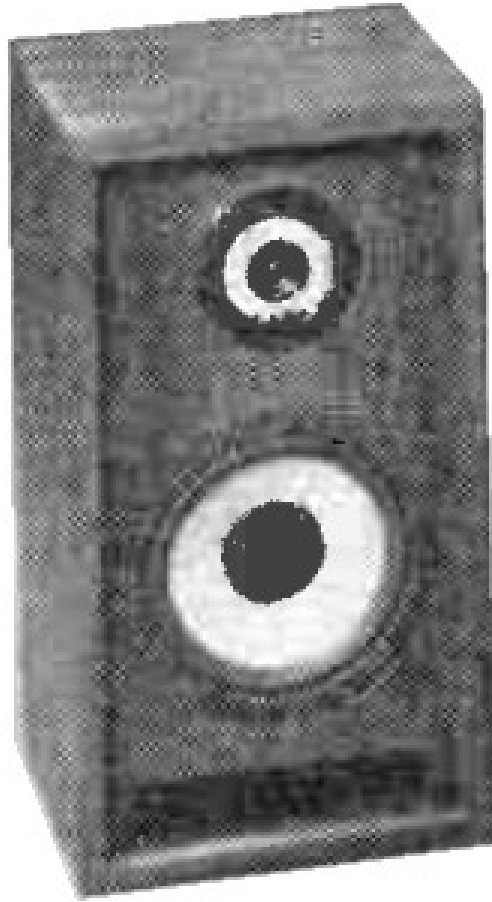
HLX-18V

Video shielded version of the HLX-18 intended for use as a center channel for the HLX-36.

Years Produced	1995	
Dimensions (HxWxD)		
Weight		
Frequency Response	50Hz-21Hz \pm 3dB	
Sensitivity	90dB/W/m	
Impedance (Nominal)	4 Ω	
Power Handling (Nominal)	60W	
Treble	0.75" Gold-Tipped Mylar Dome	
Midrange	4" Fiber Cone	
Crossover Frequencies	3kHz	
Enclosure Type	Bass Reflex	
Finish	Black Lacquer	
MSRP (1995)	\$140	

LMS-2

Smallest model of the short lived Laboratory Monitor Series (LMS), Dynaco's attempt at targeting the midtier to high end speaker market. More heavily built (1" particleboard) than previous offerings.



Years Produced	1977	
Dimensions (HxWxD)	20.5"x12"x9.5"	
Weight	25lbs	
Frequency Response	38Hz-20kHz \pm 3dB	
Sensitivity		
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power	>5W	
Treble	2" Paper Cone	
Midrange/Bass	8" Cone	
Crossover Frequency	2.9kHz	
Enclosure Type	Bass Reflex	
Finish	Walnut	
MSRP (1977)	\$129	

LMS-2

(SEAS Tweeter)

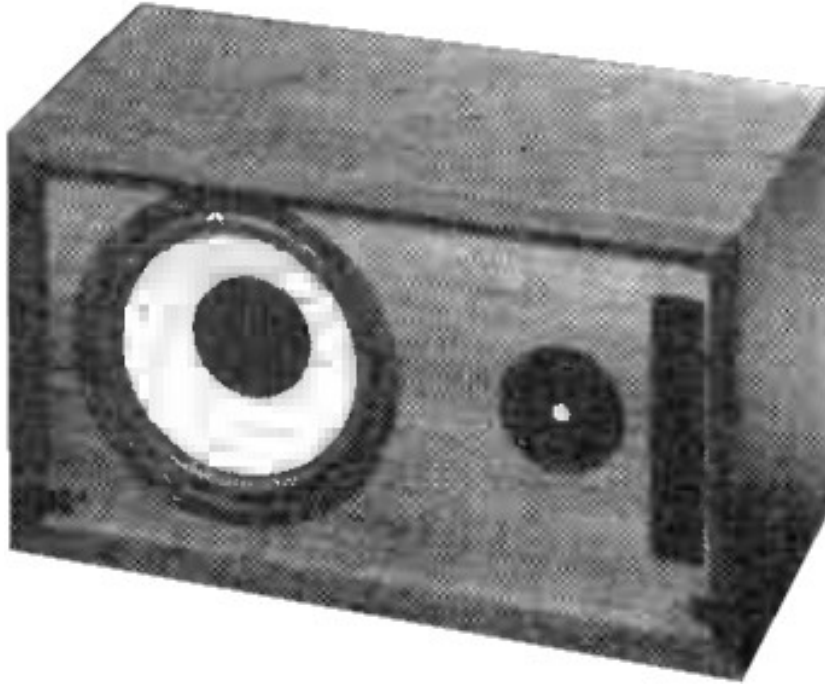
Variant of the LMS-2 with the SEAS H087 tweeter. Marked "Made in Canada".



Years Produced	197?	
Dimensions (HxWxD)	20.5"x12"x9.5"	
Weight	25lbs	
Frequency Response	38Hz-20kHz ±3dB	
Sensitivity		
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>5W	
Treble	1.5" Dome	SEAS H087
Midrange/Bass	8" Cone	SEAS
Crossover Frequency		
Enclosure Type	Bass Reflex	
Finish	Walnut	
MSRP		

LMS-3

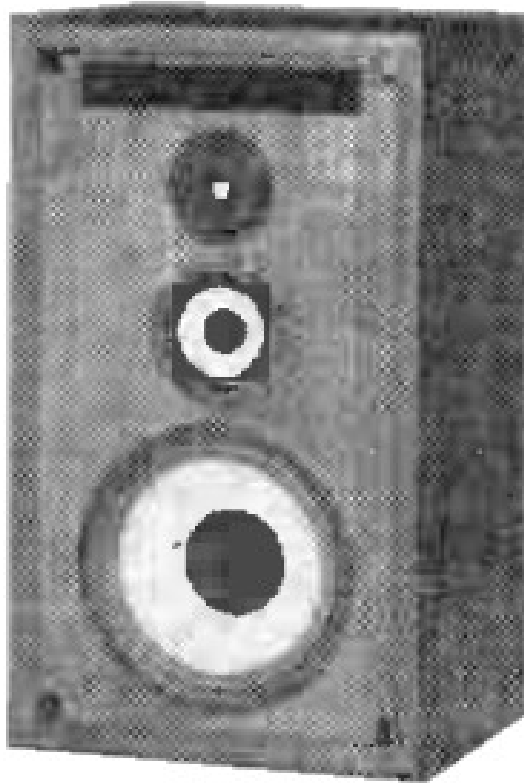
Model of the short lived Laboratory Monitor Series (LMS), Dynaco's attempt at targeting the midtier to high end speaker market. More heavily built (1" particleboard) than previous offerings.



Years Produced	1977	
Dimensions (HxWxD)	22.5"x13"x11.75"	
Weight	36lbs	
Frequency Response	35Hz-20kHz ±3dB	
Sensitivity		
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>7W	
Treble	1" Soft Dome	
Midrange/Bass	10" Cone	
Crossover Frequency	2kHz	
Enclosure Type	Bass Reflex	
Finish	Walnut	
MSRP (1977)	\$169	

LMS-5

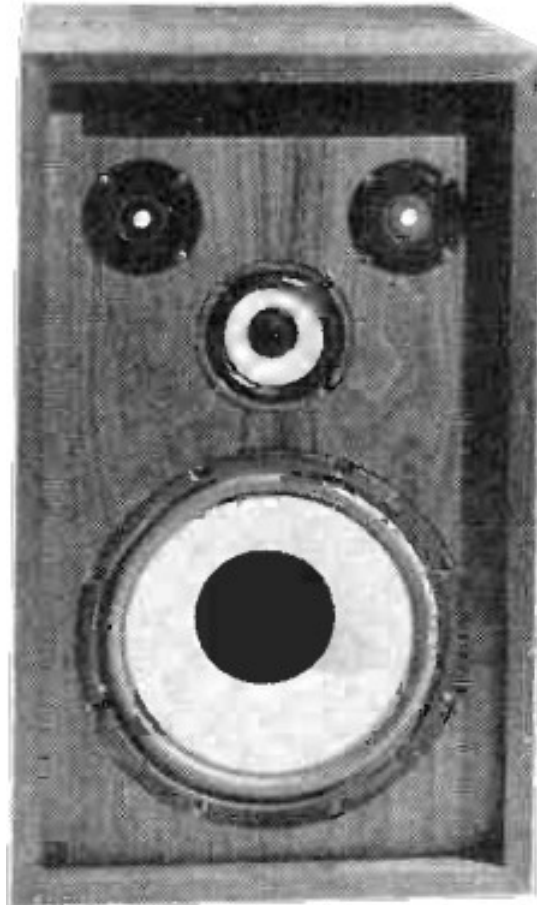
Model of the short lived Laboratory Monitor Series (LMS), Dynaco's attempt at targeting the midtier to high end speaker market. More heavily built (1" particleboard) than previous offerings.



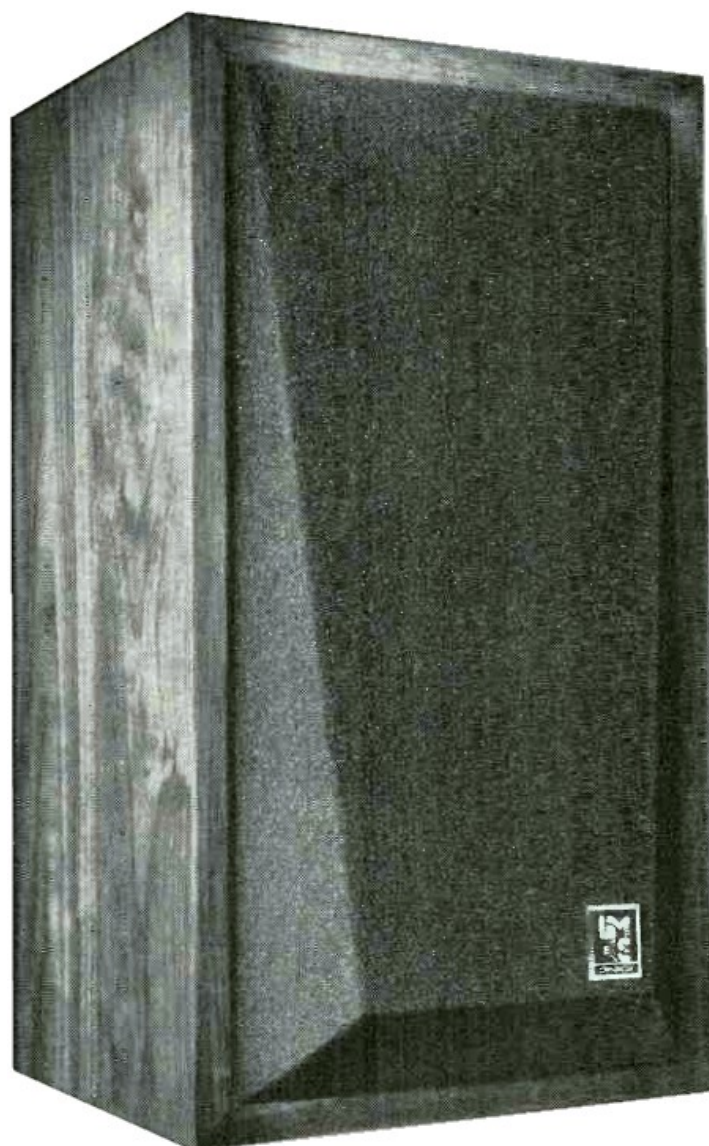
Years Produced	1977	
Dimensions (HxWxD)	25"x15"x12"	
Weight	48lbs	
Frequency Response	30Hz-20kHz ±3dB	
Sensitivity		
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>9W	
Treble	1" Soft Dome	
Midrange	5" Cone	
Bass	10" Cone	
Crossover Frequencies	900Hz, 4.5kHz	
Enclosure Type	Bass Reflex	
Finish	Walnut	
MSRP (1977)	\$219	

LMS-6

Model of the short lived Laboratory Monitor Series (LMS), Dynaco's attempt at targeting the midtier to high end speaker market. More heavily built (1" particleboard) than previous offerings.

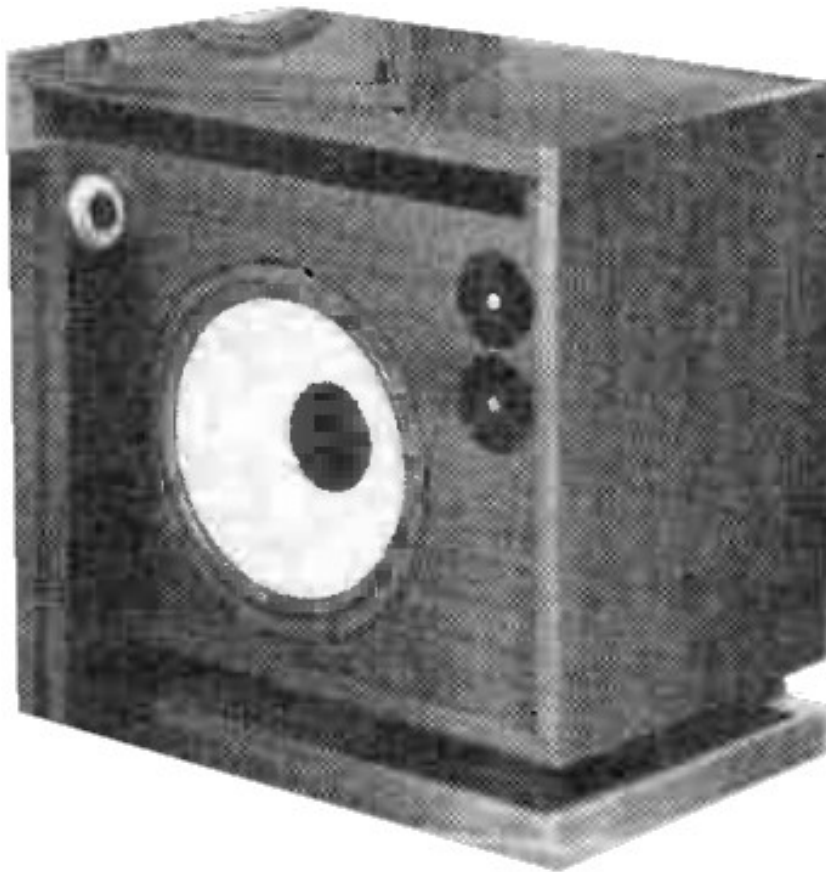


Years Produced	1977	
Dimensions (HxWxD)	27"x16"x15"	
Weight	58lbs	
Frequency Response	20Hz-20kHz \pm 3dB	
Sensitivity		
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power	>9W	
Treble	1" Soft Dome (x2)	
Midrange	5" Cone	
Bass	12" Cone	
Crossover Frequencies	900Hz, 4.5kHz	
Enclosure Type	Bass Reflex	
Finish	Walnut	
MSRP (1977)	\$299	



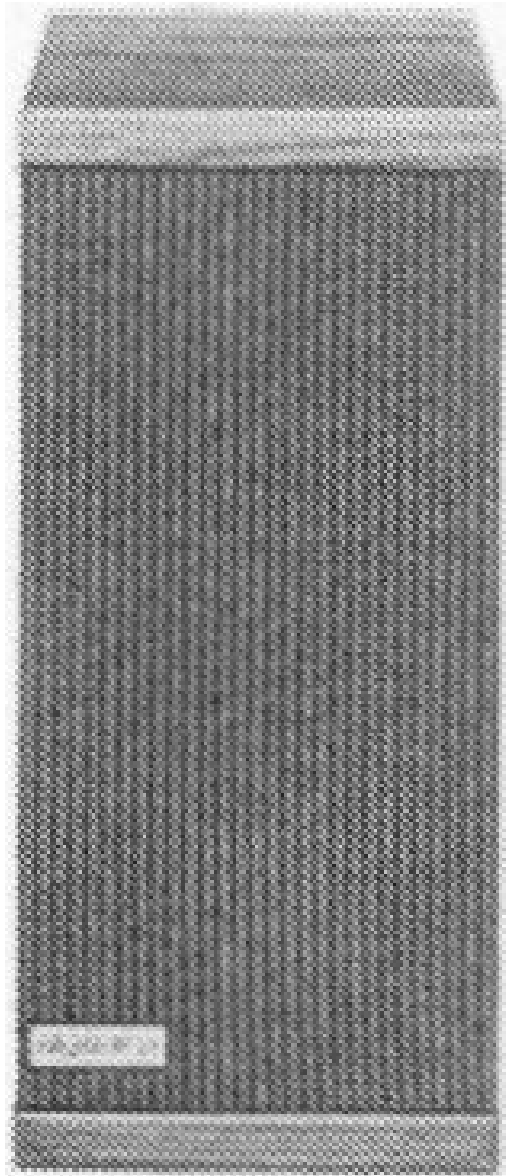
LMS-7

Model of the short lived Laboratory Monitor Series (LMS), Dynaco's attempt at targeting the midtier to high end speaker market. More heavily built (1" particleboard) than previous offerings.



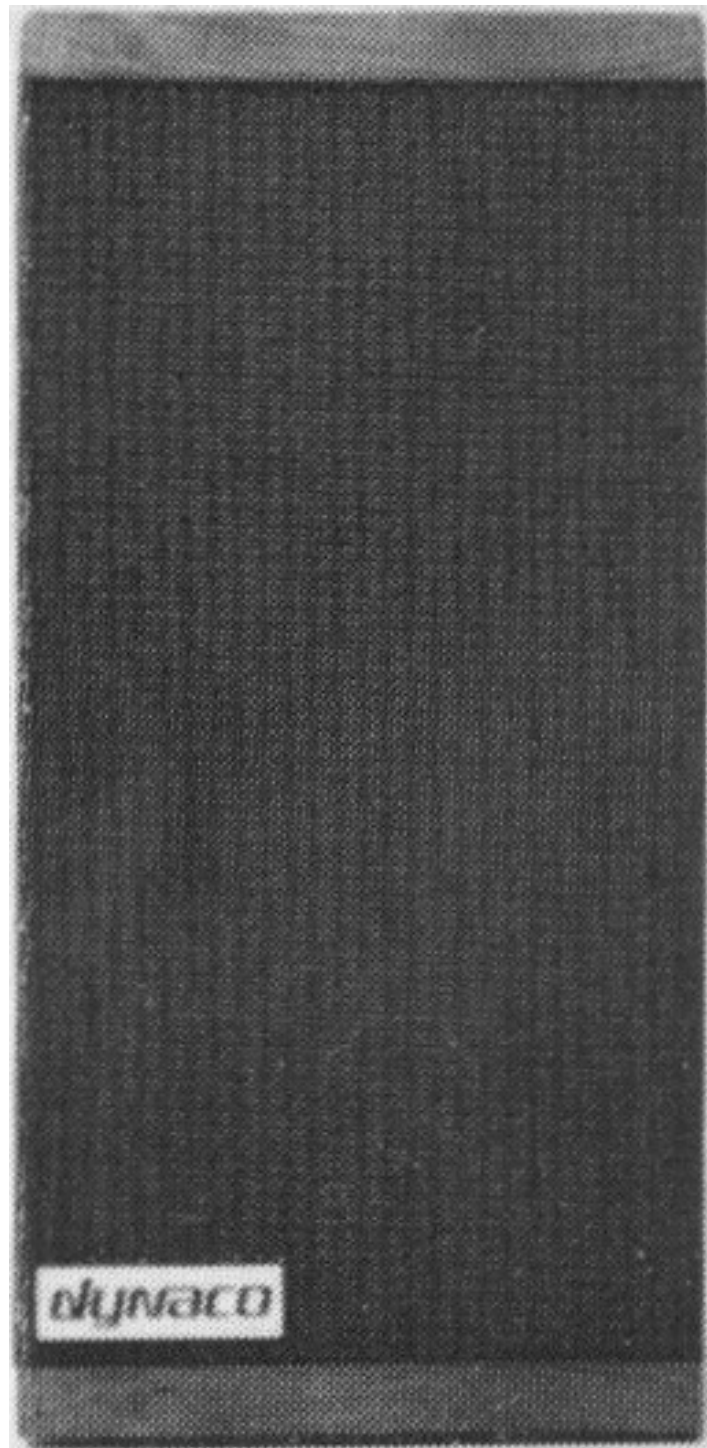
Years Produced	1977	
Dimensions (HxWxD)	29"x27.5"x18"	
Weight	100lbs	
Frequency Response	20Hz-20kHz ±3dB	
Sensitivity		
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>10W	
Treble	1" Soft Dome (x2)	
Midrange	5" Cone	
Bass	15" Cone	
Crossover Frequencies	900Hz, 4.5kHz	
Enclosure Type	Bass Reflex	
Finish	Walnut	
MSRP (1977)	\$499	

M-2



Years Produced	1968	
Dimensions (HxWxD)	9.6"x4.33"x8.27" (24.4cmx11cmx21cm)	
Frequency Response	70Hz-20kHz	
Sensitivity (DIN, 96dB/m)	3.2W	
Impedance (Nominal)	4Ω	
Power Handling (Nominal)	12W	
Power Handling (Peak)	20W	
Bass	4"x6" Paper Cone	SEAS
Enclosure Type	Acoustic Suspension	

M-4



Years Produced	1968-1977	
Dimensions (HxWxD)	11.8"x5.5"x7.1" (30cmx14cmx18cm)	
Frequency Response	45Hz-20kHz	
Sensitivity (DIN, 96dB/m)	8.3W	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>15W	
Power Handling (Nominal)	20W	
Power Handling (Peak)	30W	
Treble	2" Paper Cone	Peerless
Midrange/Bass	5" Paper Cone	Philips
Enclosure Type	Acoustic Suspension	
Enclosure Resonance	45Hz	
Dispersion (10kHz)	90°	



In the Wild...



M-10

(Early Production)

Model unique to the German market.



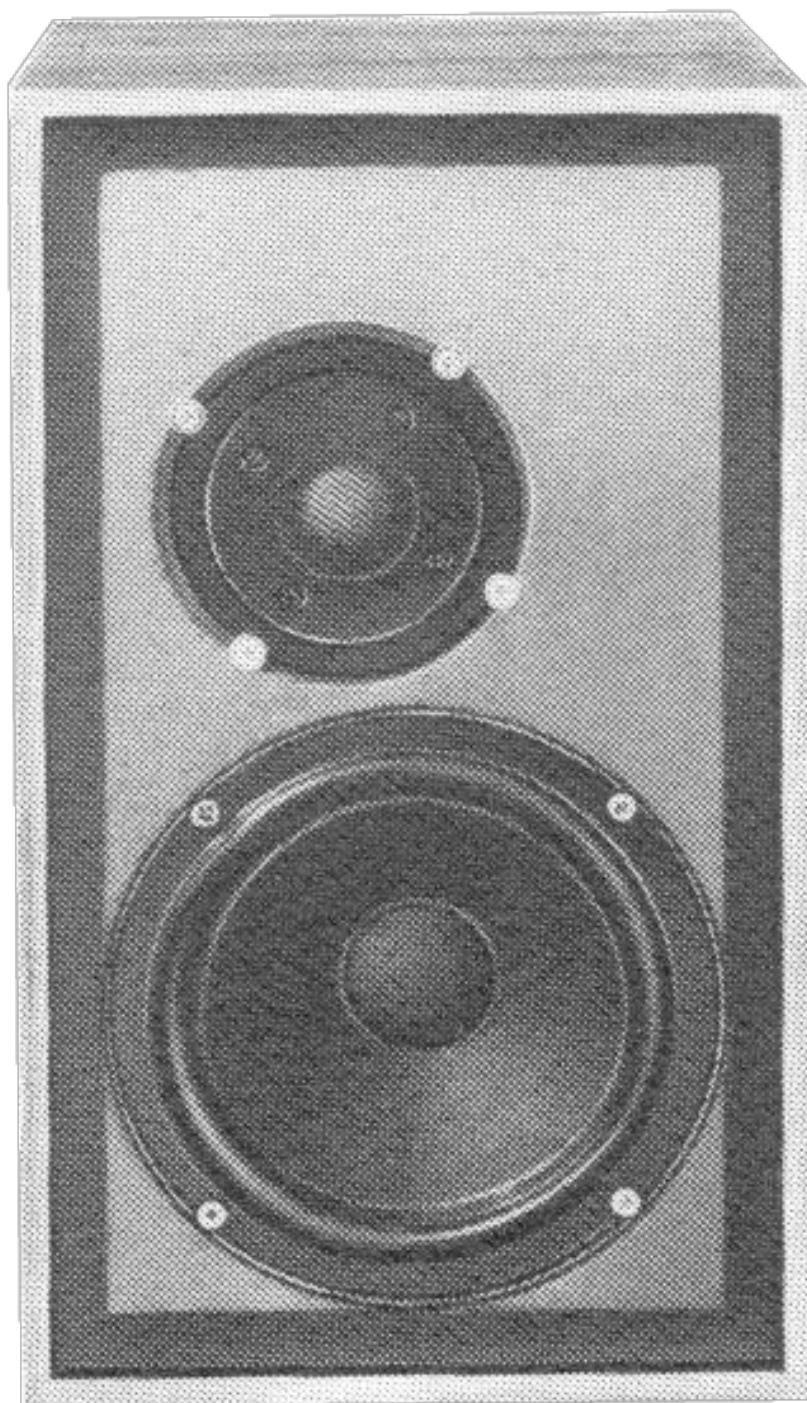
Years Produced	1969	
Dimensions (HxWxD)	14.17"x8.27"x8.66" (36cmx21cmx22cm)	
Frequency Response	45Hz-20kHz	
Sensitivity (DIN, 96dB/m)	3.2W	
Impedance (Nominal)	4Ω	
Recommended Amplifier Power	>15W	
Power Handling (Nominal)	15W	
Power Handling (Peak)	30W	
Treble	??	
Midrange/Bass	6.5" Paper Cone	
Enclosure Type	Acoustic Suspension	

In the Wild...



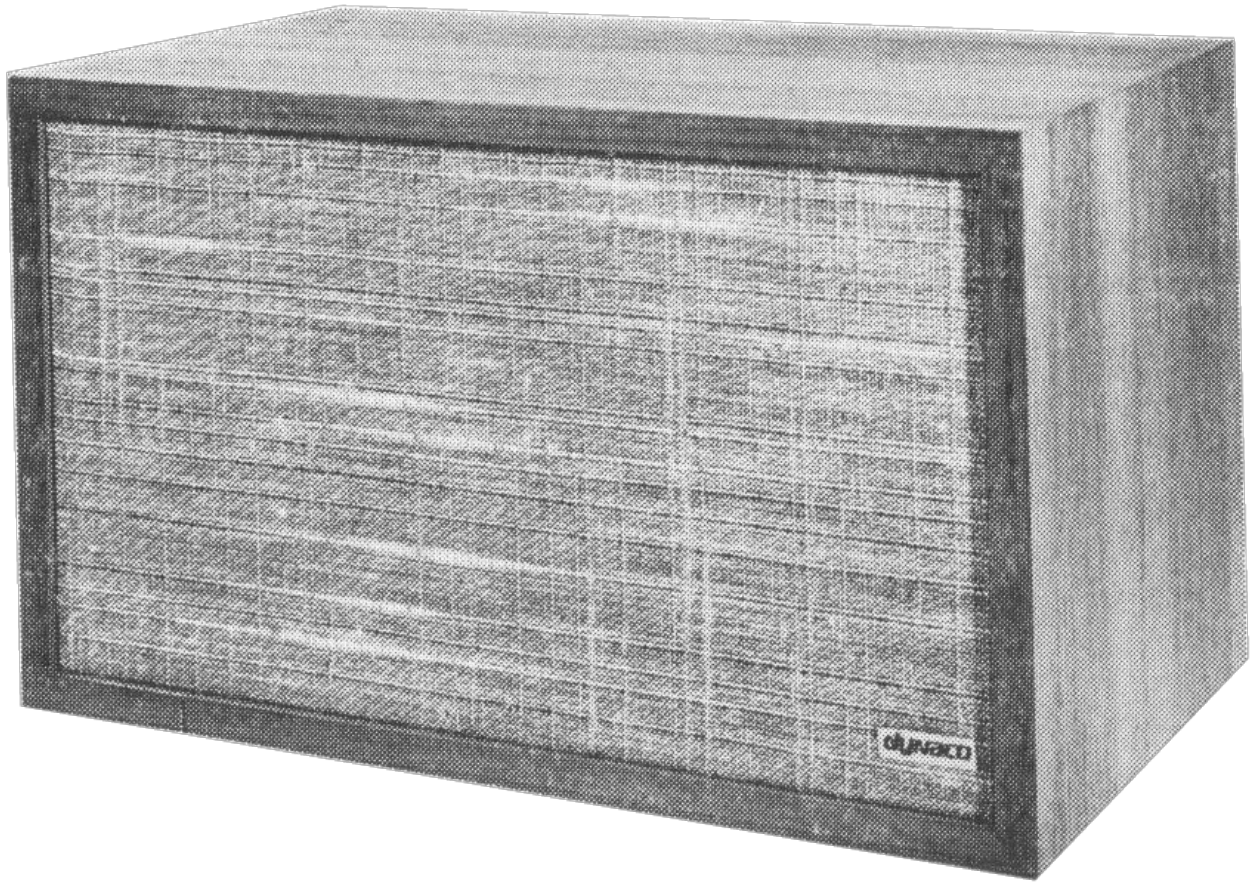
M-10

(Late Production)



Years Produced	1970	
Dimensions (HxWxD)	14.17"x8.27"x8.66" (36cmx21cmx22cm)	
Frequency Response	45Hz-20kHz	
Sensitivity (DIN, 96dB/m)	3.2W	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>15W	
Power Handling (Nominal)	20W	
Power Handling (Peak)	30W	
Treble	1" Polycarbonate Dome	Philips AD 0160/T8
Midrange/Bass	6.5" Paper Cone	
Enclosure Type	Acoustic Suspension	

M-10x

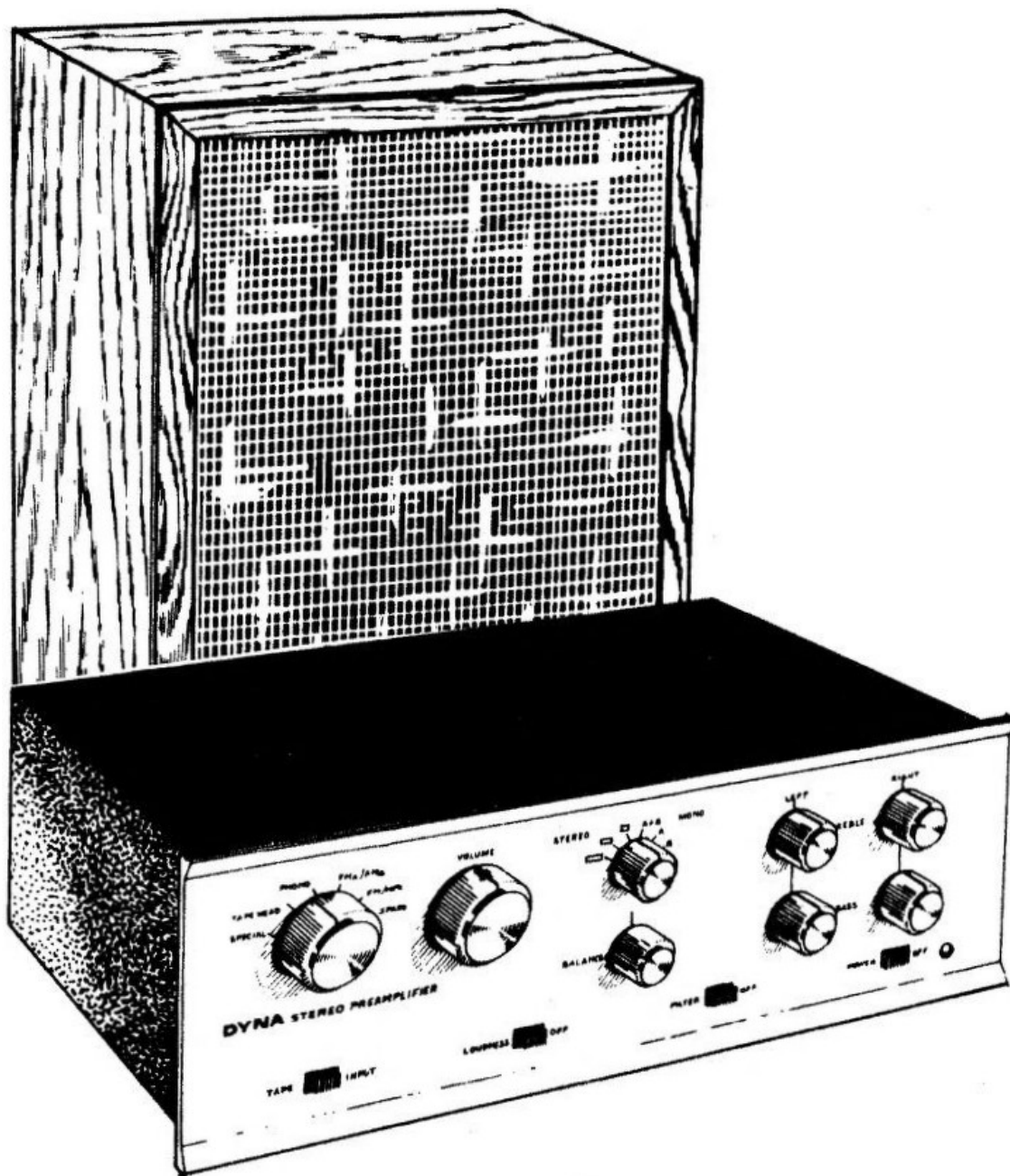


Years Produced	1968	
Dimensions (HxWxD)	14.17"x8.27"x8.66" (36cmx21cmx22cm)	
Weight	5kg	
Frequency Response	45Hz-20kHz	
Sensitivity (DIN, 96dB/m)	8.3W	
Impedance (Nominal)	4Ω or 8Ω	
Recommended Amplifier Power	>15W	
Power Handling (Nominal)	20W	
Power Handling (Peak)	30W	
Treble	2" Paper Cone	
Midrange	5" Paper Cone	
Bass	6.5" Paper Cone	
Enclosure Type	Acoustic Suspension	
Enclosure Resonance	45Hz	
MSRP (1968)	DM 294	

M-25

The A-25 was not the beginning of the Dynaco speaker story, that came with the introduction of the M-25.

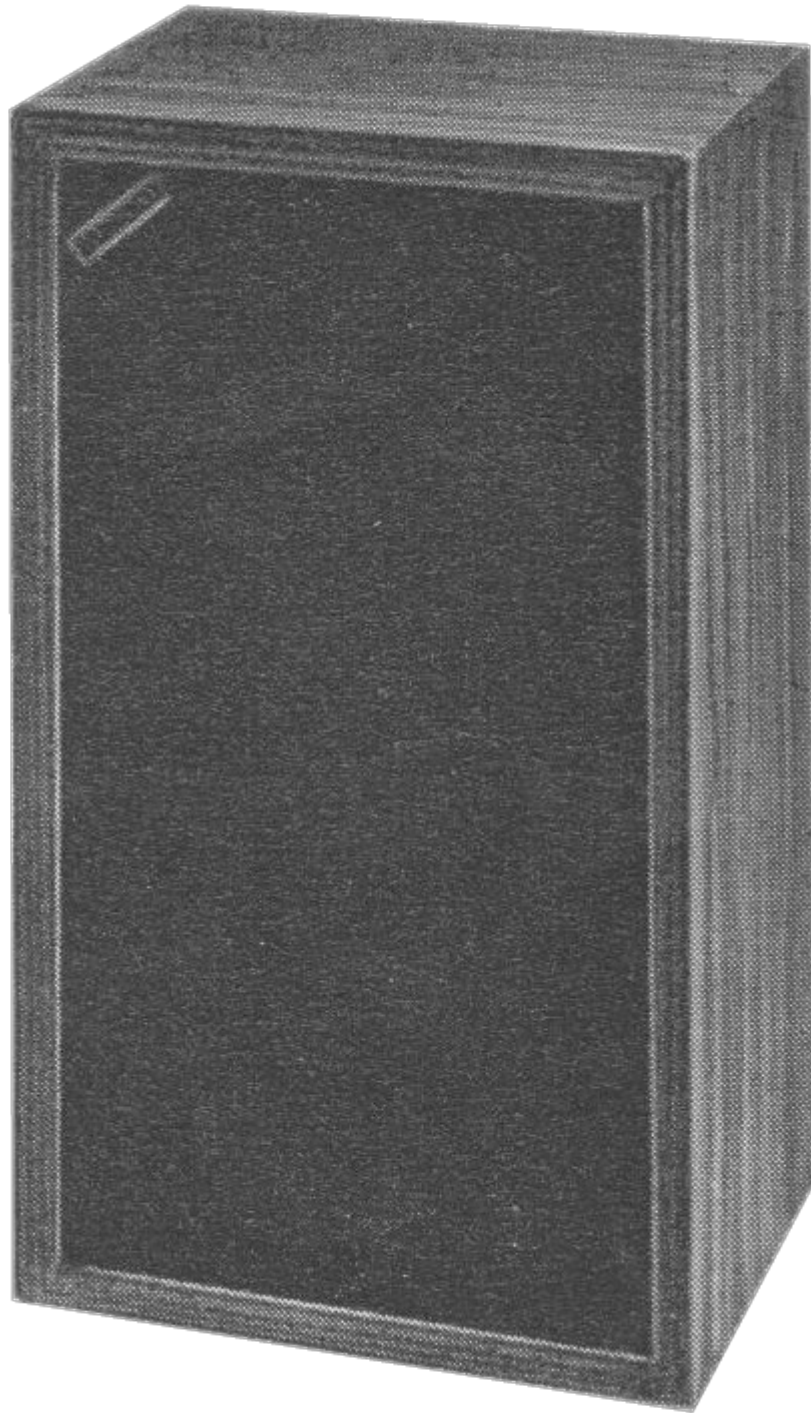
Not much is known about the M-25 other than it was a three-way acoustic suspension design and established the aesthetics that would be so recognizable with Dynaco speakers in years to come.



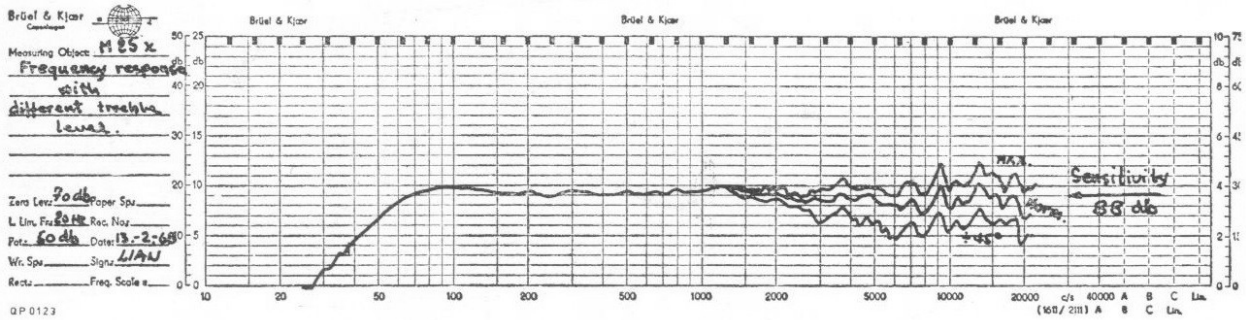
Years Produced	1967-1968
Dimensions (HxWxD)	19.7"x11"x9.84" (50cmx28cmx25cm)
Weight	20lbs (9.2kg)
Frequency Response	50Hz-20kHz
Impedance	8Ω
Power Handling (DIN 45500)	25W
Treble	2" Paper Cone
Midrange	3.5" Paper Cone
Bass	10" Paper Cone
Enclosure Type	Acoustic Suspension
Finish	Teak, Walnut, Rosewood
MSRP (1968)	<i>f</i> 295

M-25x

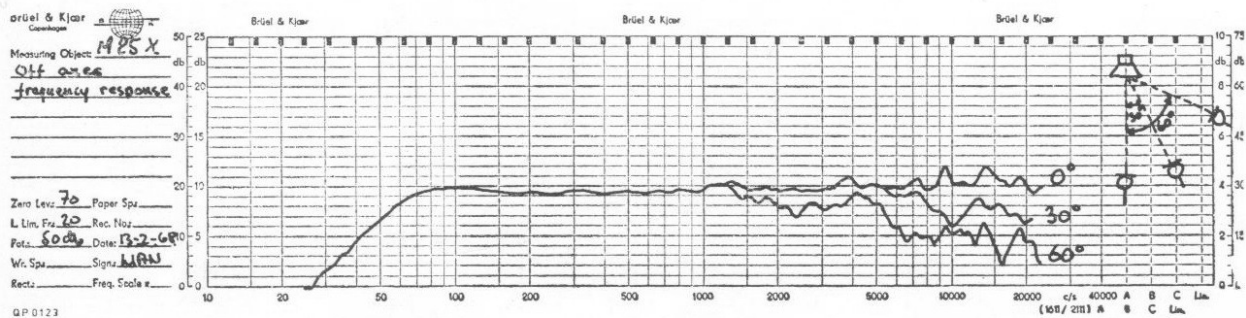
Improvement of the M-25.



Years Produced	1968-1970
Dimensions (HxWxD)	19.7"x11"x9.84" (50cmx28cmx25cm)
Weight	9.2kg
Frequency Response	38Hz-20kHz
Sensitivity	88dB/W/m
Sensitivity (DIN, 96dB/m)	6.3W
Impedance (Nominal)	8Ω
Power Handling (Nominal)	35W
Power Handling (Peak)	60W
Treble	2" Paper Cone
Midrange	3.5" Paper Cone
Bass	10" Paper Cone
Crossover Frequencies	1.5kHz, 4.5kHz
Enclosure Type	Acoustic Suspension
Enclosure Resonance	58Hz
Finish	Teak, Black Walnut, Brazil Rosewood
MSRP (1968)	DM 342



Frequenzgang bei verschiedener Stellung des Höhenreglers



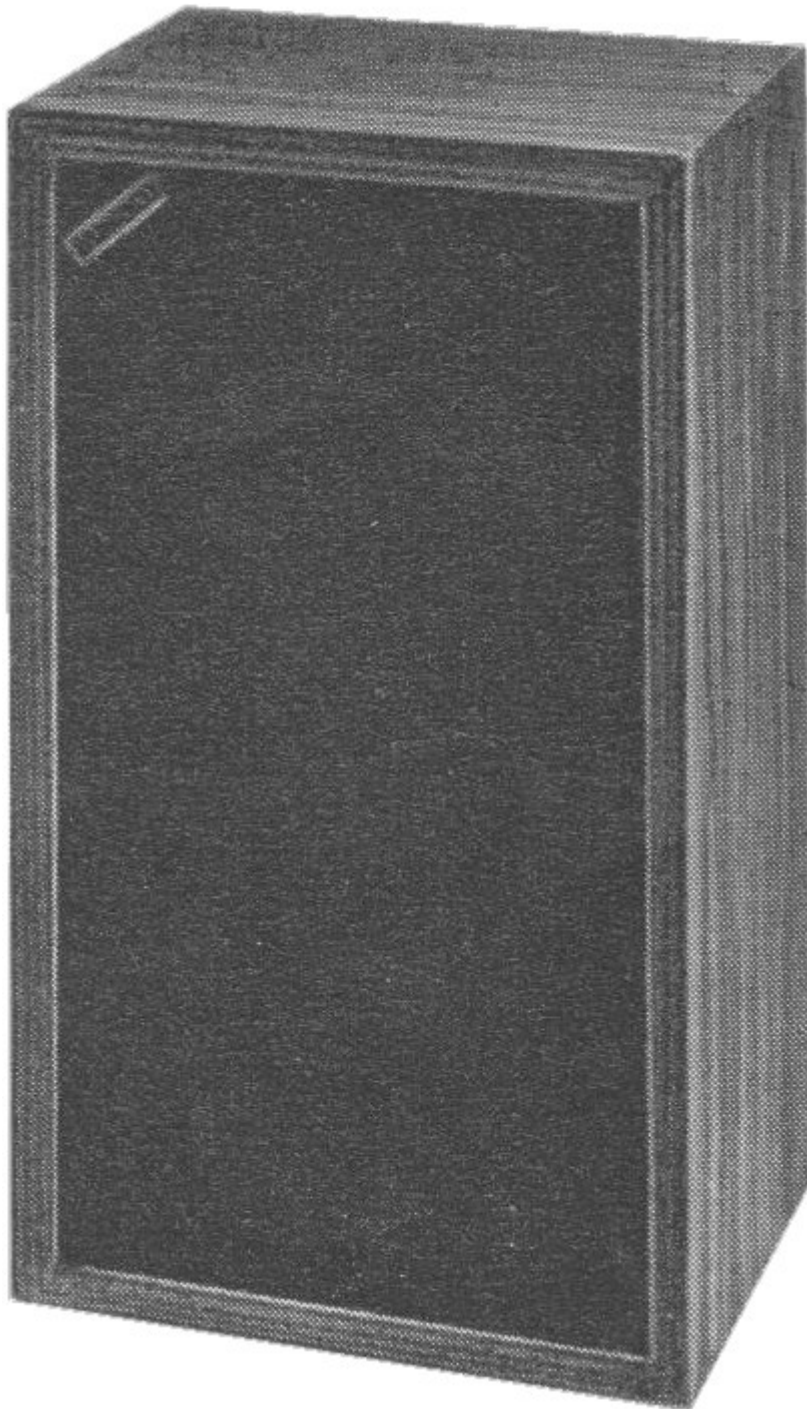
Frequenzgang bei verschiedenen Abstrahlungswinkeln

M-25x

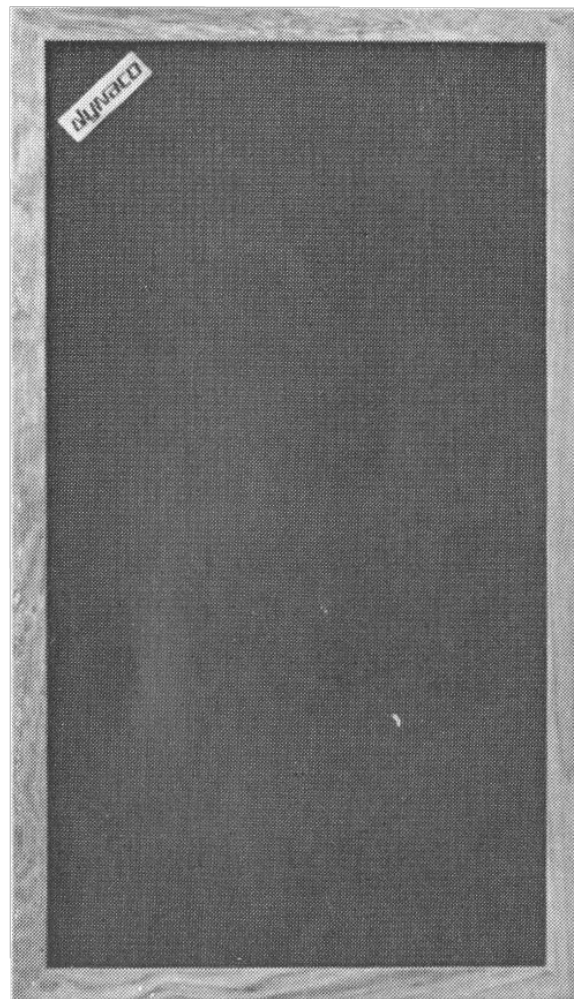
(Peerless Variant)

Revision of the M-25x that switched to all Peerless sourced drivers after the corporate schism in early 1970 that resulted in the newly renamed Scan-Dyna breaking its arrangement with SEAS. SEAS no longer being a potential OEM supplier in the shake-up led to alternatives being sought.

Reviewed in June 1970 issue of *HiFi Stereophonie*.



Years Produced	1968-1971	
Dimensions (HxWxD)	19.7"x11"x9.84" (50cmx28cmx25cm)	
Weight	9.2kg	
Frequency Response	38Hz-20kHz	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Power Handling (Nominal)	35W	
Power Handling (Peak)	60W	
Treble	2" Paper Cone	Peerless ?MT20HFC?
Midrange	3.5" Paper Cone	Peerless ?LE40HFE?
Bass	10" Paper Cone	Peerless ?L100WG?
Crossover Frequencies	1.5kHz, 4.5kHz	
Enclosure Type	Acoustic Suspension	
Enclosure Resonance	58Hz	
Finish	Teak, Black Walnut, Brazil Rosewood	
MSRP (1970)	DM 342	



In the Wild...



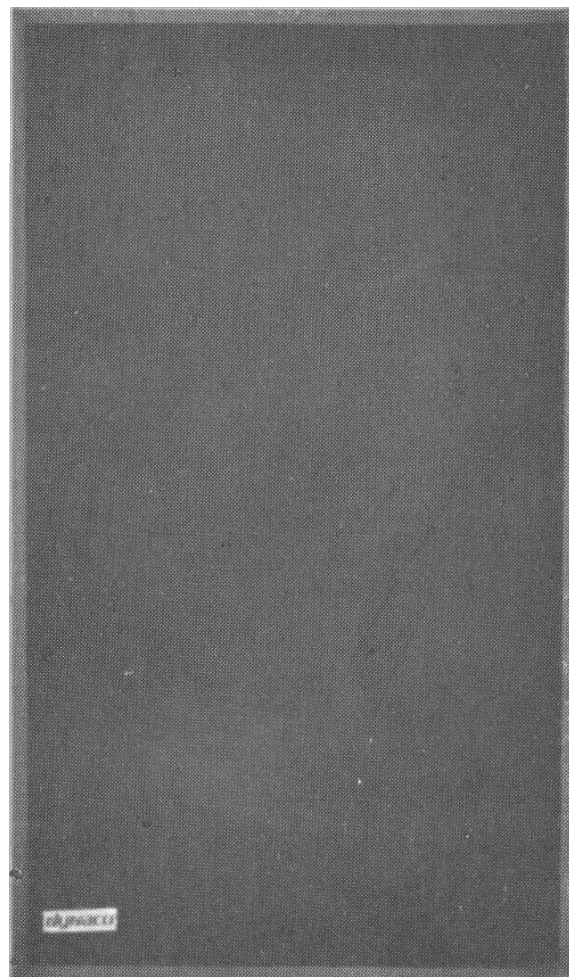
M-25x

(Scan-Speak Variant)

Version of M-25x using Scan-Speak built woofers.



Years Produced	1971	
Dimensions (HxWxD)	19.7"x11"x9.84" (50cmx28cmx25cm)	
Weight	9.2kg	
Frequency Response	38Hz-20kHz	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>20W	
Power Handling (Nominal)	35W	
Power Handling (Peak)	80W	
Treble	2" Paper Cone	Peerless ?MT20HFC?
Midrange	3.5" Paper Cone	Peerless ?LE40HFE?
Bass	10" Paper Cone	Scan-Speak 509119 S
Crossover Frequencies	1.5kHz, 4.5kHz	
Enclosure Type	Acoustic Suspension	
Enclosure Resonance	58Hz	
Dispersion (10kHz)	100°	
Finish	Teak, Black Walnut, Brazil Rosewood	

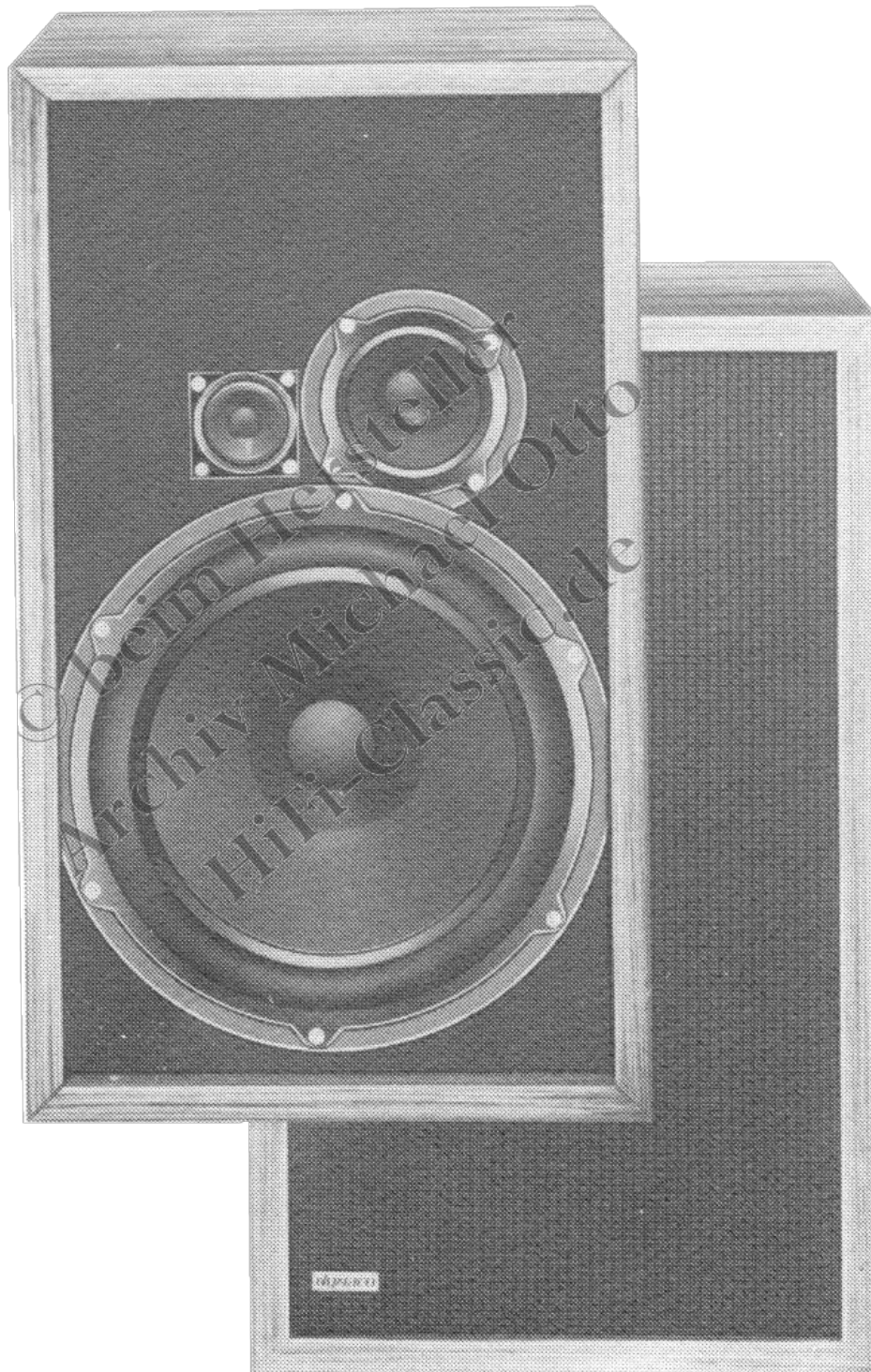


M-25x

(SEAS Variant)

Revision of the M-25x reintroducing all SEAS drivers with the return of OEM supply after SEAS' improvements to Videbæk Højtalerfabrik (Vifa) facilities allowing increased production.

Reviewed in 1971 issue of *Stereophonie Testjahrbuch*.



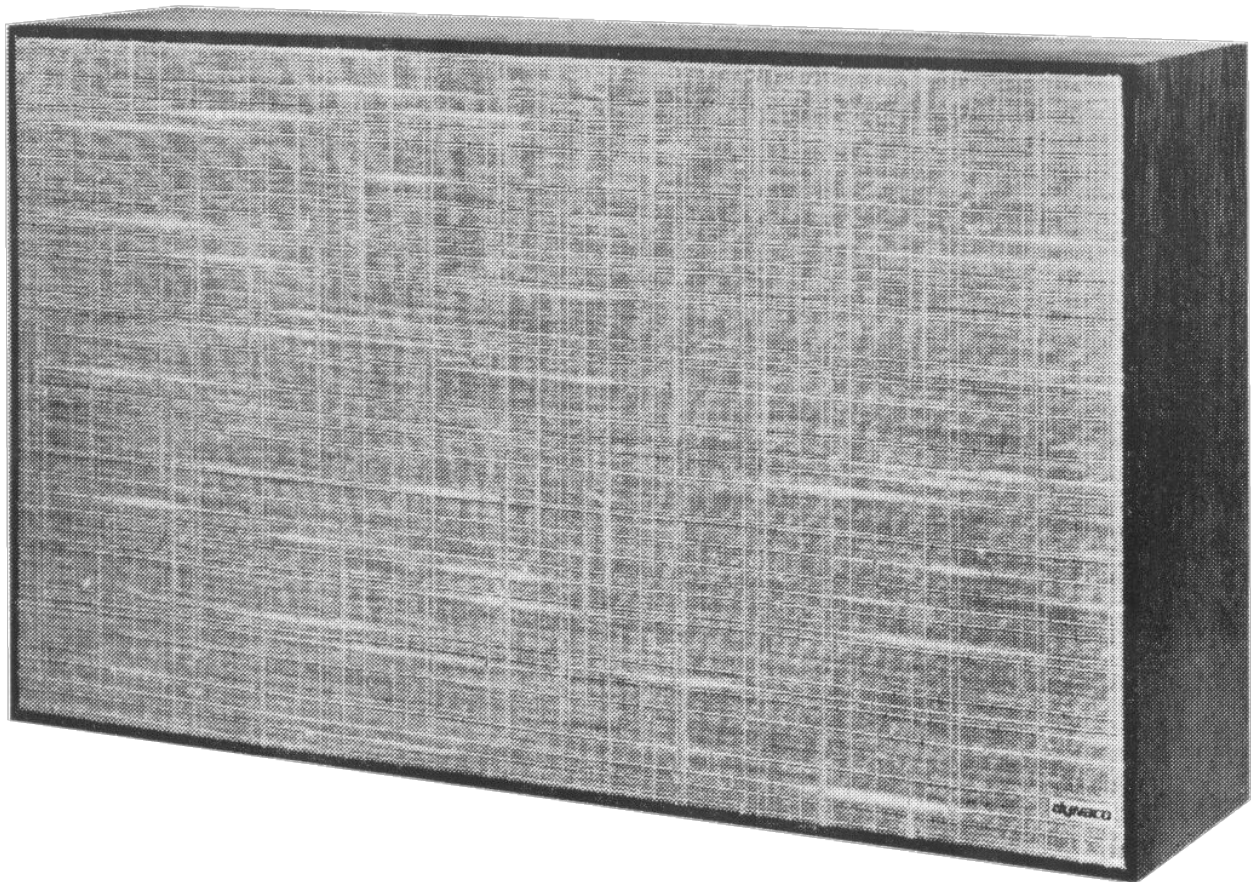
Years Produced	1971-1977	
Dimensions (HxWxD)	19.7"x11"x9.84" (50cmx28cmx25cm)	
Weight	9.2kg	
Frequency Response	38Hz-20kHz	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>20W	
Power Handling (Nominal)	35W	
Power Handling (Peak)	80W	
Treble	2" Paper Cone	SEAS 5 TV-HF
Midrange	3.5" Paper Cone	SEAS 9 TV-LG
Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequencies	1.5kHz, 4.5kHz	
Enclosure Type	Acoustic Suspension	
Enclosure Resonance	58Hz	
Dispersion (10kHz)	100°	
Finish	Teak, Black Walnut, Brazil Rosewood	
MSRP (1977)	DM 375	

In the Wild...



M-25xf

Shallow variant of the M-25x intended for low profile mounting on walls.

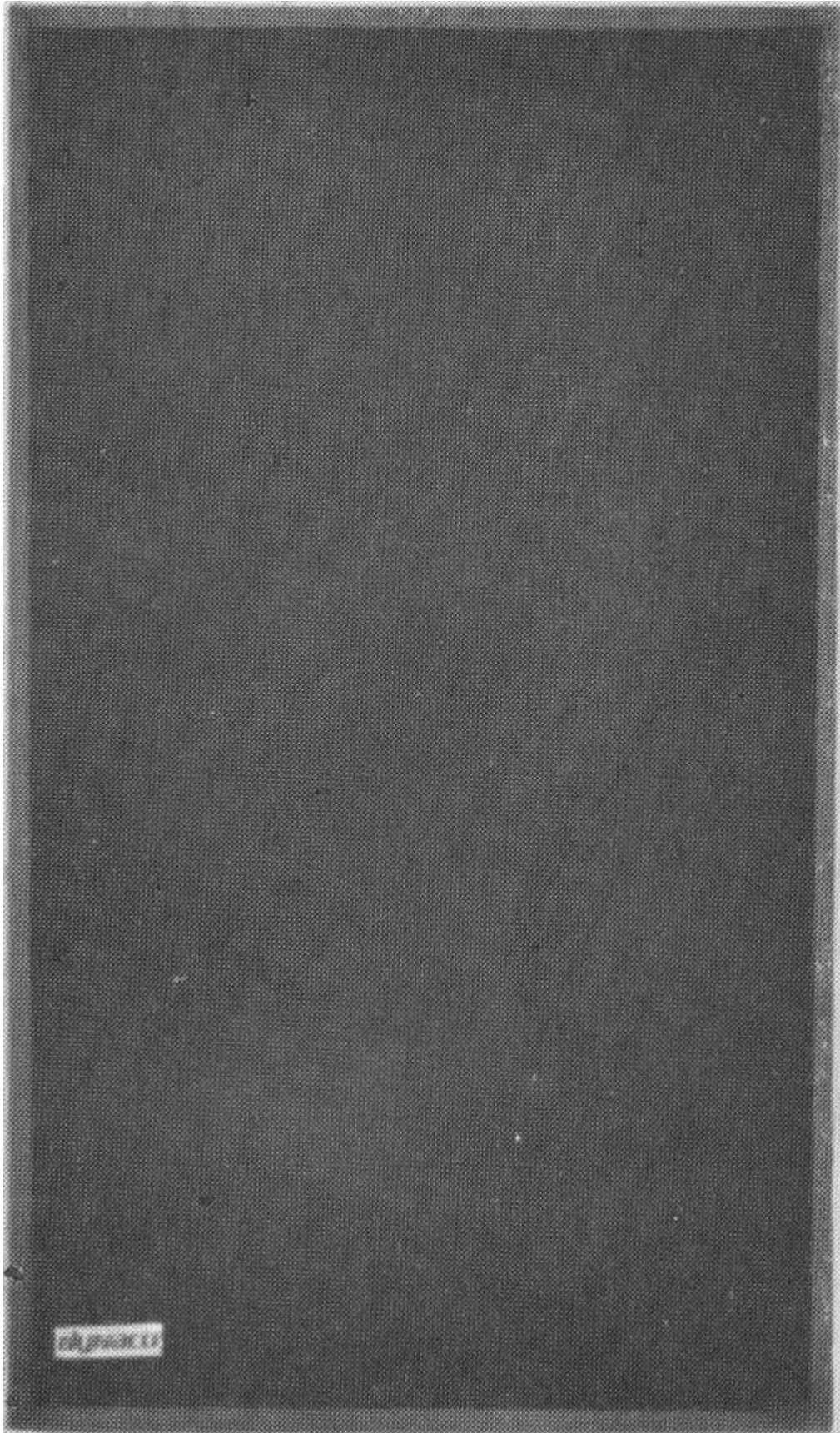


Years Produced	1968	
Dimensions (HxWxD)	23.6"x11.8"x5.9" (60cmx30cmx15cm)	
Weight	9.5kg	
Frequency Response	38Hz-20kHz	
Sensitivity	88dB/W/m	
Sensitivity (DIN, 96dB/m)	6.3W	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>20W	
Power Handling (Nominal)	35W	
Power Handling (Peak)	80W	
Treble	2" Paper Cone	SEAS 5 TV-HF
Midrange	3.5" Paper Cone	SEAS 9 TV-LG
Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequencies	1.5kHz, 4.5kHz	
Enclosure Type	Acoustic Suspension	
Enclosure Resonance	45Hz	
Dispersion (10kHz)	100°	
Finish	Teak, Black Walnut, Brazil Rosewood	
MSRP (1968)	DM 389	

In the Wild...

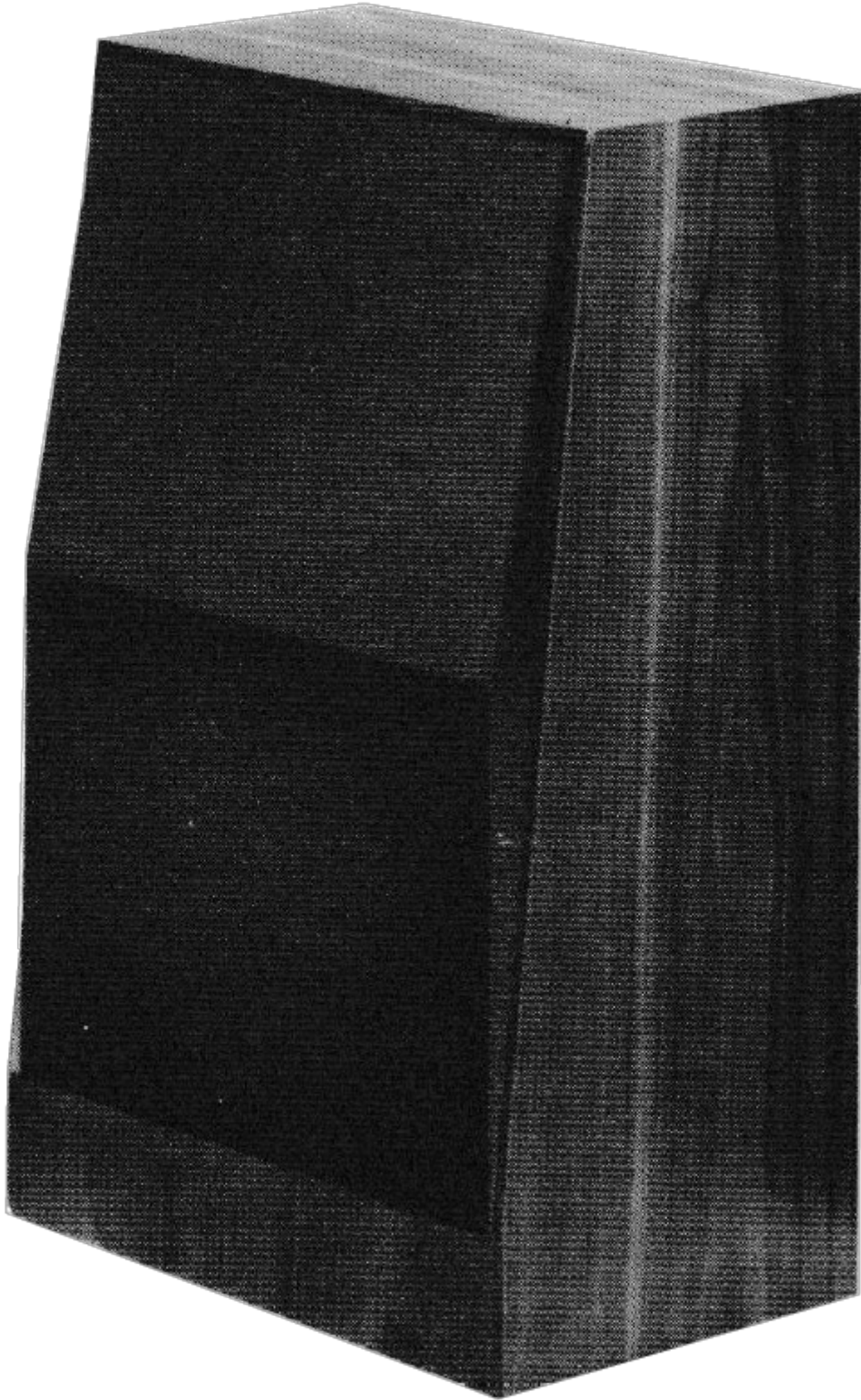


M-45



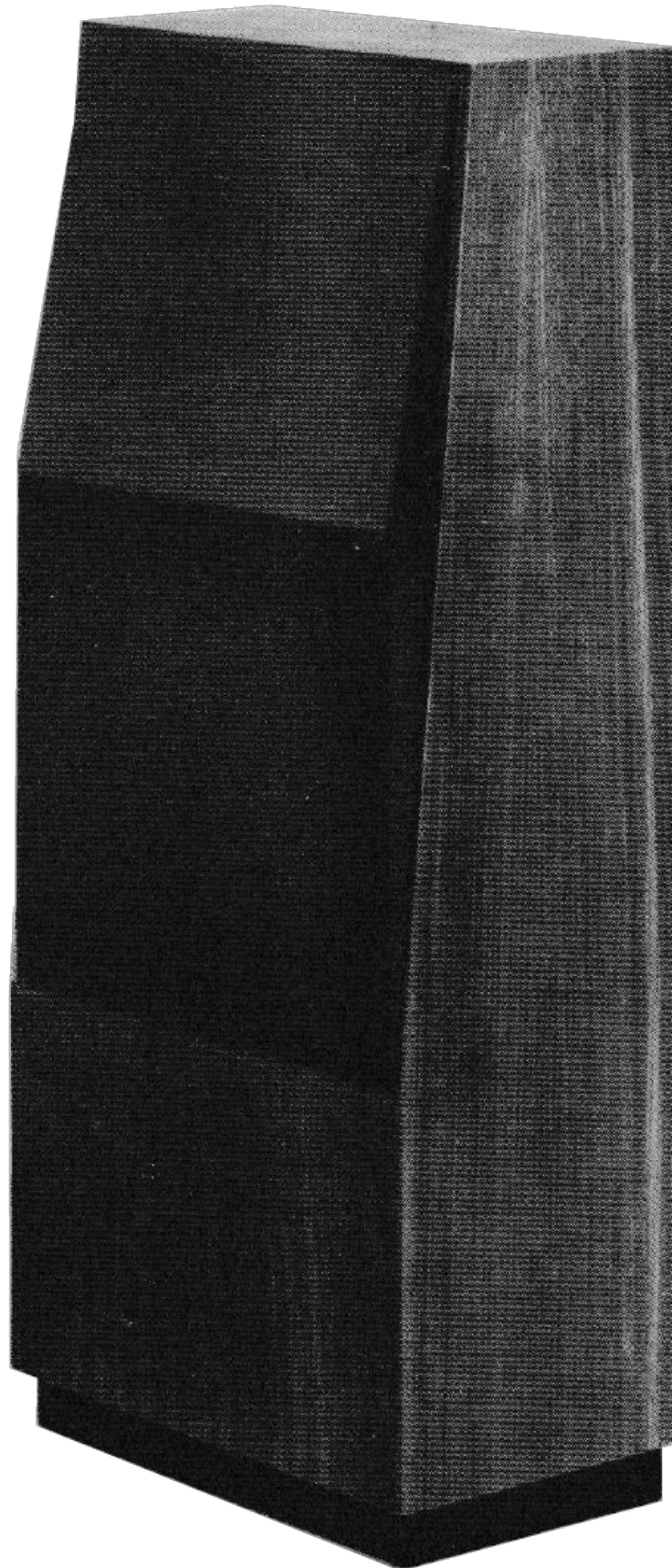
Years Produced	1968	
Dimensions (HxWxD)	25.2"x15"x11.8" (64cmx38cmx30cm)	
Frequency Response	38Hz-20kHz	
Sensitivity (DIN, 96dB/m)	3.2W	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	>25W	
Power Handling (Nominal)	50W	
Power Handling (Peak)	100W	
Treble	2" Paper Cone	
Midrange	3.5" Paper Cone	
Midbass	4"x6" Paper Cone	
Bass	12" Paper Cone	
Enclosure Type	Acoustic Suspension	
Enclosure Resonance	45Hz	
Dispersion (10kHz)	100°	

Phase 3 Model 45



Years Produced	1977-1978	
Dimensions (HxWxD)	25.25"x14.75"x10.25"	
Weight		
Frequency Response	35Hz-22kHz	
Sensitivity	88dB/W/m	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power		
Power Handling (Nominal, DIN 45.573)	60W	
Power Handling (Peak)	100W	
Treble	1" Dome	
Midrange	4.25" Cone	
Bass	10" Paper Cone	
Crossover Frequencies	1kHz, 5kHz	
Enclosure Type	Sealed	
System Resonance	55Hz	
Finish	Walnut	
MSRP (1977)		

Phase 3 Model 60

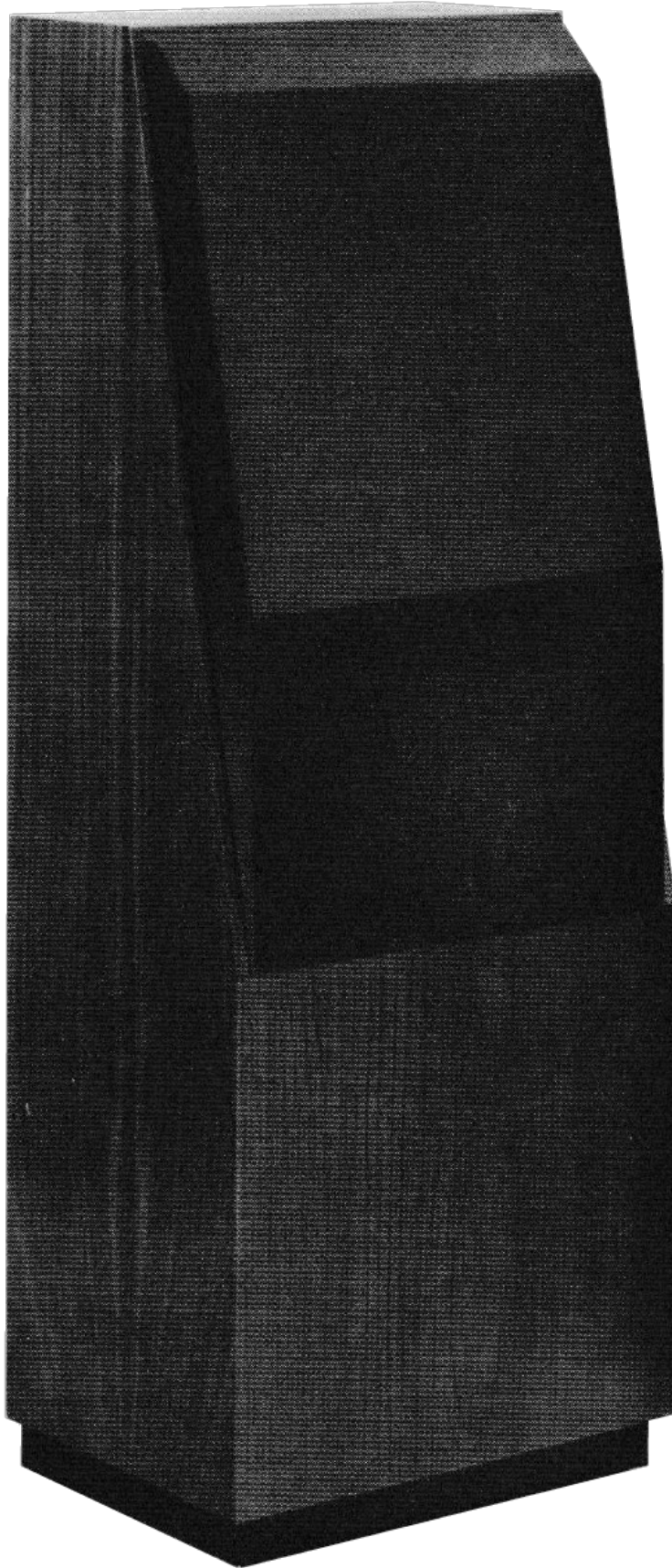


Years Produced	1977-1978	
Dimensions (HxWxD)	36"x13.25"x9.25"	
Weight (Shipped)		
Frequency Response	32Hz-22kHz	
Sensitivity	89dB/W/m	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power		
Power Handling (Nominal, DIN 45.573)	60W	
Power Handling (Peak)	100W	
Treble	1" Dome	
Midrange	4.25" Cone	
Bass	10" Paper Cone	
Crossover Frequencies	1kHz, 5kHz	
Enclosure Type	Sealed	
System Resonance	50Hz	
Finish	Walnut	
MSRP (1977)	\$299	

In the Wild...



Phase 3 Model 80



Years Produced	1977-1978	
Dimensions (HxWxD)	42.6"x15"x11.75"	
Weight	62lbs	
Frequency Response	30Hz-22kHz	
Sensitivity	90dB/W/m	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power		
Power Handling (Nominal, DIN 45.573)	100W	
Power Handling (Peak)	150W	
Treble	1" Dome	
Midrange	4.25" Cone	
Bass	13" Paper Cone	
Crossover Frequencies	800Hz, 4kHz	
Enclosure Type	Sealed	
System Resonance	40Hz	
Finish	Walnut	
MSRP (1977)	\$399	



In the Wild...

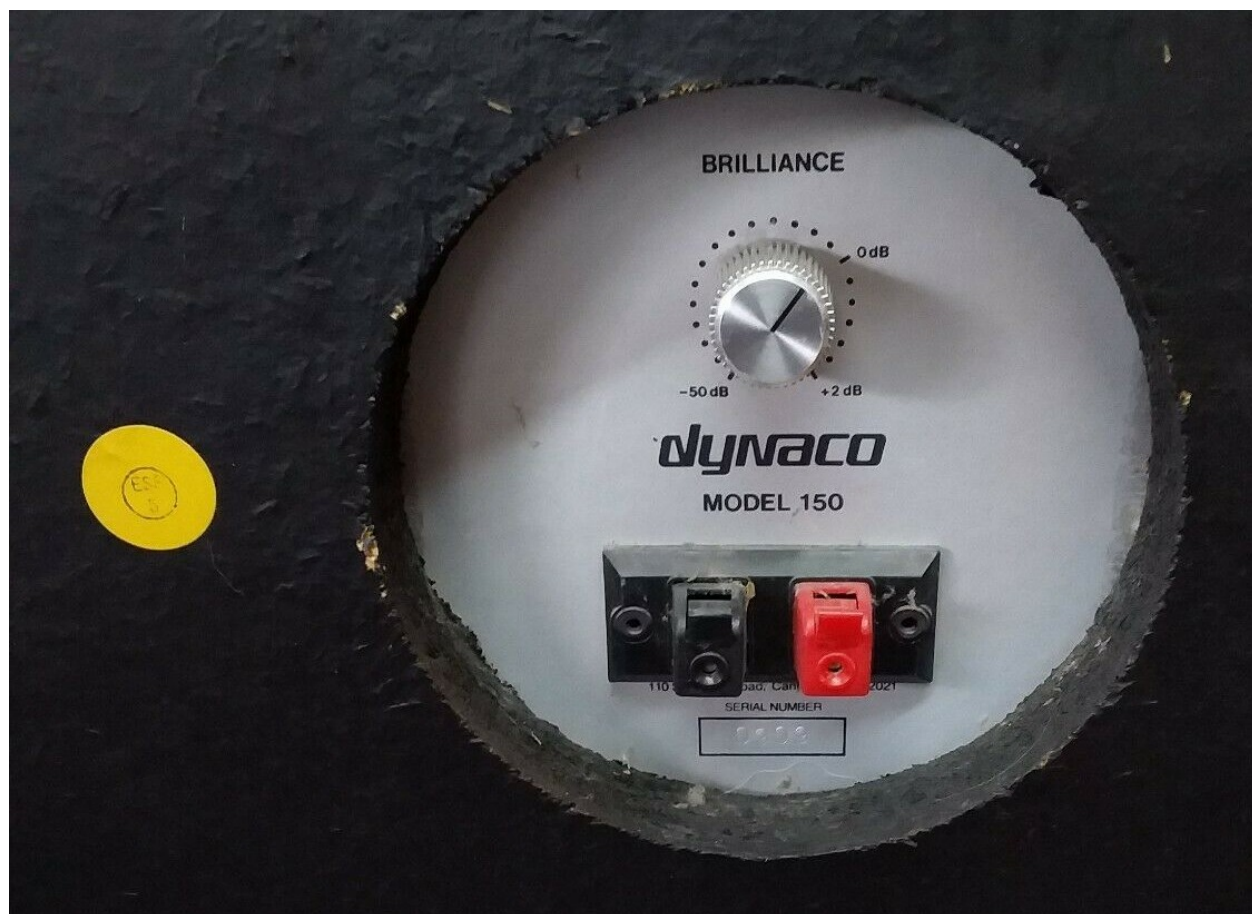


Model 150

ESS built model after buying out the Dynaco name. Initial run of the A-150 before the addition of the "A" to the model.



Years Produced	1979	
Dimensions (HxWxD)	22"x12.25"x12.75"	
Weight	36lbs	
Frequency Response	50Hz-20kHz \pm 3dB	
Sensitivity	89dB/W/m	
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power	>15W	
Power Handling (Nominal)	65W	
Treble	1" Soft Dome	
Midrange/Bass	10" Paper Cone	
Crossover Frequency	2kHz	
Enclosure Type	Sealed	
Finish	Walnut Vinyl	
MSRP (1980)	\$150	



In the Wild...



Model 250

ESS built model after buying out the Dynaco name. Initial run of the A-250 before the addition of the "A" to the model and possible revisions.



Years Produced	1979	
Dimensions (HxWxD)	25"x14.25"x14.25"	
Weight	39lbs	
Frequency Response	45Hz-20kHz \pm 3dB	
Sensitivity	89dB/W/m	
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power	>15W	
Power Handling (Nominal)		
Treble	1" Soft Dome	Polydax HD100D25
Midrange	3" Paper Cone	
Bass	10" Paper Cone	
Crossover Frequencies	300Hz, 3.5kHz	
Enclosure Type	Sealed	
Finish	Walnut	
MSRP (1980)	\$250	

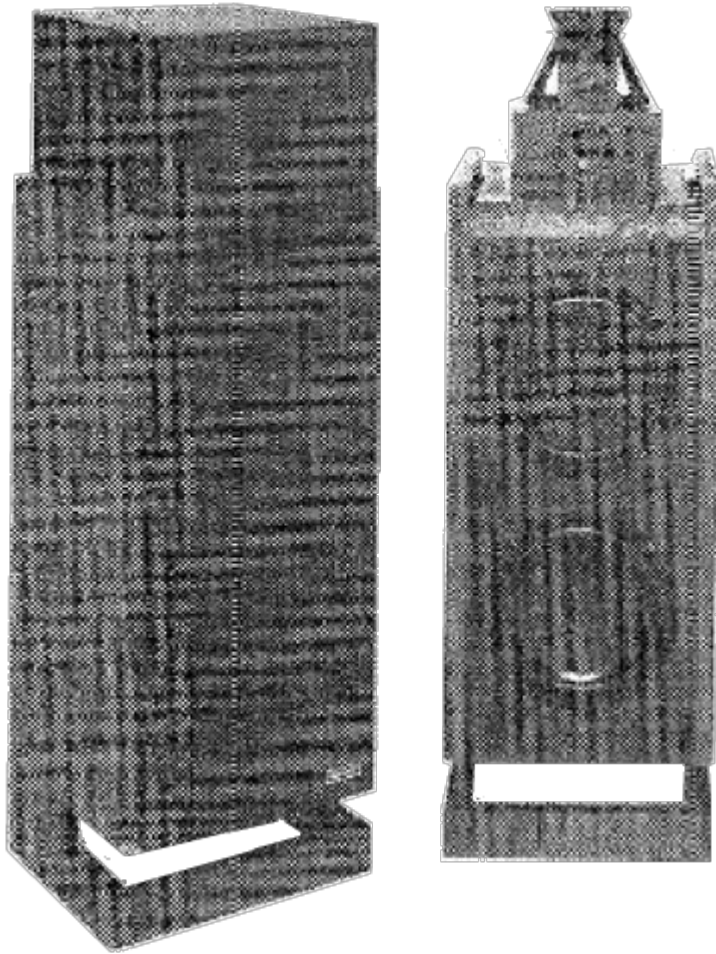


In the Wild..



Model 350

Initial run of the A-350 before further refinements of the model and the addition of the "A" to the model. Very few built, perhaps numbering less than 200 units. Notable for piezoelectric supertweeter mounted to reflect off a plastic cone deflector for omnidirectional dispersion.



Years Produced	1980	
Dimensions (HxWxD)	43"x14"x14.5"	
Weight	87lbs	
Frequency Response	35Hz-25kHz \pm 3dB	
Sensitivity	89dB/W/m	
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power	>15W	
Power Handling (Nominal)	110W	
Supertweeter	Omni-Dyn Omnidirectional Piezoelectric	
Treble	0.8" Soft Dome	
Midrange	3" Cone	
Bass	10" Paper Cone	
Passive Radiator	10" Paper Cone	
Crossover Frequencies	500Hz, 3.5kHz, 11.3kHz	
Enclosure Type	Passive Radiator	
Finish	Walnut	
MSRP (1980)	\$390	



In the Wild...



Type 201

Scandinavian Sound Corporation (SSC) SSC-20 speaker rebadged as a Dynaco product.



Years Produced	1967-1968	
Dimensions (HxWxD)	17.7"x9.5"x9.8" (45cmx24cmx25cm)	
Weight	(16.5lbs 7.5kg)	
Frequency Response	50Hz-18kHz	
Sensitivity	94dB/W/m	
Sensitivity (96dB/m, DIN)	1.6W	
Impedance (Nominal)	4Ω	
Power Handling (Nominal, DIN 45.500)	20W	
Power Handling (Peak)	40W	
Treble	2" Paper Cone	
Midrange/Bass	5"x7" Paper Cone	
Enclosure Type	Acoustic Suspension	
Finish	Walnut	



In the Wild...



Type ??

Scandinavian Sound Corporation (SSC) speaker rebadged Dynaco.



Years Produced	1967-1968	
Dimensions (HxWxD)	19.75"x11"x9.8" (50cmx28cmx??cm)	
Frequency Response		
Impedance (Nominal)		
Power Handling (Nominal, DIN 45.500)		
Power Handling (Peak)		
Treble	3.5" Paper Cone	SEAS 9 TV-LG
Midrange/Bass	6.5"x11" Paper Cone	SEAS 28/17 TV-GW
Enclosure Type	Acoustic Suspension	
Finish	Walnut	

In the Wild...



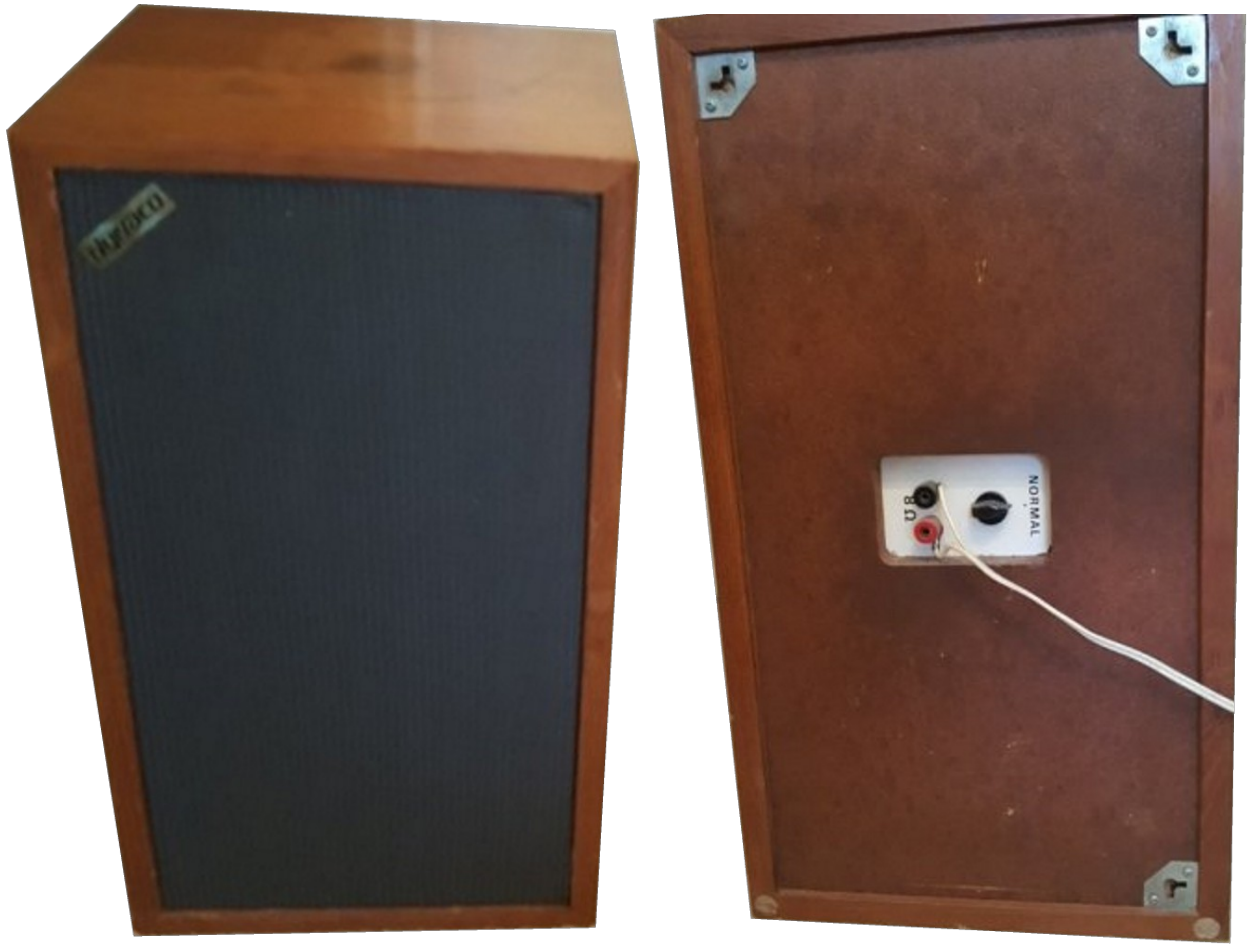
Type ?? (Variant)

Scandinavian Sound Corporation (SSC) speaker rebadged Dynaco.



Years Produced	1967-1968	
Dimensions (HxWxD)	19.75"x11"x9.8" (50cmx28cmx??cm)	
Frequency Response		
Impedance (Nominal)		
Power Handling (Nominal, DIN 45.500)		
Power Handling (Peak)		
Treble	3.5" Paper Cone	SEAS 9 TV-LG
Midrange/Bass	6.5"x11" Paper Cone	SEAS 28/17 TV-GW
Enclosure Type	Acoustic Suspension	
Finish	Walnut	

In the Wild...



123C

Model from late in ESS's ownership of the Dynaco brand among several others. A re-badged model used among several of their lines including their own brand.

Years Produced	1984-1986	
Dimensions (HxWxD)	39"x15"x12	
Weight	40lbs	
Frequency Response	20Hz-30kHz	
Sensitivity	96dB/W/m	
Impedance (Nominal)	6Ω	
Recommended Amplifier Power	>12W	
Power Handling (Nominal)		
Power Handling (Peak)		
Treble	2"x5" Piezo Horn	
Midrange	5" Cone	
Bass	12" Paper Cone	
Passive Radiator	12" Cone	
Crossover Frequencies	1kHz, 5kHz	
Enclosure Type	Passive Radiator	
Finish	Walnut Vinyl	
MSRP (1984)	\$598/pr	

208

Model from late in ESS's ownership of the Dynaco brand among several others. A re-badged model used among several of their lines including their own brand in the HD series.



Years Produced	1987	
Dimensions (HxWxD)	18"x11"x9"	
Weight		
Frequency Response		
Sensitivity		
Impedance (Nominal)		
Recommended Amplifier Power		
Power Handling (Nominal)		
Power Handling (Peak)		
Treble	2"x5" Piezo Horn	
Midrange/Bass	8" Cone	
Crossover Frequency		
Enclosure Type	Sealed	
Finish	Walnut Vinyl	
MSRP		

In the Wild...



310

Model from late in ESS's ownership of the Dynaco brand among several others. A re-badged model used among several of their lines including their own brand in the HD series.

Years Produced	1984-1986	
Dimensions (HxWxD)	25"x15"x12"	
Weight	33lbs	
Frequency Response	23Hz-30kHz \pm 3dB	
Sensitivity	96dB/W/m	
Impedance (Nominal)	6 Ω	
Recommended Amplifier Power	>12W	
Power Handling (Nominal)		
Power Handling (Peak)		
Treble	2"x5" Piezo Horn	
Midrange	5" Cone	
Bass	10" Paper Cone	
Passive Radiator	10" Cone	
Crossover Frequencies	1kHz, 5kHz	
Enclosure Type	Passive Radiator	
Finish	Walnut Vinyl	
MSRP (1984)	\$398/pr	

312

Model from late in ESS's ownership of the Dynaco brand among several others. A re-badged model used among several of their lines including their own brand in the HD series.

Years Produced	1984-1986	
Dimensions (HxWxD)	25"x15"x12"	
Weight	35lbs	
Frequency Response	23Hz-30kHz \pm 3dB	
Sensitivity	96dB/W/m	
Impedance (Nominal)	6 Ω	
Recommended Amplifier Power	>12W	
Power Handling (Nominal)		
Power Handling (Peak)		
Treble	2"x5" Piezo Horn	
Midrange	5" Cone	
Bass	12" Paper Cone	
Passive Radiator	12" Cone	
Crossover Frequencies	1kHz, 5kHz	
Enclosure Type	Passive Radiator	
Finish	Walnut Vinyl	
MSRP (1984)	\$498/pr	

A-25 Clones and Tributes

The success of the A-25 ensured that immitators would arise and fans would create their own tributes after it was gone.

Annandale Acoustics

A-25 XL2



Years Produced	2009	
Dimensions (HxWxD)	21"x12.5"x10.5"	
Weight	30lbs (13.15kg)	
Frequency Response	58Hz-20kHz \pm 3dB	
Sensitivity	87dB/W/m	
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power		
Power Handling (Nominal)	150W	
Power Handling (Peak)		
Treble	1" Textile Dome	SEAS
Midrange/Bass	10" Paper Cone	SEAS A26RE4
Crossover Frequency	2kHz	
Crossover Slope	24dB/Octave	
Enclosure Type	Aperiodic	
Finish	Walnut, Cherry	
MSRP (2009)	\$2499/pr	

Annandale Acoustics

A26se



Years Produced	20??	
Dimensions (HxWxD)	21"x12.5"x10.5"	
Weight	29lbs (13.15kg)	
Frequency Response	58Hz-20kHz \pm 3dB	
Sensitivity	87dB/W/m	
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power		
Power Handling (Nominal)	150W	
Power Handling (Peak)		
Treble	1" Textile Dome	SEAS
Midrange/Bass	10" Paper Cone	SEAS A26RE4
Crossover Frequency	2kHz	
Crossover Slope	24dB/Octave	
Enclosure Type	Aperiodic	
Finish	Walnut, Cherry	
MSRP (2020)	\$2499/pr	

Aural Replica

A-25



Years Produced	2007-2017	
Dimensions (HxWxD)	22"x14.375"x10"	
Weight	29lbs (13.15kg)	
Frequency Response	42Hz-30kHz \pm 3dB	
Sensitivity	91.5dB/W/m	
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power	10-120W	
Power Handling (Nominal)		
Power Handling (Peak)		
Treble	1" Textile Dome	SEAS 27TDFC
Midrange/Bass	10" Paper Cone	SEAS A26RE4
Crossover Frequency		
Crossover Slope		
Enclosure Type	Aperiodic	
Finish	Cherry, Maple, Walnut	
MSRP (2010)	\$1000/pr	

Dansk

A-25

Plustronics Ltd. distributed A-25 clone for the UK market.

Years Produced	1977-1978	
Dimensions (HxWxD)	20"x11.5"x10" (50cmx29cmx25cm)	
Weight		
Frequency Response	30Hz-20kHz	
Sensitivity (96dB/1kHz)	5W	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power		
Power Handling (Nominal)	45W	
Power Handling (Peak)	90W	
Treble	1.5" Textile Dome	
Midrange/Bass	10" Paper Cone	
Crossover Frequency	1.5kHz	
Crossover Slope		
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish		
MSRP (1977)	£45.81	

Hans Baan

HB-5

Dutch made A-25 clone by former Dynaco dealer immediately after original Dynaco A-25 became unavailable.



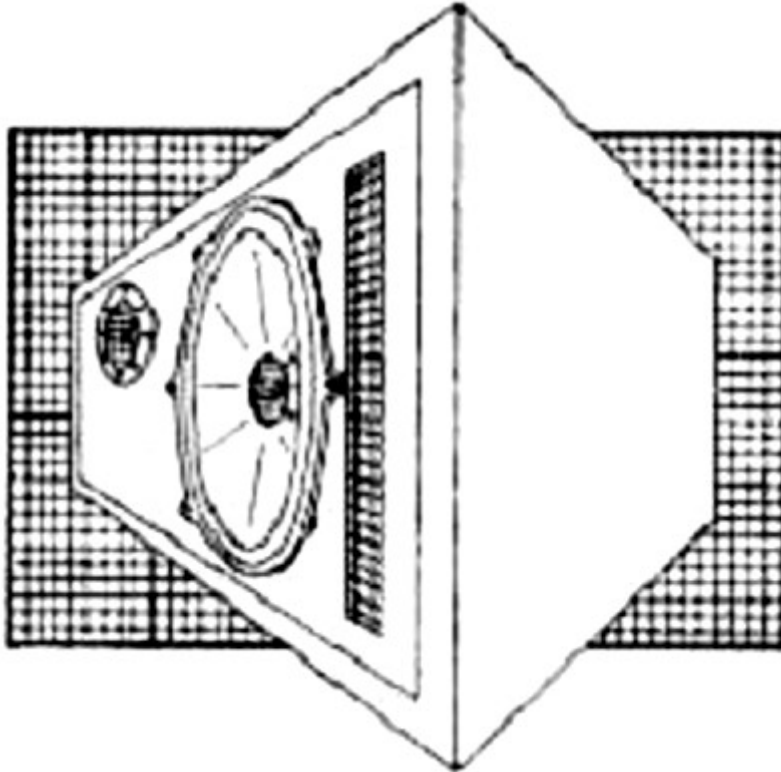
Years Produced	1978-1979	
Dimensions (HxWxD)	19.7"x11.8"x9.8" (50cmx30cmx25cm)	
Weight	19.6lbs (8.9kg)	
Frequency Response	40Hz-25kHz	
Sensitivity		
Impedance (Nominal)	8Ω	
Recommended Amplifier Power	15-75W	
Power Handling (Nominal)	50W	
Power Handling (Peak)		
Treble	1" Textile Dome	Peerless KO10DT
Midrange/Bass	10" Paper Cone	SEAS 25 F-EW
Crossover Frequency	2kHz	
Crossover Slope	6dB/Oct	
Enclosure Type	Aperiodic	
Enclosure Volume	25l	
Finish	Walnut	
MSRP		



Hi-Fi Kits

HT Kit 1

Very early Danish kit clone of the A-25.



Years Produced	1969	
Dimensions (HxWxD)		
Weight		
Frequency Response		
Sensitivity		
Impedance (Nominal)		
Recommended Amplifier Power		
Power Handling (Nominal)		
Power Handling (Peak)		
Treble	1.5" Textile Dome	SEAS H087
Midrange/Bass	10" Paper Cone	SEAS 25 TV-EW
Crossover Frequency		
Crossover Slope		
Enclosure Type	Aperiodic	
Enclosure Volume		
Finish		
MSRP	kr. 798/pr	

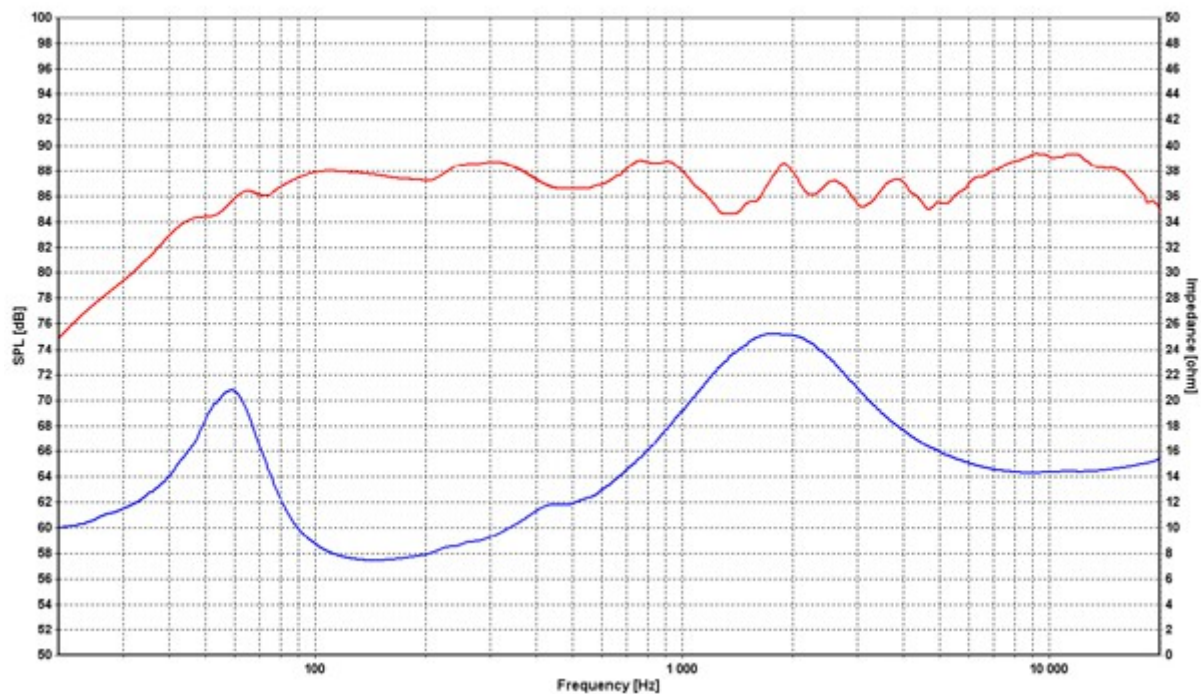
SEAS

A26

Perhaps the best known modern A-25 tribute. Designed by Håvard Sollien and Diego Ivars of SEAS using a purpose designed tweeter inspired by the SEAS H087. Available as a kit or factory assembled.



Years Produced	2015-2021	
Dimensions (HxWxD)	20.1"x12.2"x10.25"	
Weight		
Frequency Response		
Sensitivity	88dB/2.83V/m	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power		
Power Handling (Nominal)		
Power Handling (Peak)		
Treble	1.5" Textile Dome	SEAS T35C002
Midrange/Bass	10" Paper Cone	SEAS A26RE4
Crossover Frequency		
Crossover Slope	6dB/Oct	
Enclosure Type	Aperiodic	
Enclosure Volume	28l	
Finish	Cherry	
MSRP (2021)	\$1254	



Standard Sound

AS-251

Japan made A-25 clone.



Years Produced	
Dimensions (HxWxD)	
Weight	
Frequency Response	
Sensitivity	
Impedance (Nominal)	8Ω
Recommended Amplifier Power	
Power Handling (Nominal)	
Power Handling (Peak)	
Treble	1.5" Textile Dome
Midrange/Bass	10" Paper Cone
Crossover Frequency	
Crossover Slope	
Enclosure Type	Aperiodic
Finish	Walnut
MSRP	



Vinyl Consultant

Dynaco A25

"Dynaco A25

"A speaker with the same design concept of the legendary Dynaco A25. This model utilize similar Seas drive units but with extended frequency response.

"Enclosure: Our patent pending "Sand column inbuilt honeycomb enclosure". Honeycombs have long been used in the aerospace because of it is light weight and does not store energy. Both the sides and the rear panel have cavity for sand particle infill for the dissipation of these vibration energy."



Years Produced	2016-2021	
Dimensions (HxWxD)	19"x11"x10"	
Weight		
Frequency Response	50Hz-21kHz	
Sensitivity	89dB/W/m	
Impedance (Nominal)	8Ω	
Recommended Amplifier Power		
Power Handling (Nominal)	100W	
Power Handling (Peak)		
Treble	1" Textile Dome	
Midrange/Bass	10" Paper Cone	SEAS A26RE4
Crossover Frequency		
Crossover Slope	12dB/Octave	
Enclosure Type		
Finish	Walnut	
MSRP		

World Designs

WD25A

Dynaco A-25 inspired project and kit designed by Peter Comeau and first published in Hi-Fi World. Several versions were offered representing the use of increasingly expensive SEAS tweeters: the WD25A STD, WD25A STD v2, WD25A XL (SEAS Excel) and WD25A EX (SEAS Millennium). A follow on model, the WD25T was a floor-standing version with an internal aperiodic arrangement like the Dynaco A-35.



Years Produced	2006	
Dimensions (HxWxD)	21"x12.5"x10.5"	
Weight	30lbs (13.15kg)	
Frequency Response	58Hz-20kHz \pm 3dB	
Sensitivity	87dB/W/m	
Impedance (Nominal)	8 Ω	
Recommended Amplifier Power		
Power Handling (Nominal)	150W	
Power Handling (Peak)		
Treble	1" Textile Dome	SEAS
Midrange/Bass	10" Paper Cone	SEAS A26RE4
Crossover Frequency	2kHz	
Crossover Slope	24dB/Octave	
Enclosure Type	Aperiodic	
Finish	Walnut, Cherry	
MSRP (2009)	\$2499/pr	

Technical Addendum

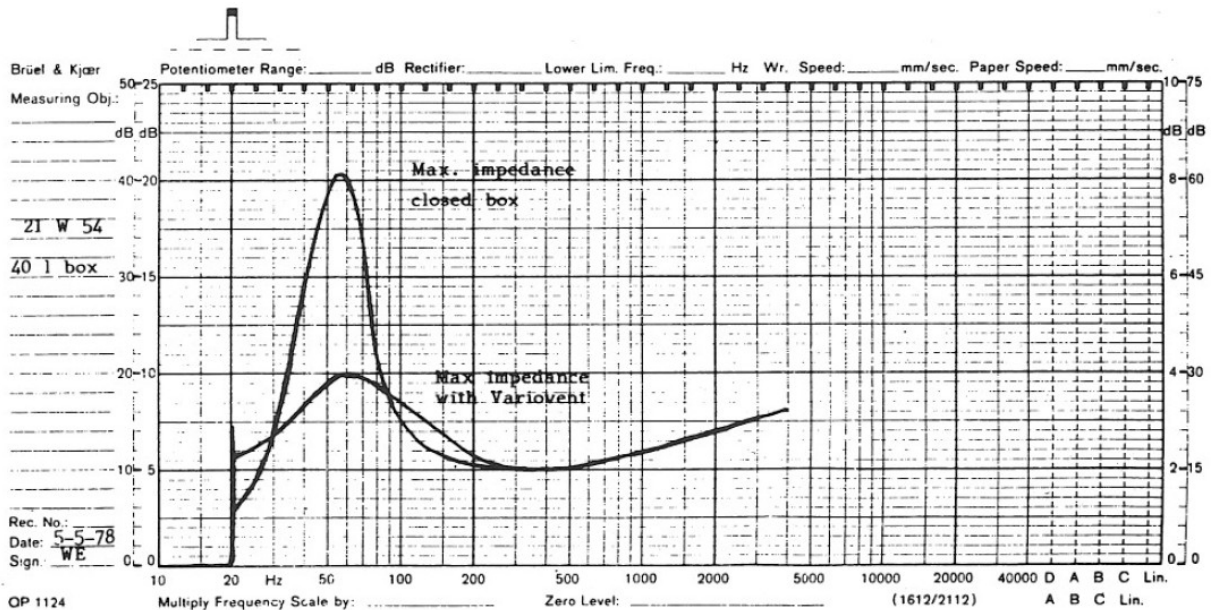
The Aperiodic Principle

(Not Bass Reflex!)

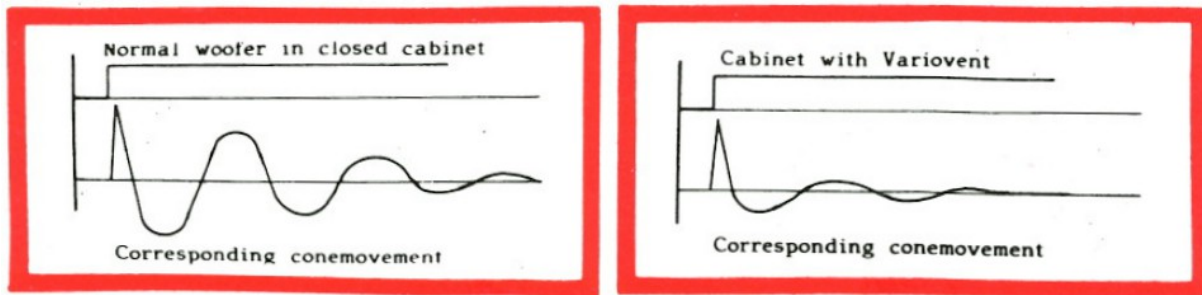
Perhaps the most recognizable feature of Dynaco's most famous models, the aperiodic vent, is also the most misunderstood. Common parlance refers to it as an "aperiodic port" leading folks to assume it's a bass reflex port. It is not. The aperiodic vent allows the speaker cabinet to act as what may be better considered a "leaky" sealed enclosure.

In a typical sealed speaker, as the frequency reproduced nears the resonant frequency of the enclosure (something determined by the internal volume), a standing wave develops causing an increase in pressure. As the pressure increases, the driver reacts to this increasing resistance to compression, which can be seen as a spike in the impedance curve of the speaker. This spike in impedance presents the amplifier with a more difficult load.

In an enclosure with an aperiodic vent (sometimes referred to commercially as a "variovent"), the vent acts like a pressure release valve. Rather than just being a hole in the box that may induce resonance like a port, the aperiodic (literally meaning "without period or resonance") vent acts as an "acoustic resistor" wherein the material sandwiched within provides just enough resistance to flow to maintain sealed behavior, but allow excess pressure to escape beyond a tuned for point. This, in effect, reduces the Q or resonant peak of the enclosure akin to a larger box though without the efficiency gains. The flattening of the impedance curve that results presents a much easier load for the amplifier, flattens the response hump that would be otherwise present for the driver in a conventional box of similar size and, to a degree, extend the response slightly lower.



An added benefit is found with the resistance of the vent providing additional mechanical damping of the woofer cone's motion reducing overhang and increasing the accuracy of bass reproduction.



Though Ejvind Skaaning would later develop a format of the aperiodic vent that was friendlier for commercial production called the "Variovent" to be sold at his Scan-Speak and Dynaudio ventures, Dynaco speakers predate this, requiring a more hands-on construction and tuning of their vents. In the Dynaco speakers, the aperiodic vent is a slot cut into the enclosure, typically the baffle (roughly 2"x7.5" for the A-25) which is then covered by two screens sandwiching a quantity of fiberglass material. The amount and density of this fiberglass was adjusted by hand during assembly using a 5Hz square wave to watch for minimum overshoot in the back EMF on an oscilloscope. When the optimal squarewave was measured, the vent was considered tuned appropriately for accurate reproduction.

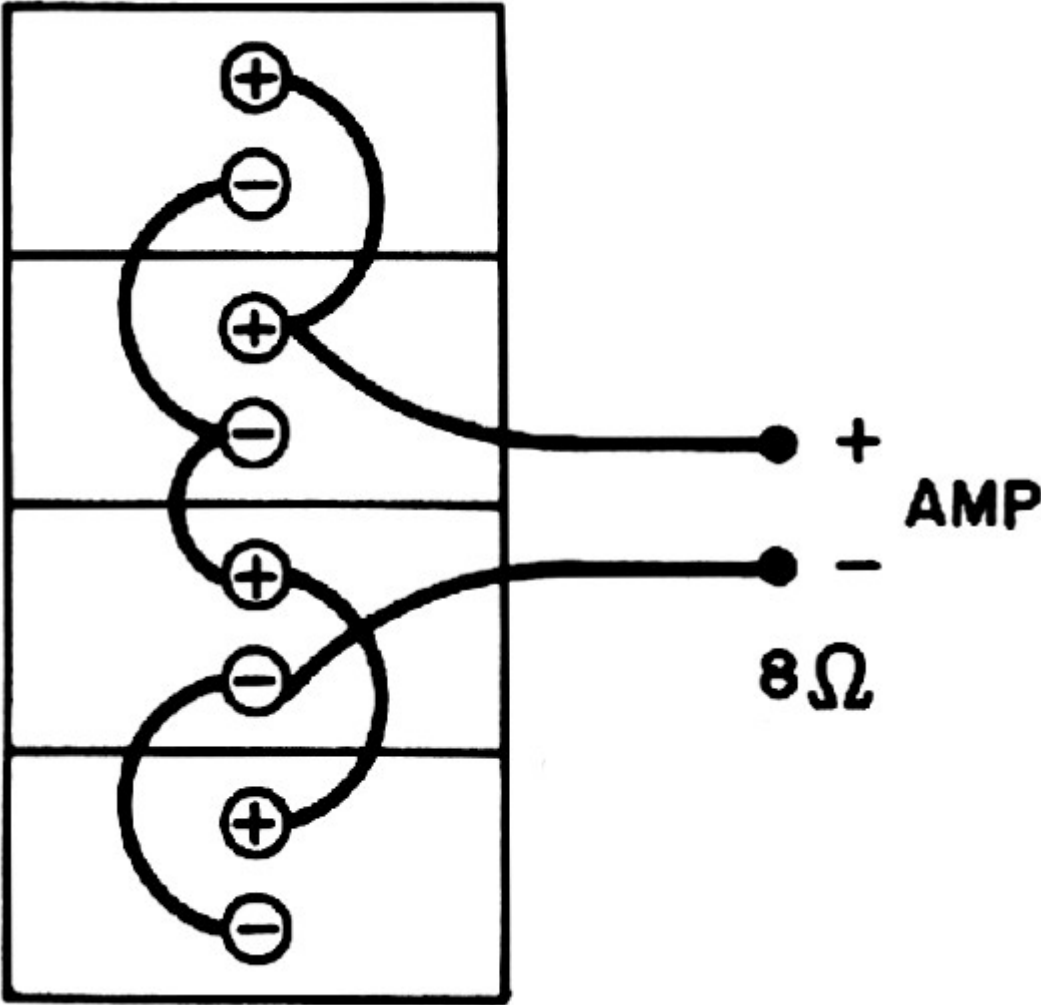
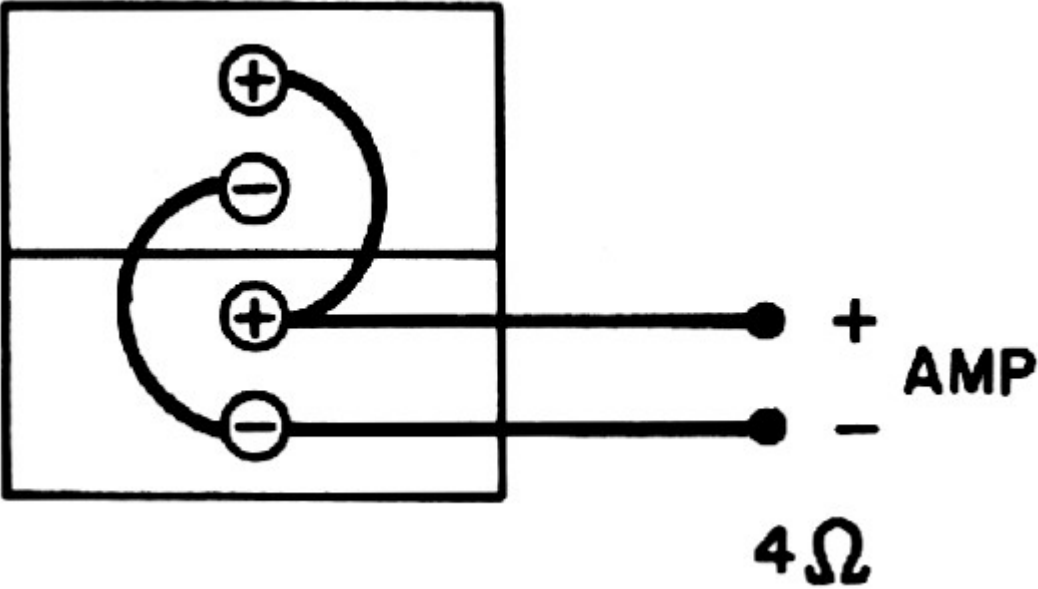
Dynamax

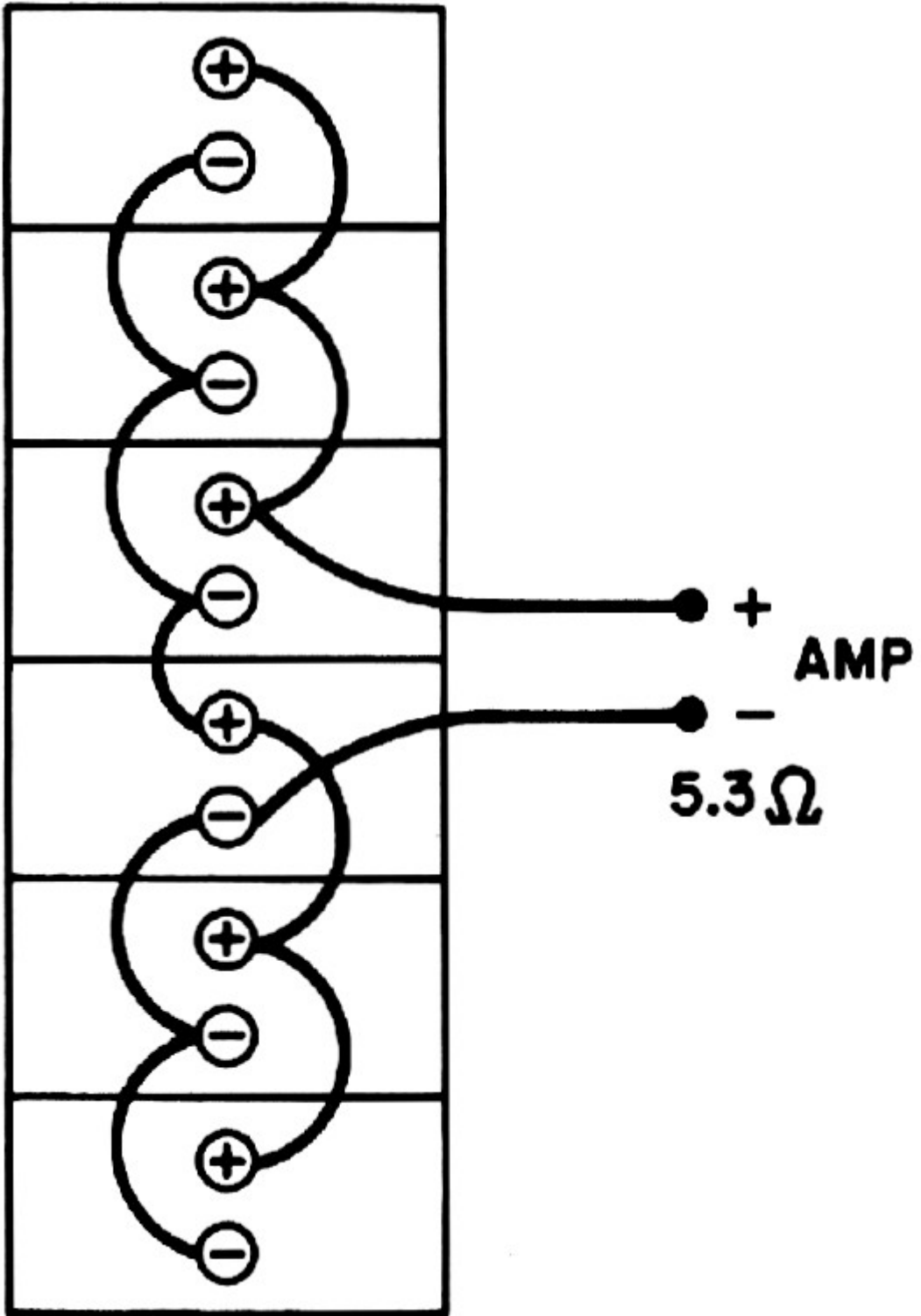
The Dynamax was created by Dynaco in answer to the brief stacking fad that occurred in the early 1970s. By stacking multiple examples of the same model, maximum output and power handling would be increased while distortion would be decreased. There were further advantages to be had with this pseudo-line array approach, primarily in the significant increase in woofer surface area. To aid customers interested in creating such an array, Dynaco released a white paper to instruct how to best employ their models and wire the units to present a safe load for the amplifier.

While the models A-10, A-25, A-25XL, A-35 and A-40XL were suggested for the Dynamax system, the A-35 and A-40XL were the recommended models. The A-25 was suggested for use in the Dynamax with an octave equalizer to correct the resultant response imbalance. For maximum power handling, the A-25XL and A-40XL were the preferred models.



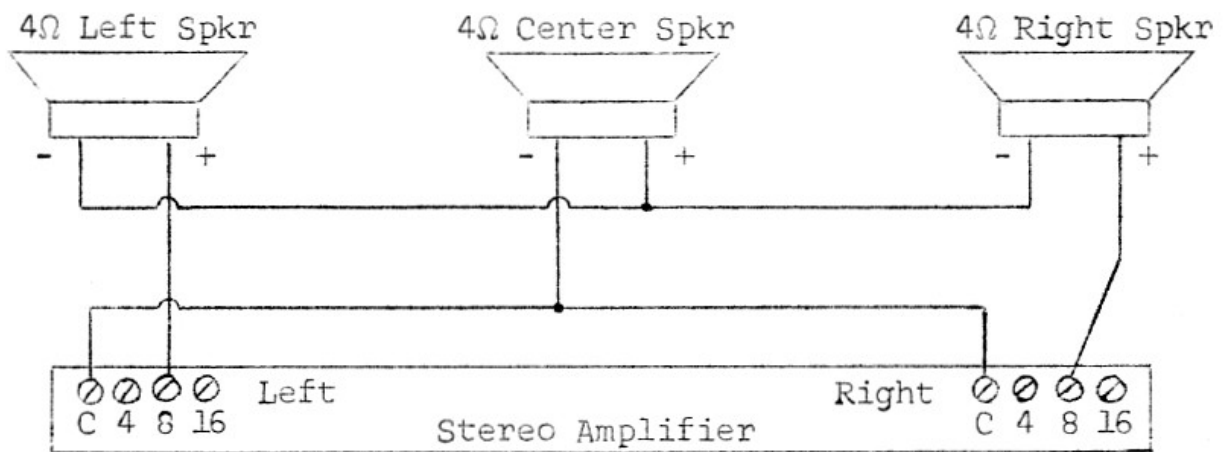
Dynamax Wiring Instructions





Derived Center Channel

Before the Dynamax, Dynaco had developed a phantom center wiring scheme for three speaker stereo. Though this was distributed before Dynaco speakers were sold, it continued to be a suggested arrangement for Dynaco A-25s and similar models.

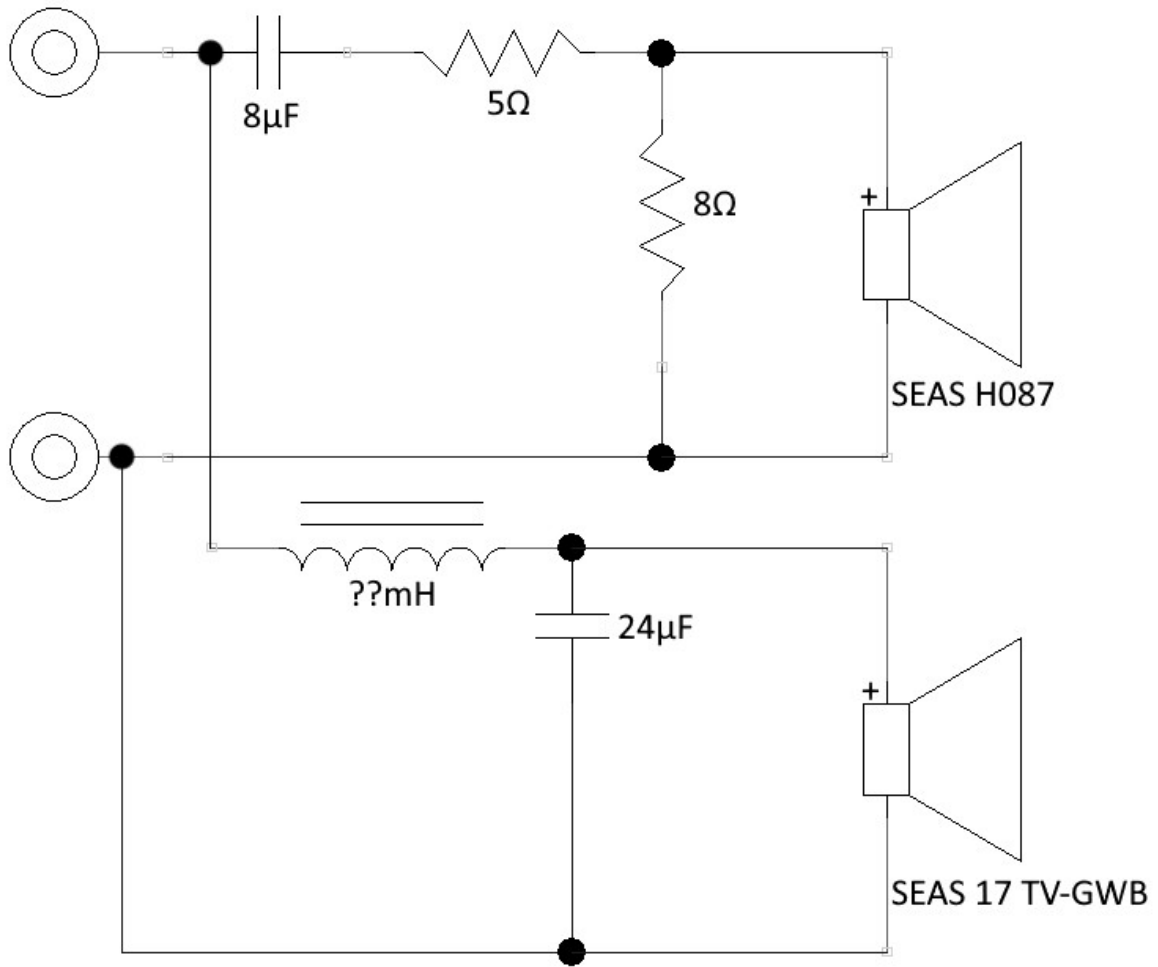


Note: 4 ohm speakers shown connect to 8 ohm amplifier taps.
8 and 16 ohm speakers connect to 16 ohm amplifier taps.

Crossover Schematics

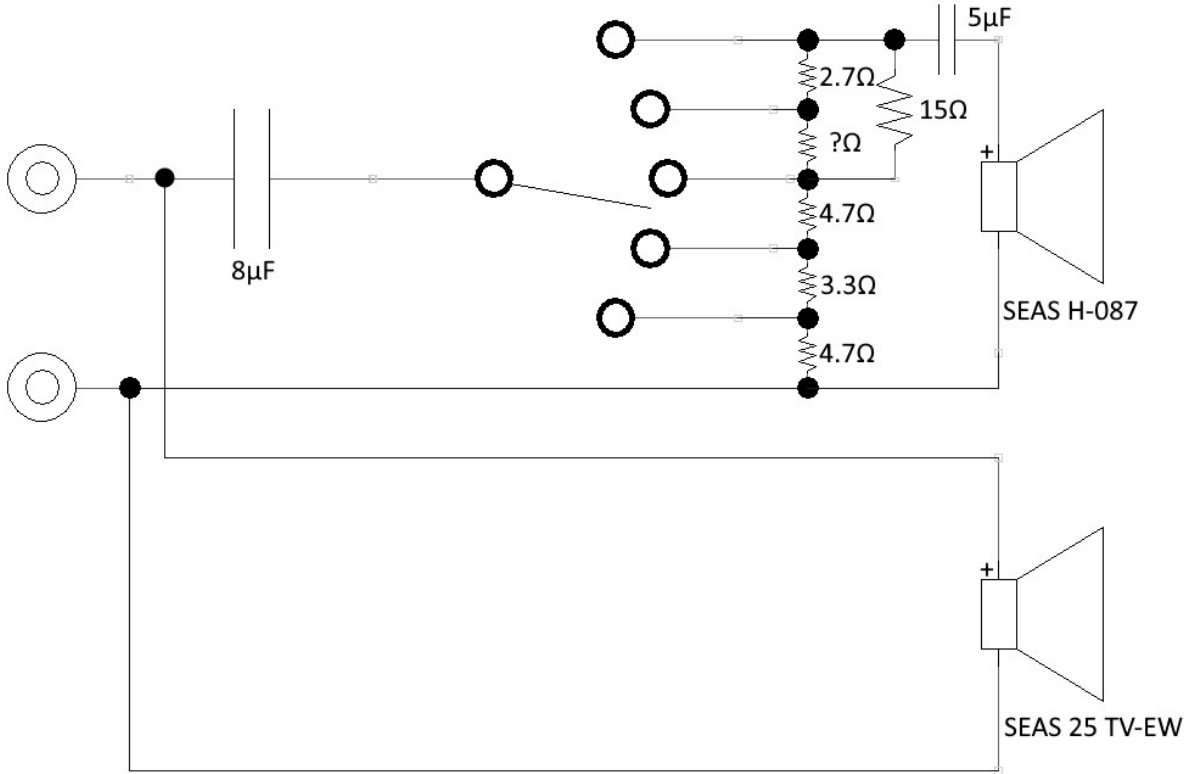
• A-10	311
• A-25 (Early Production)	312
• A-25 (Alternate Baffle, Peerless Woofer, Philips Tweeter)	313
• A-25 (Alternate Baffle)	314
• A-25 (Alternate Baffle, Tweeter Bevel)	315
• A-25 (Mid Production and Later)	316
• A-25 Mark II	317
• A-25 Mk II	318
• A-25XS	319
• A-25XL	320
• A-35	321
• A-40XL	322
• A-50 (SEAS Woofer, Scan-Speak Tweeter)	323
• A-50 (Mid Production and Later)	324
• M-25X (Scan-Speak Variant)	325

A-10



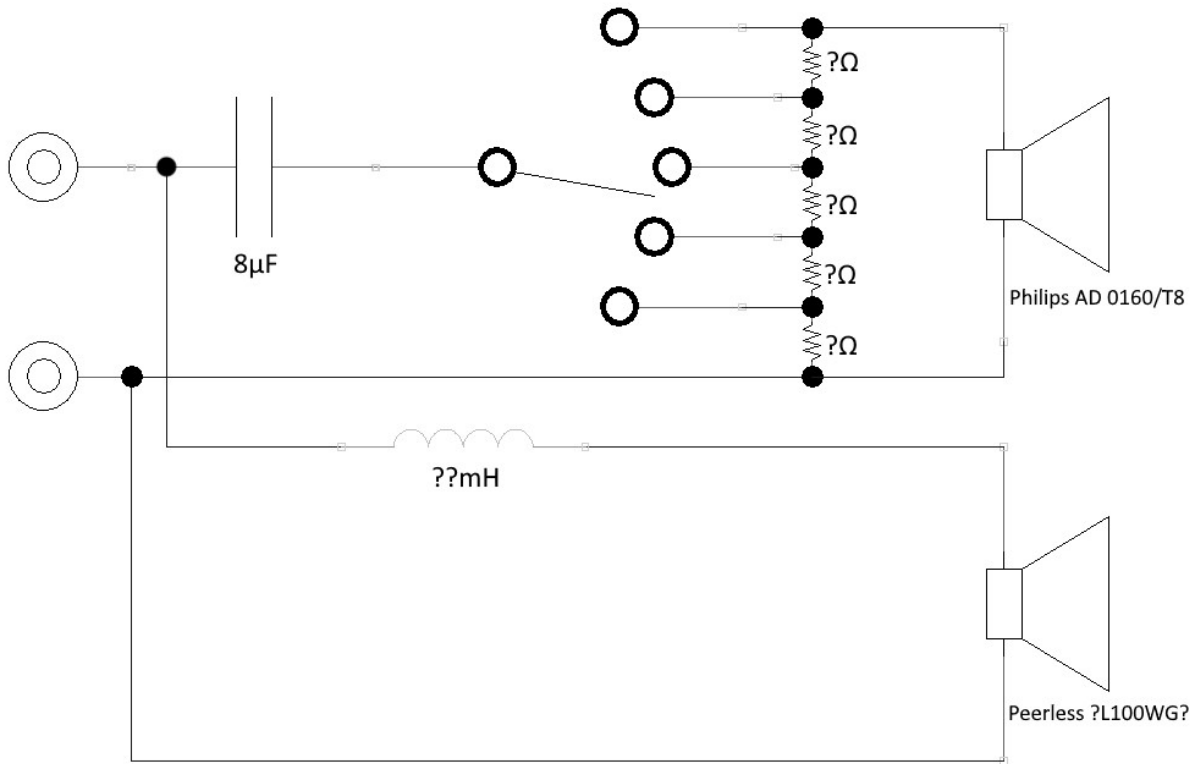
A-25

(Early Production)



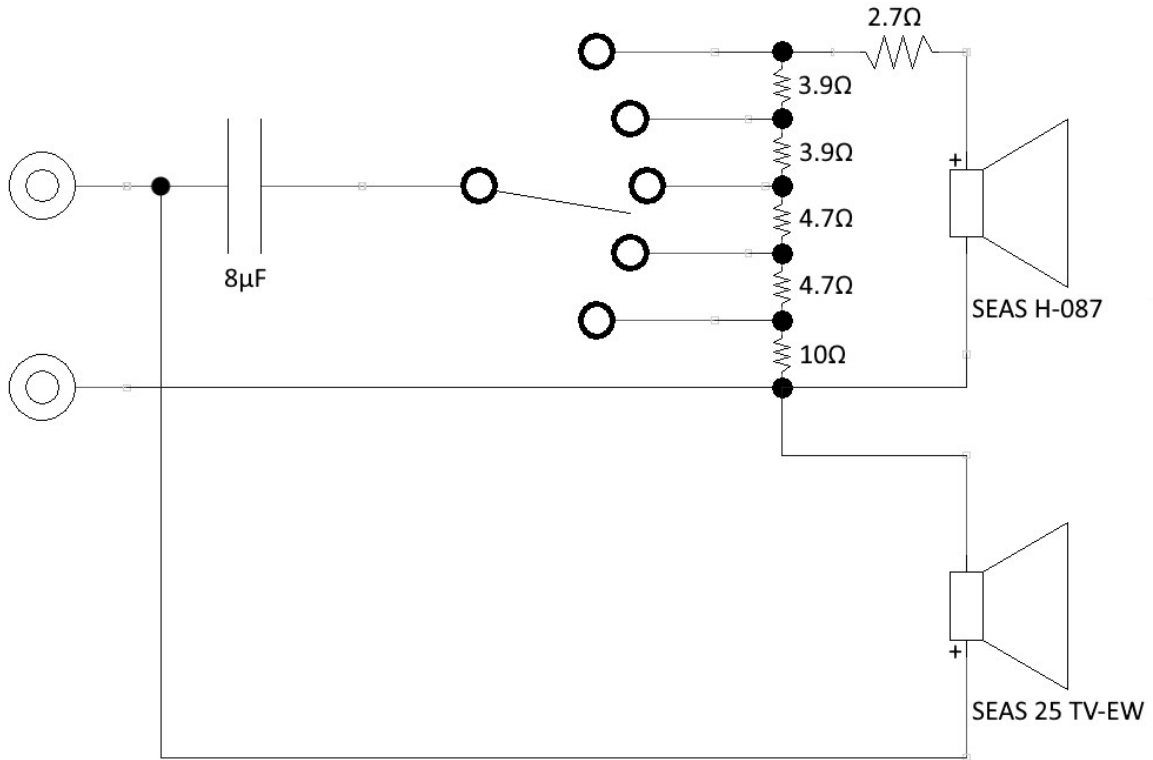
A-25

(Alternate Baffle, Peerless Woofer, Philips Tweeter)



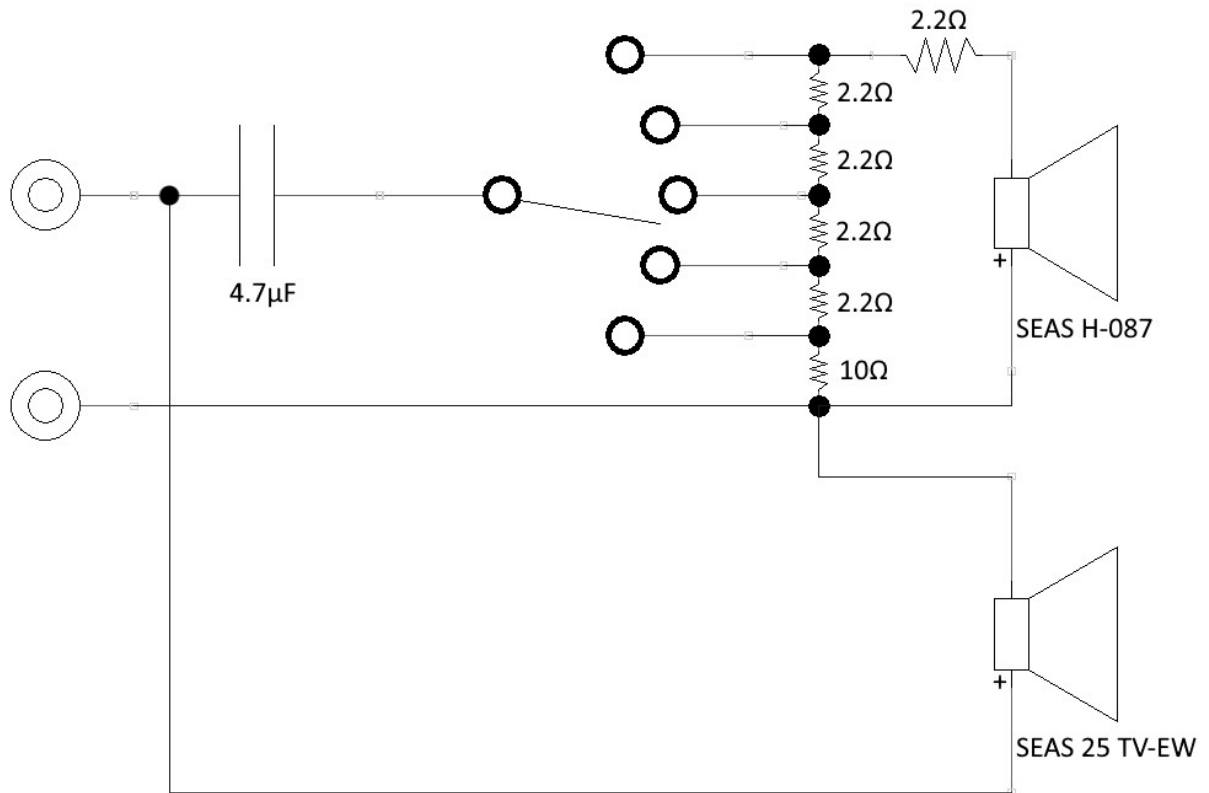
A-25

(Alternate Baffle)



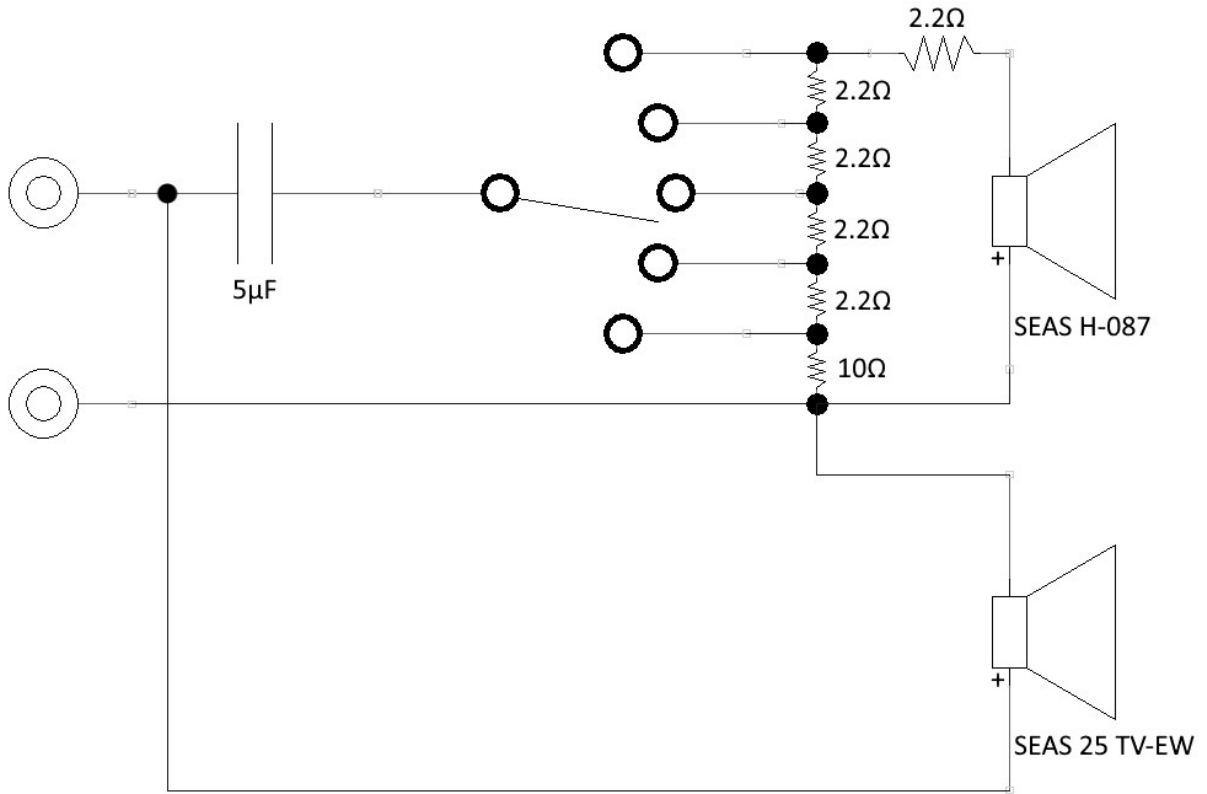
A-25

(Alternate Baffle, Tweeter Bevel)

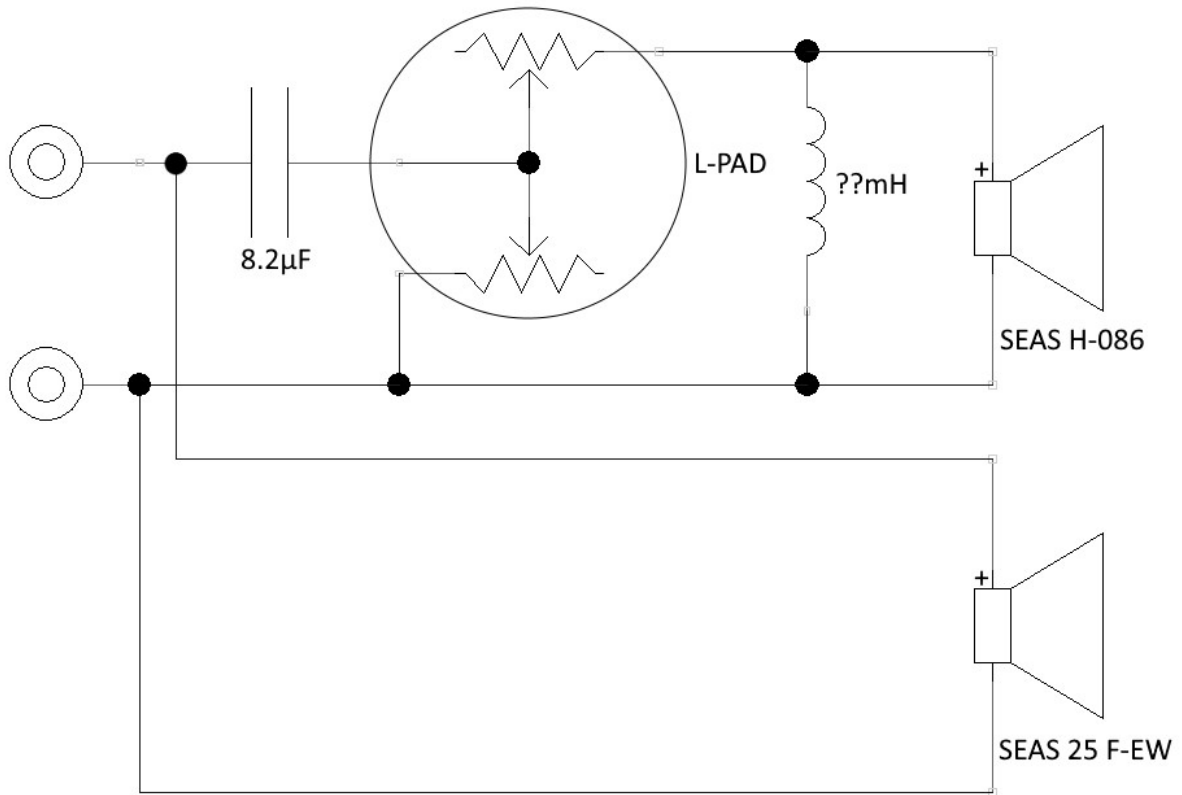


A-25

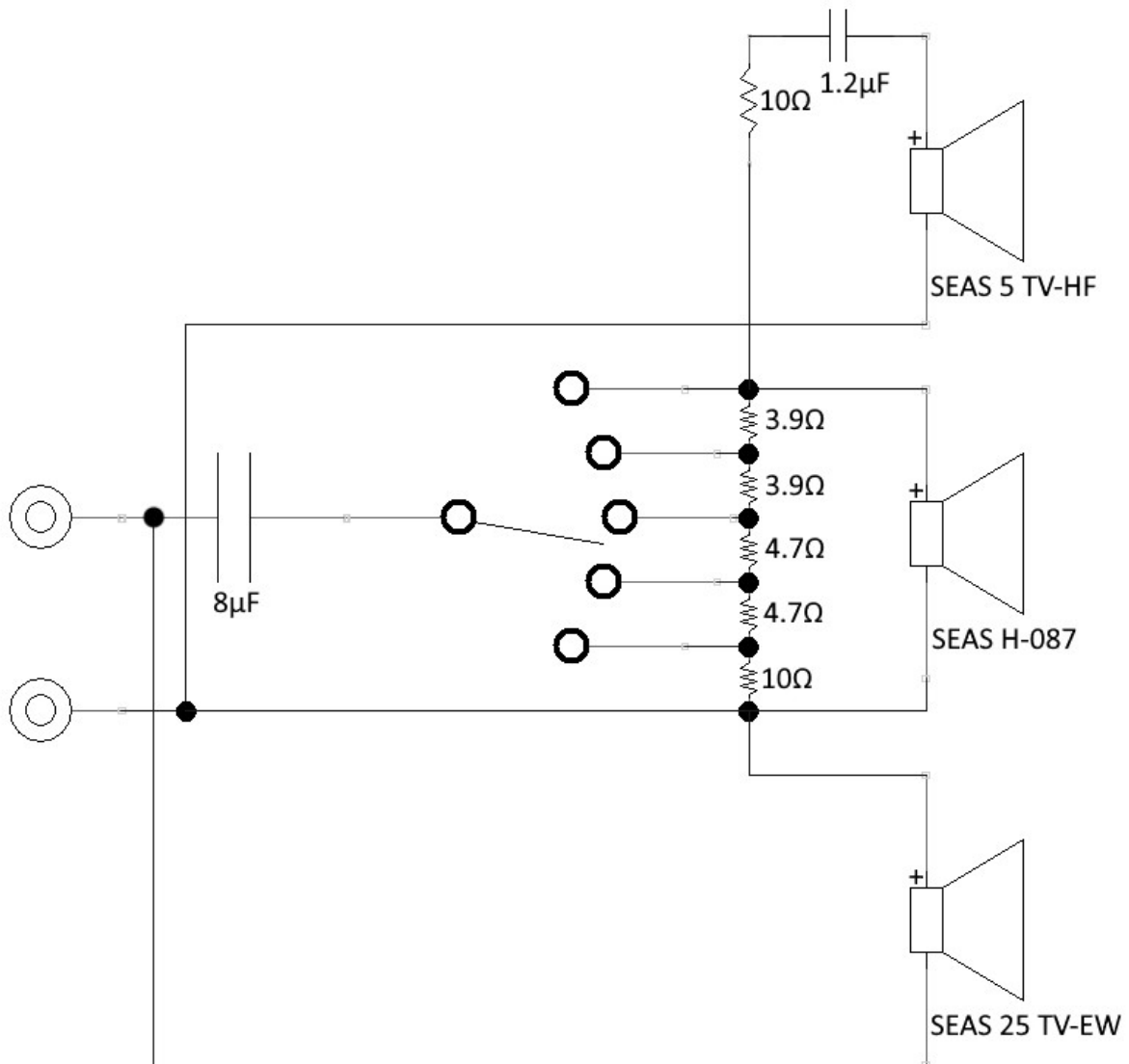
(Mid-Production and Later)



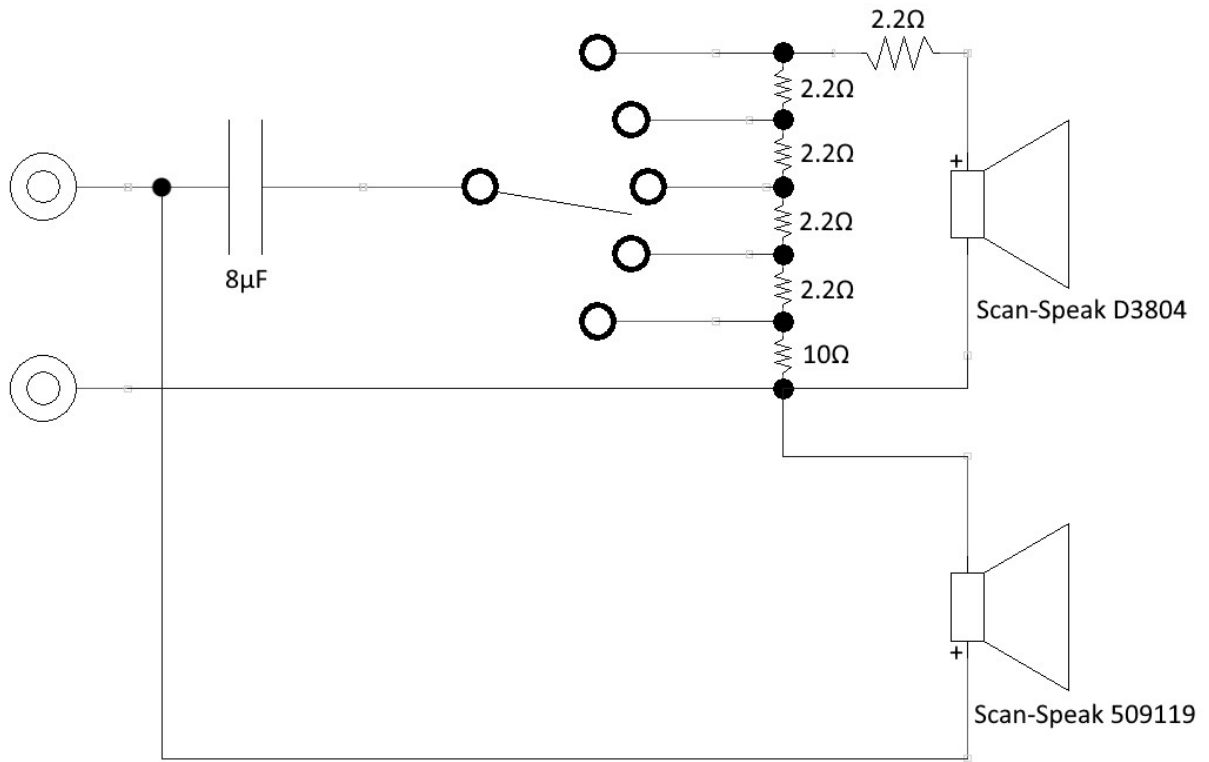
A-25 Mark II



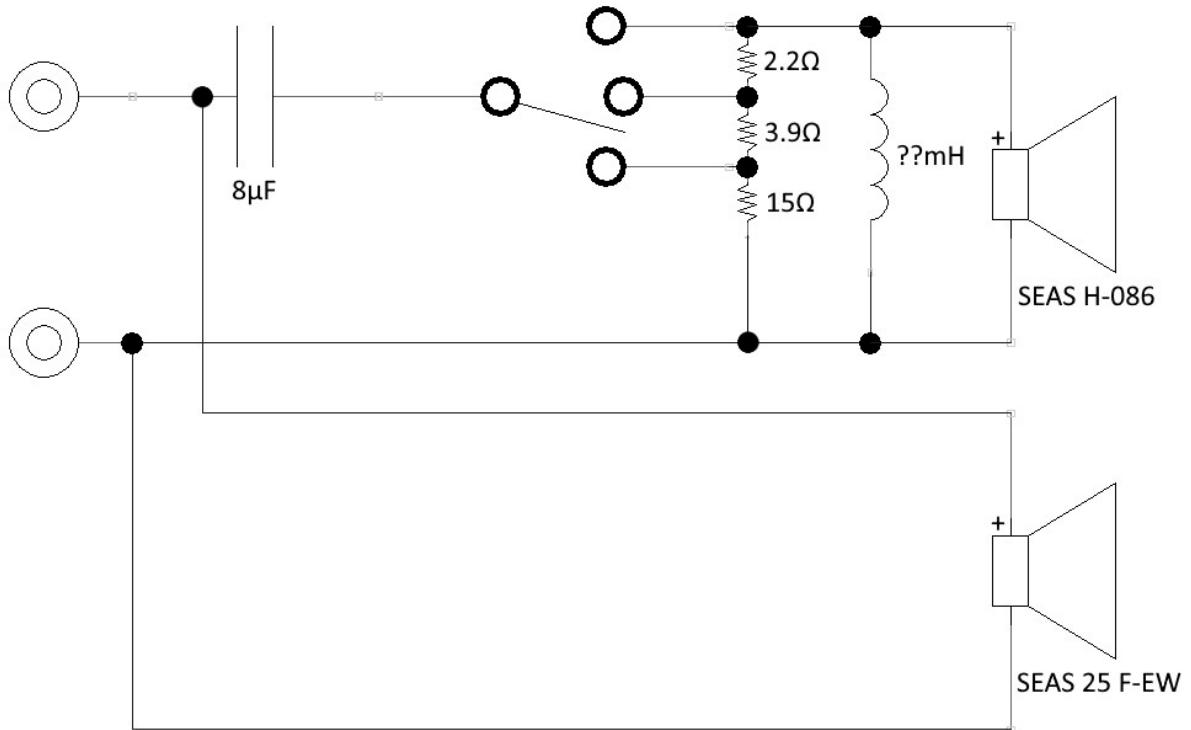
A-25 MkII



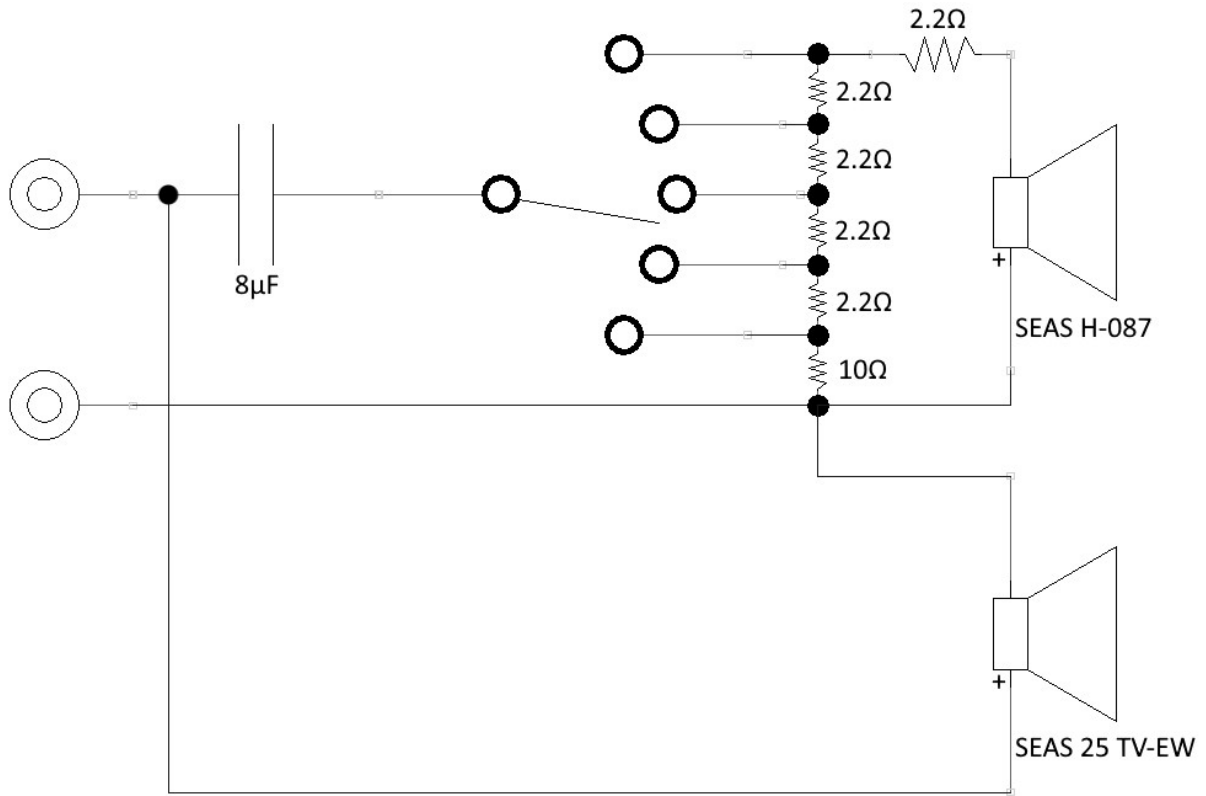
A-25XS



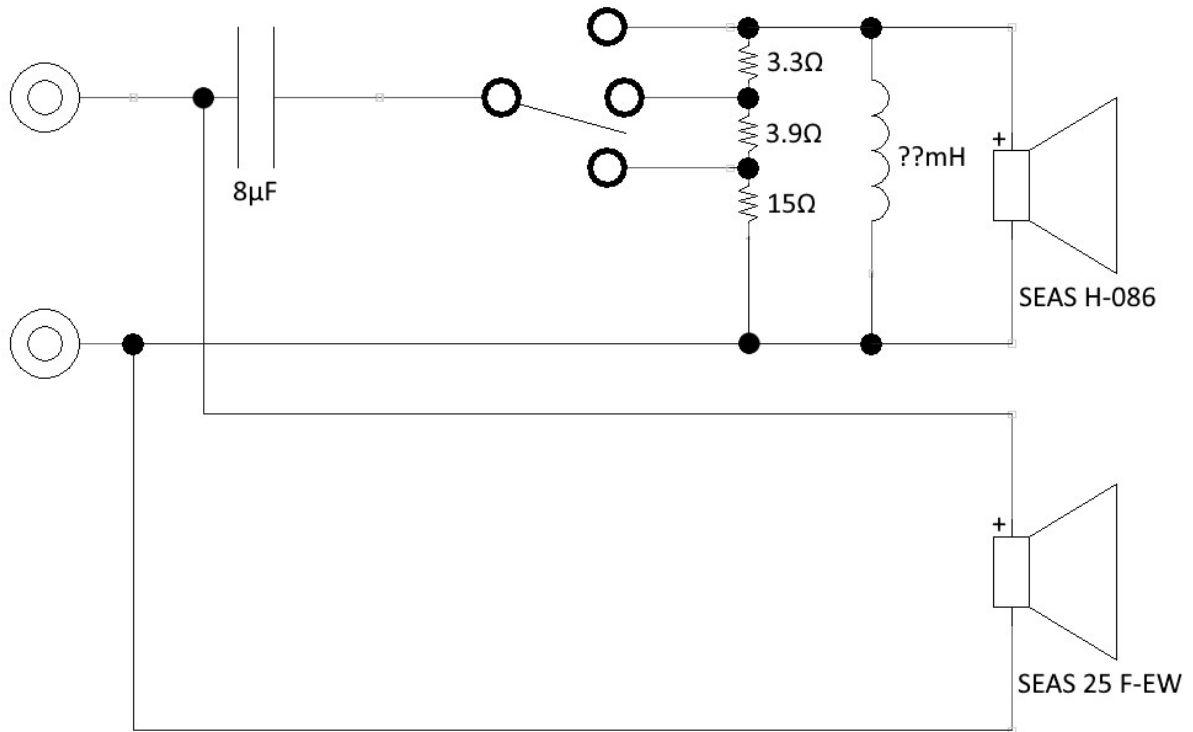
A-25XL



A-35

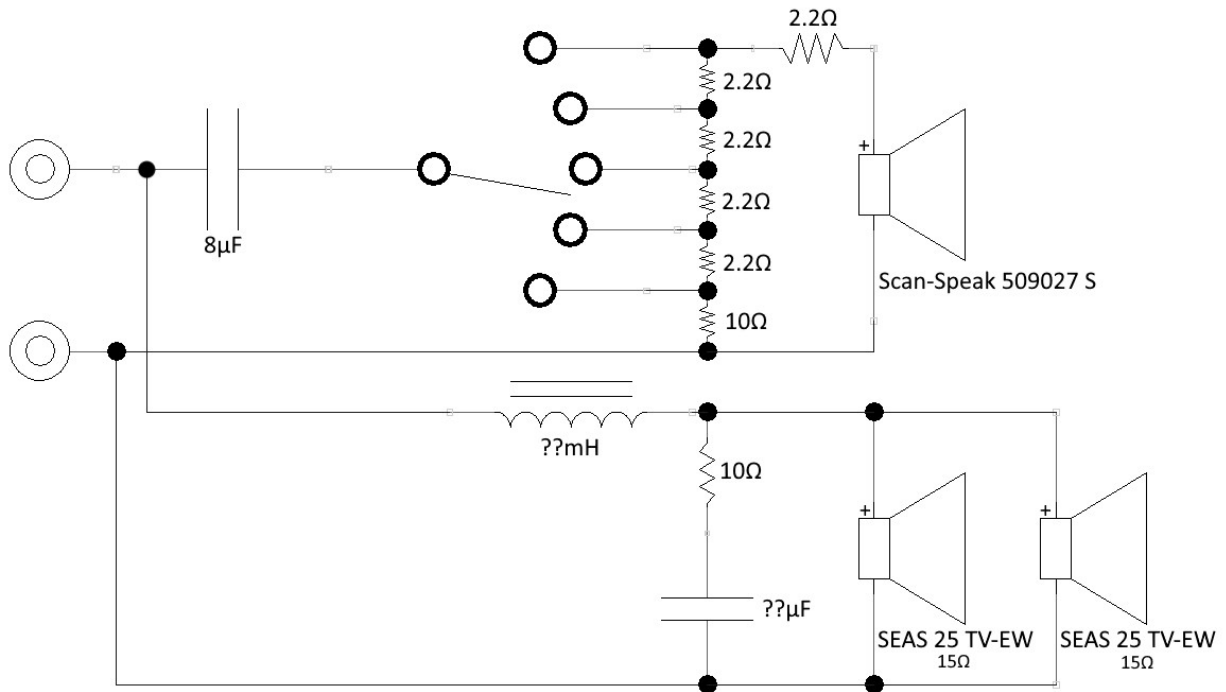


A-40XL



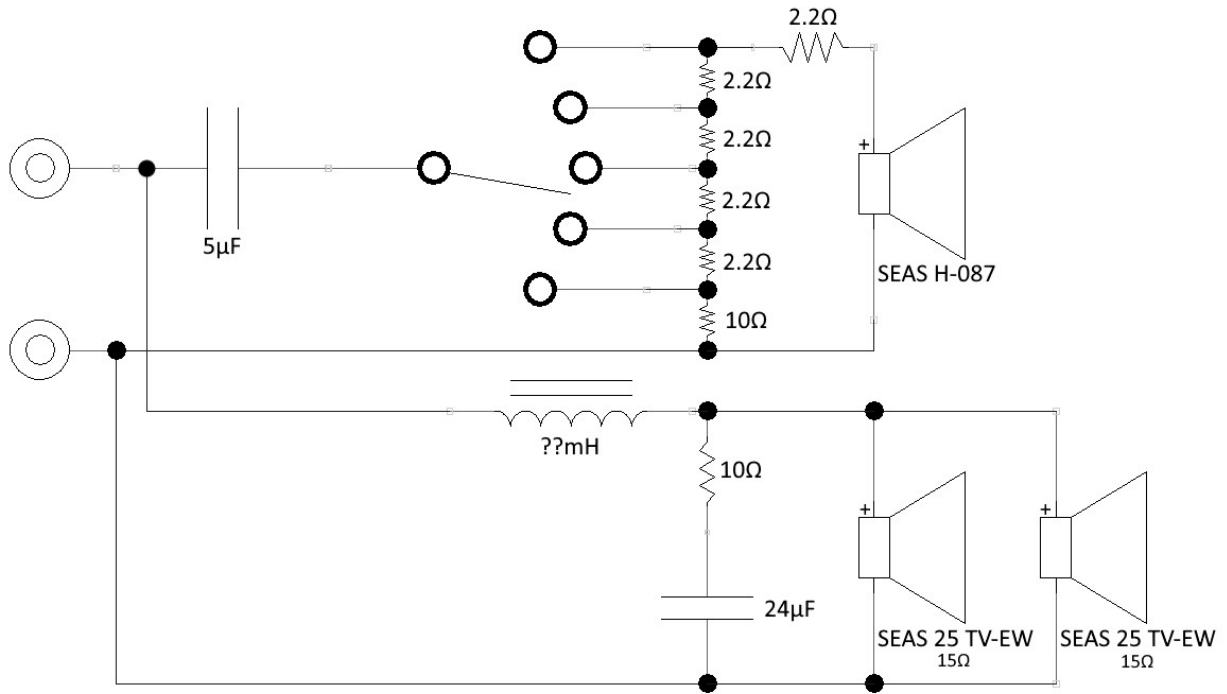
A-50

(SEAS Woofer, Scan-Speak Tweeter)



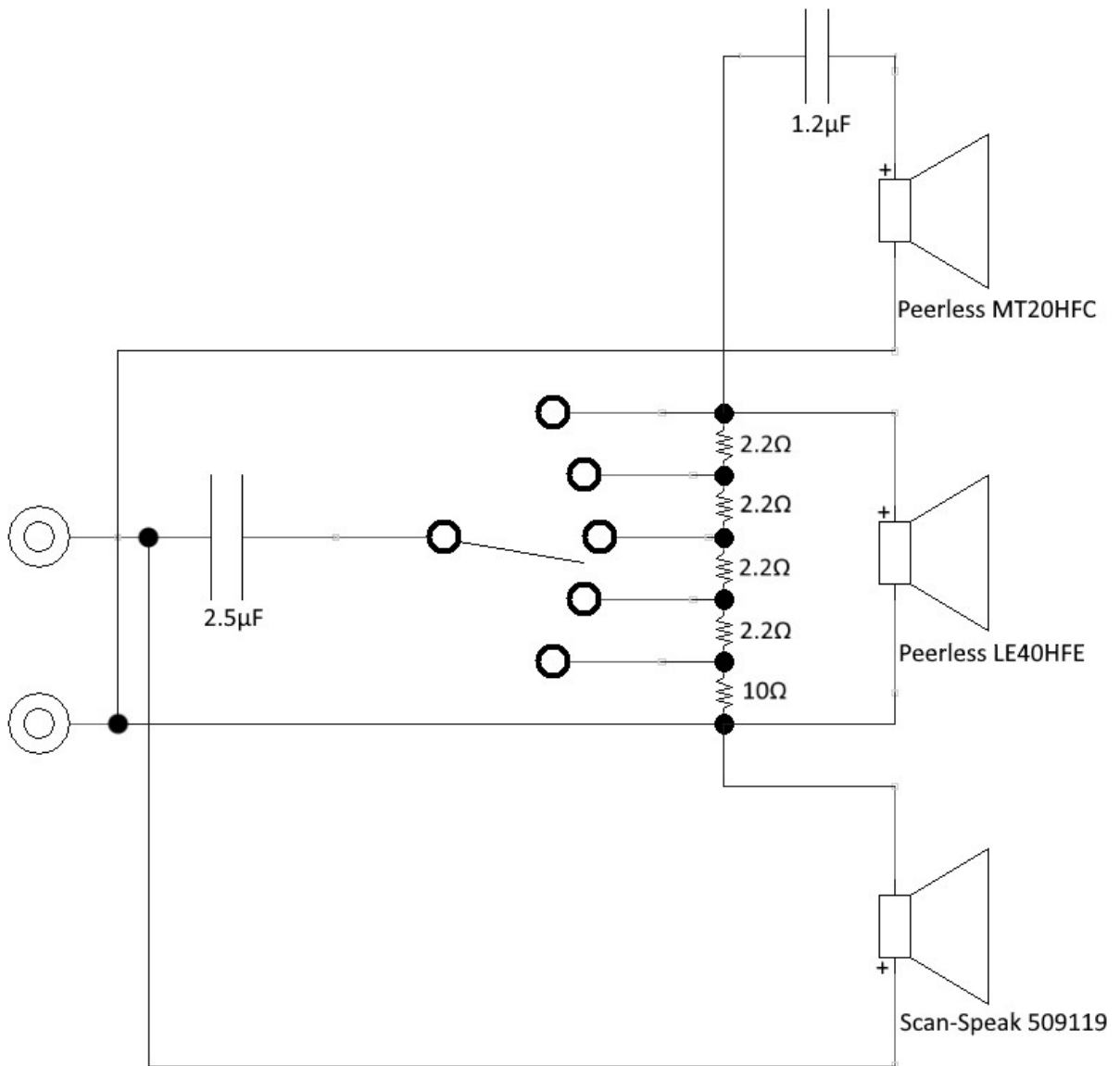
A-50

(Mid Production and Later)



M-25x

(Scan-Speak Variant)

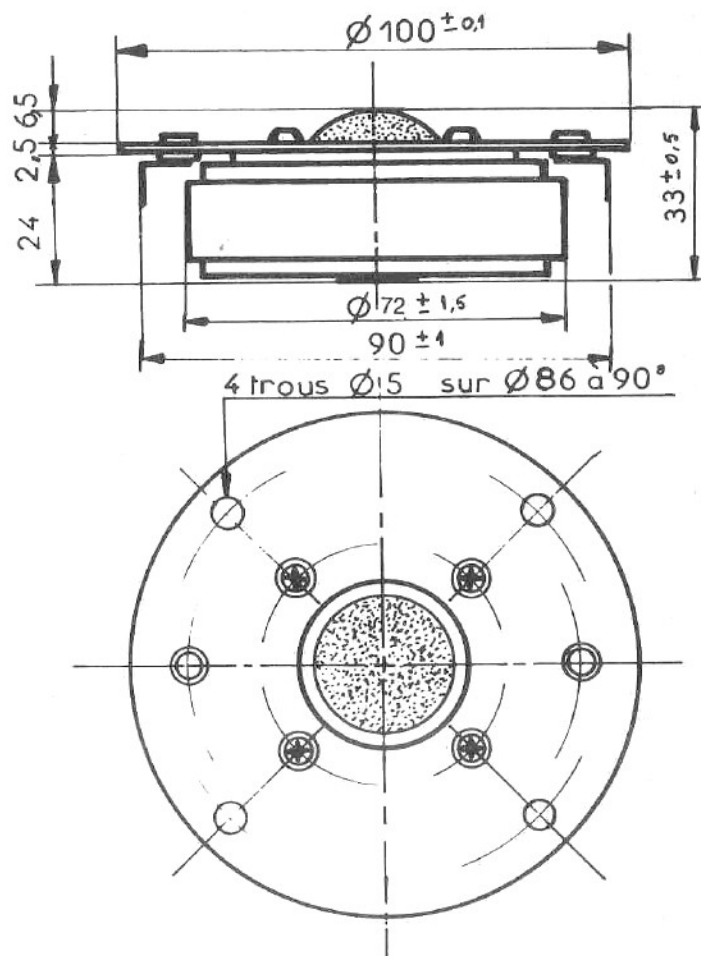
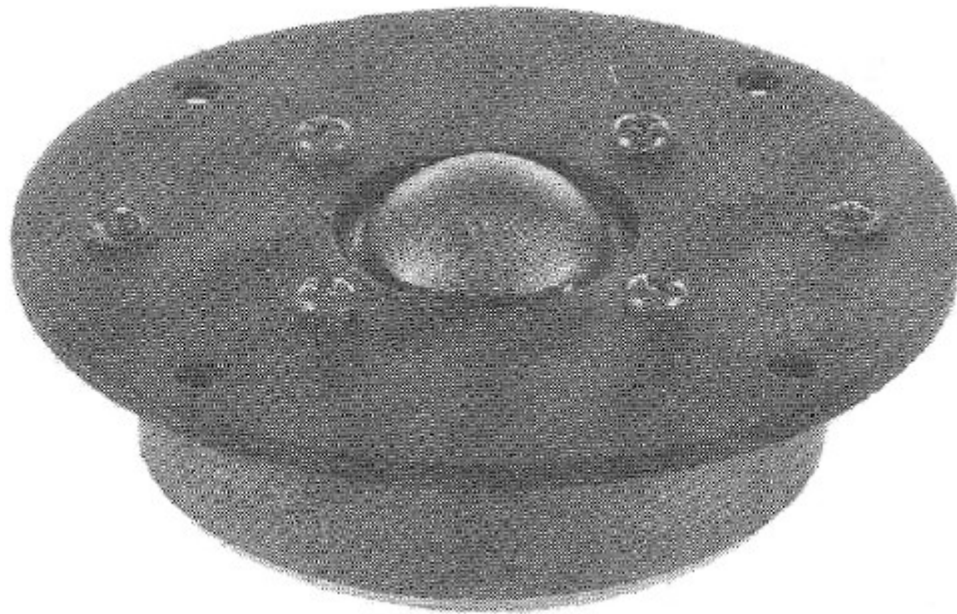


Driver Parameters

Tweeters

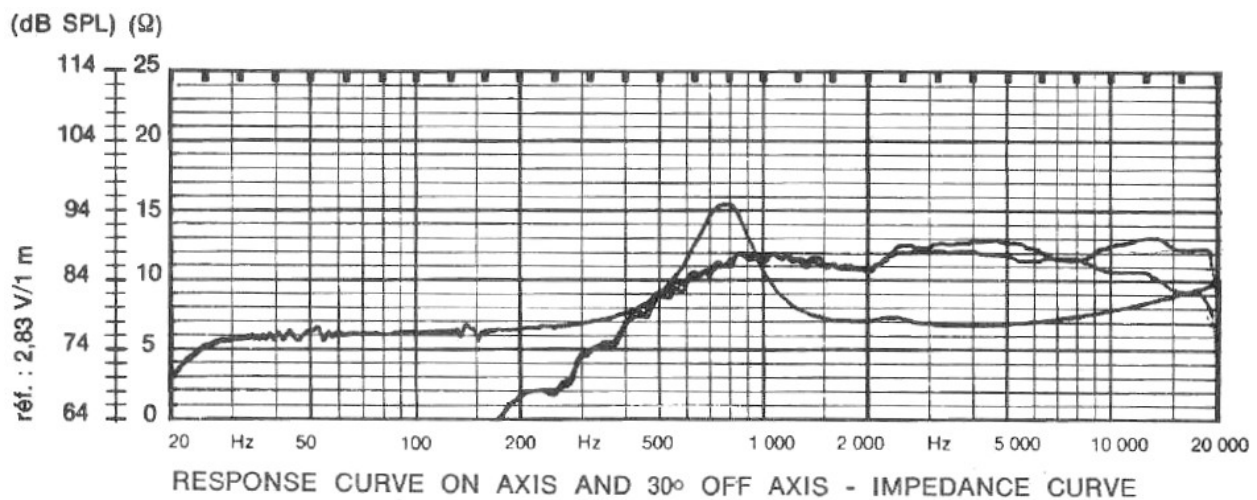
Audax (Polydax)

HD100D25



Audax (Polydax) HD100D25

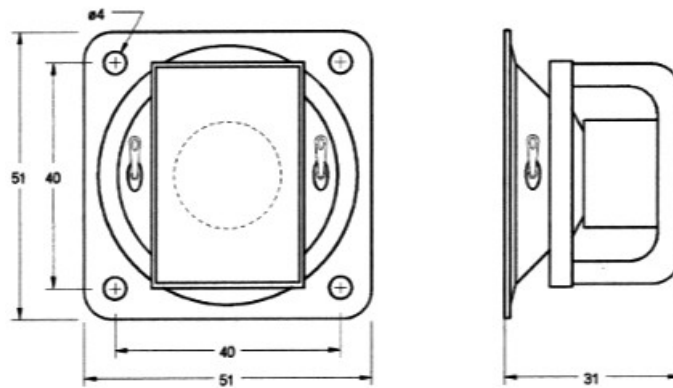
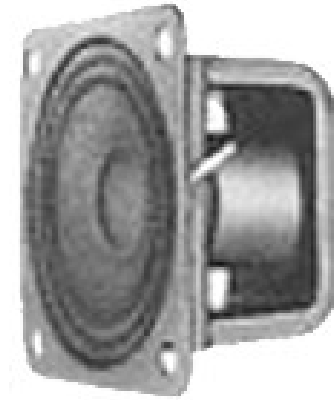
Parameter	Value
Impedance (Nominal, Z)	8Ω
Impedance (Minimum, 4kHz, Z_{min})	6.8Ω
DC Resistance (Re)	5.8Ω
Voice Coil Inductance (L)	75μH
Resonant Frequency (Fs)	800Hz ±120Hz
Moving Mass (Mms)	0.325·10 ⁻³ kg
Emissive Diameter of the Diaphragm (D)	0.028m
Effective Piston Area (Sd)	0.62·10 ⁻³ m ²
Voice Coil Diameter (d)	25.4mm
Voice Coil Former	Aluminum
Voice Coil Length (h)	3mm
Voice Coil Layers (n)	1
Flux Density (B)	1.47T
Flux in the Gap (Ø)	0.352·10 ⁻³ Wb
Magnetic Energy (W)	0.135Ws
Force Factor (BL)	2.97NA ⁻¹
Gap Volume (V_g)	0.157·10 ⁻⁶ m ³
Height of the Gap (H_g)	3mm
Diameter of the Magnet (ØA)	72mm
Height of the Magnet (B)	16mm
Weight of the Magnet	0.24kg
Mass of the Speaker	0.53kg
Characteristic Efficiency Level (1W, Pink Noise, Weighted, η)	89dB
Power Handling (Nominal, 5kHz)	50W
Acceleration Factor (Γ)	9138ms ⁻² A ⁻¹



Peerless

MT 20 HFC

1.5" cone tweeter used in M-25x.



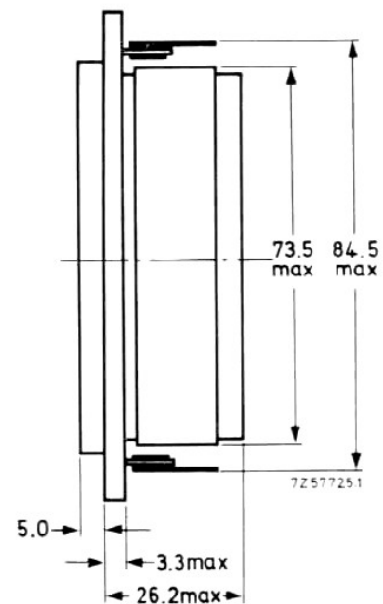
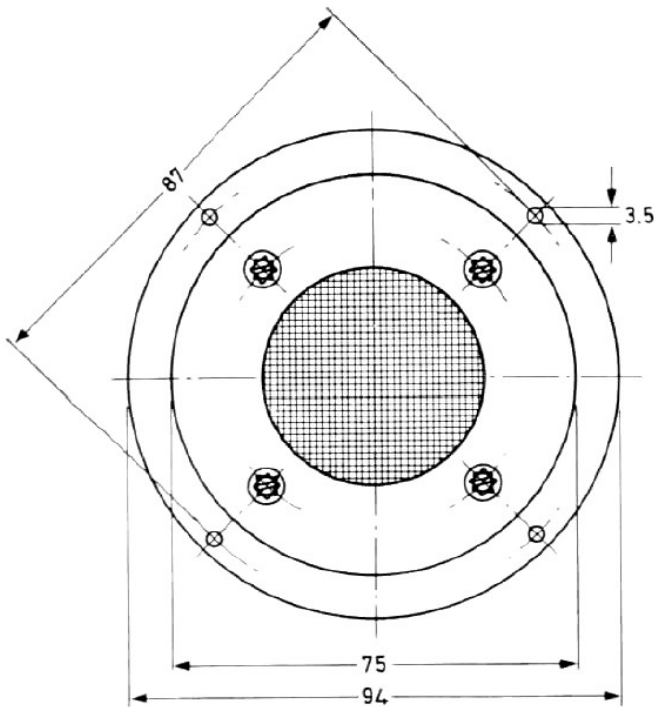
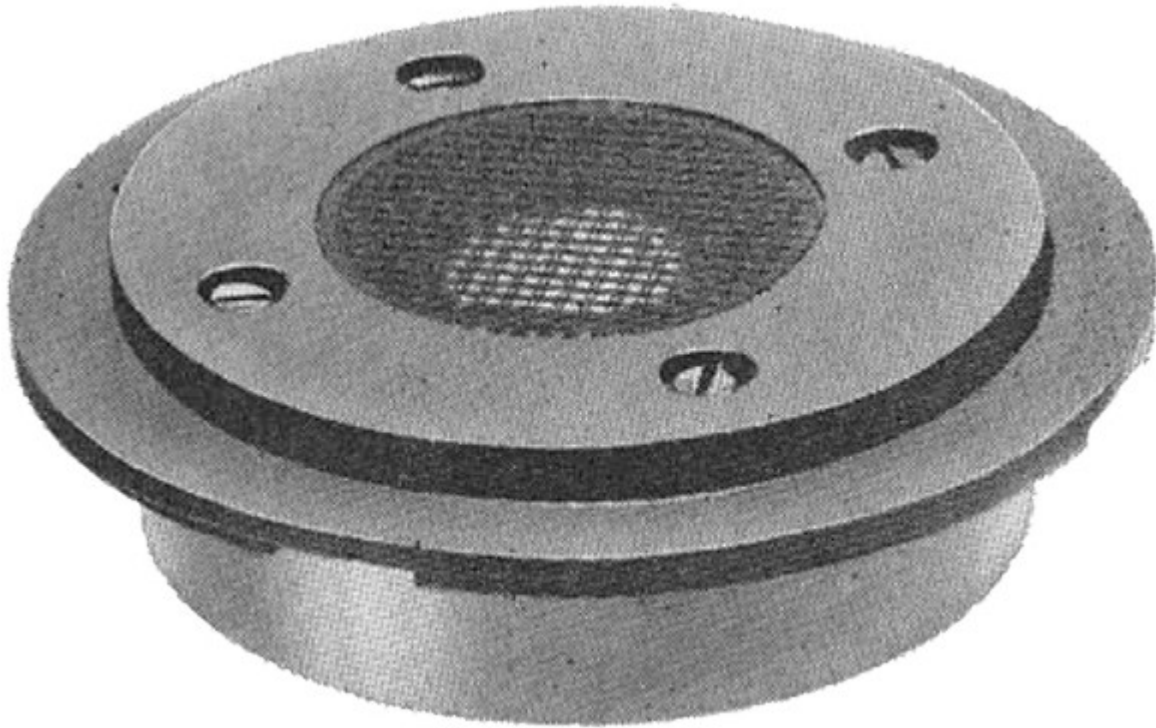
Peerless MT 20 HFC

Parameter	Value
Cone Diameter	42mm
Frequency Range	3000-18000Hz
Power Handling	1W
Voice Coil Diameter	12mm
Flux Strength	12000 Maxwells
Resonant Frequency	1600Hz
Diameter	51mmx51mm
Depth	32mm

Philips

AD0160/T8

1" polycarbonate dome tweeter employed in the A-25 when the SEAS H087 and Scan-Speak D3804 were unavailable.

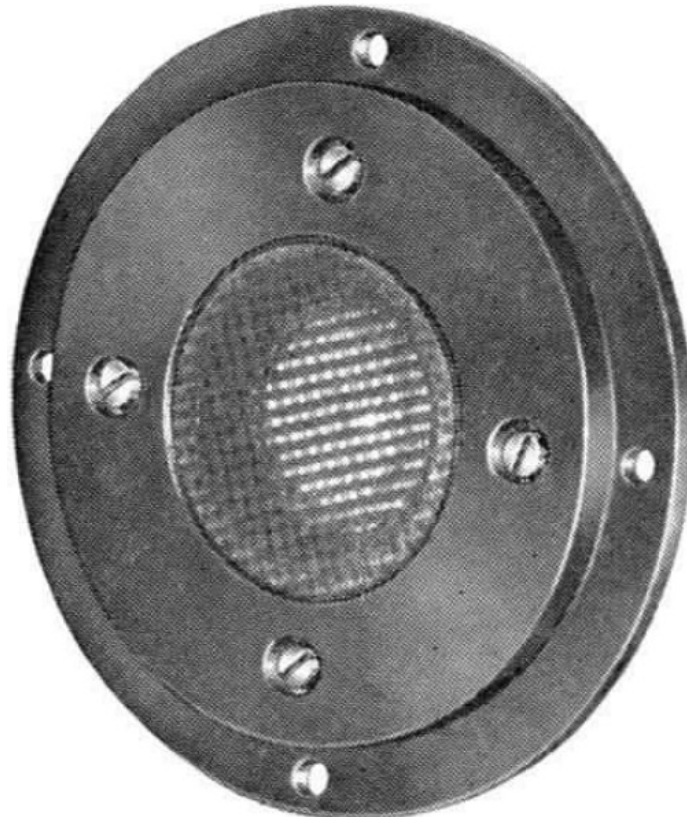


Philips AD0160/T8

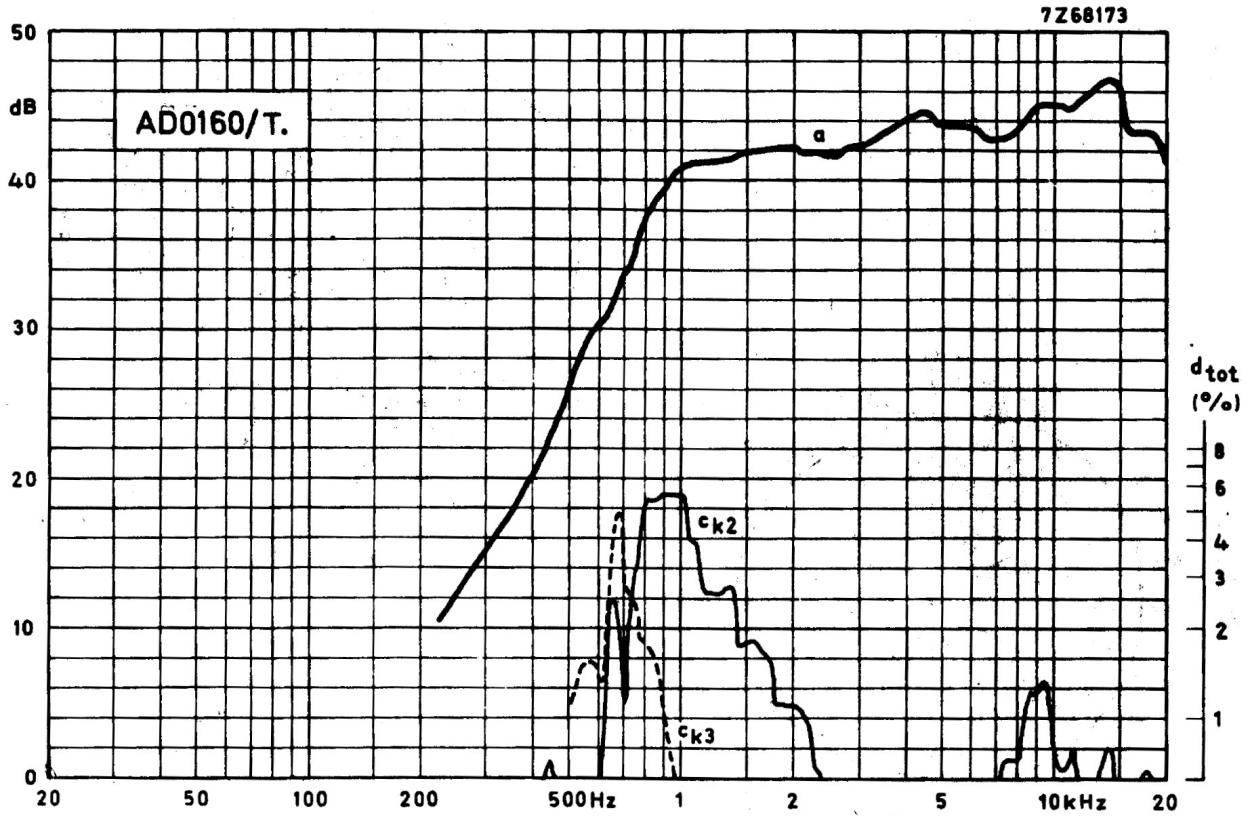
Parameter	Value
Recommended Frequency Range	1500-22000Hz
Nominal Power	20W*
Nominal Power	40W**
Sensitivity	
Sensitivity (96dB/m, DIN 45500)	4W
Sweep Voltage	4.5V
Voice Coil Diameter	25mm
Voice Coil Height	3mm
Air Gap Height	3mm
Xmax	
Flux Density	1.2T
Energy in Airgap	110mJ
Voice Coil Inductance (L)	
Voice Coil Resistance (Re)	6.7Ω
Effective Diaphragm Area (Sd)	7cm ²
Moving Mass (Mms)	0.4g
Air Load Mass in Baffle	
Free Air Resonance (Fs)	1000Hz
Diameter	94.2mm
Depth	27mm
Weight	0.55kg
Magnet Material	Fxd
Magnet Weight	025kg

*Crossover frequency 1.6kHz, 12dB/octave.

**Crossover frequency 4.5kHz, 12dB/octave



Philips AD0160/T8



Philips AD0160/T8

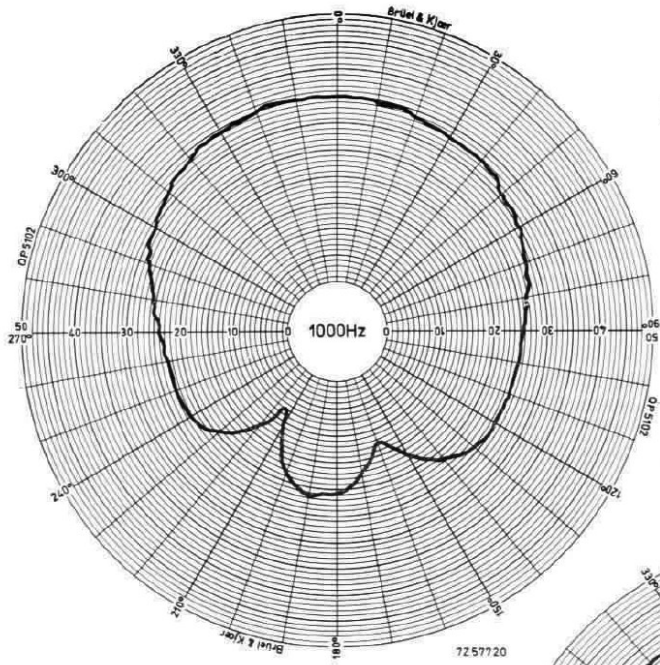


Fig. 8(a). Polar response at 1000 Hz.

Fig. 8(b).
Polar response at 3000 Hz.

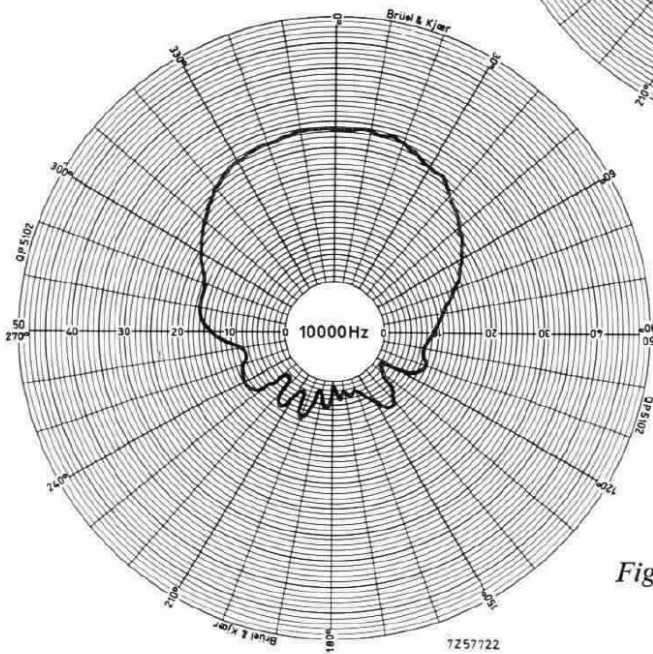
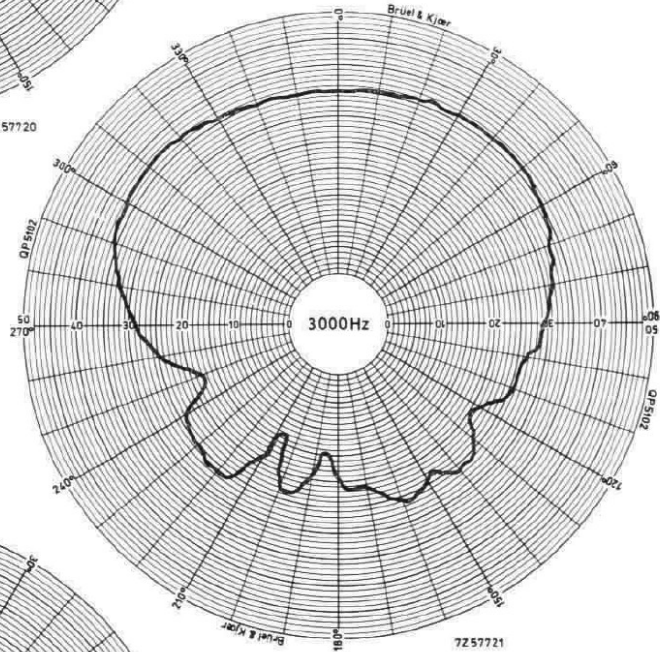


Fig. 8(c). Polar response at 10 000 Hz

Philips AD0160/T8

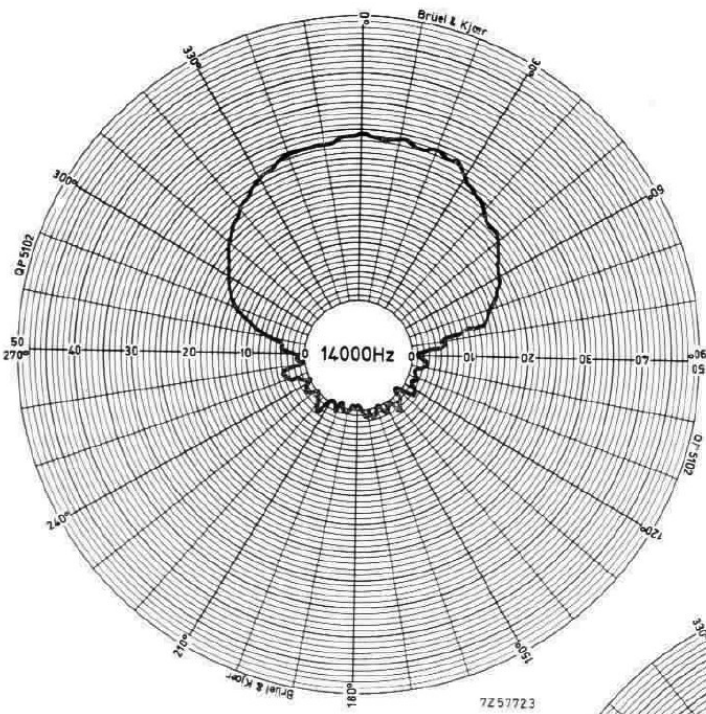
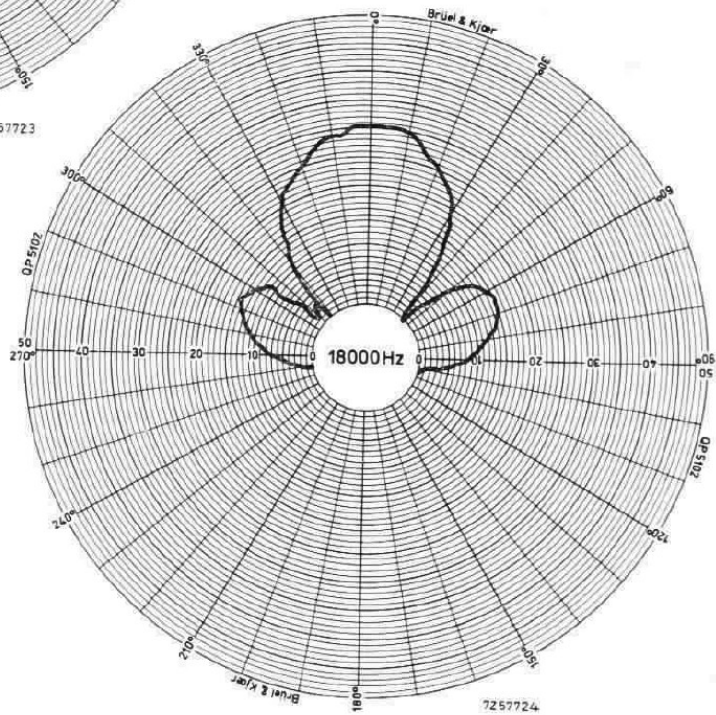


Fig. 8(d). Polar response at 14000 Hz.

Fig. 8(e).
Polar response at 18 000 Hz.



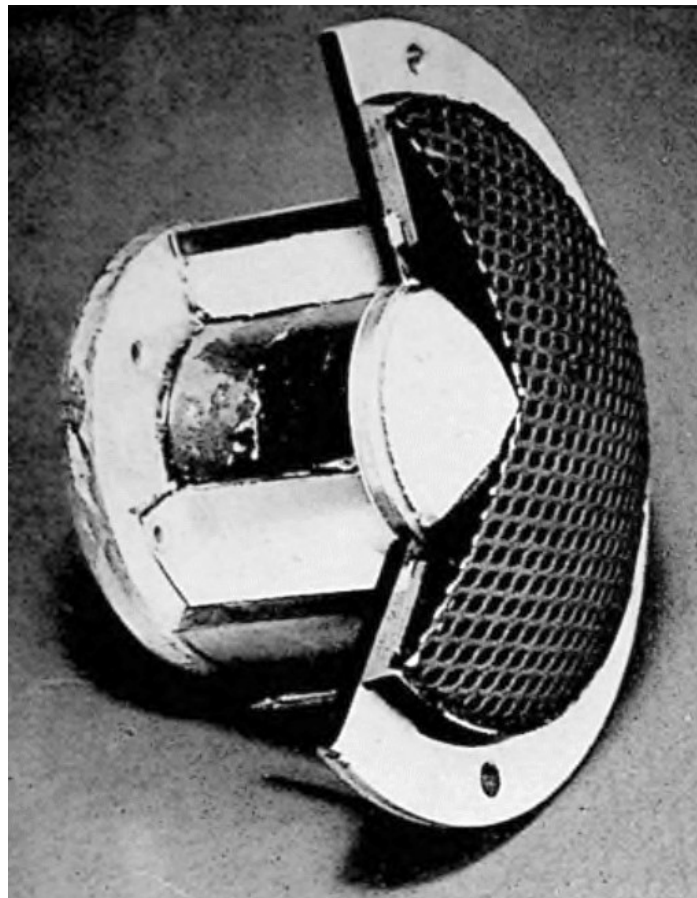
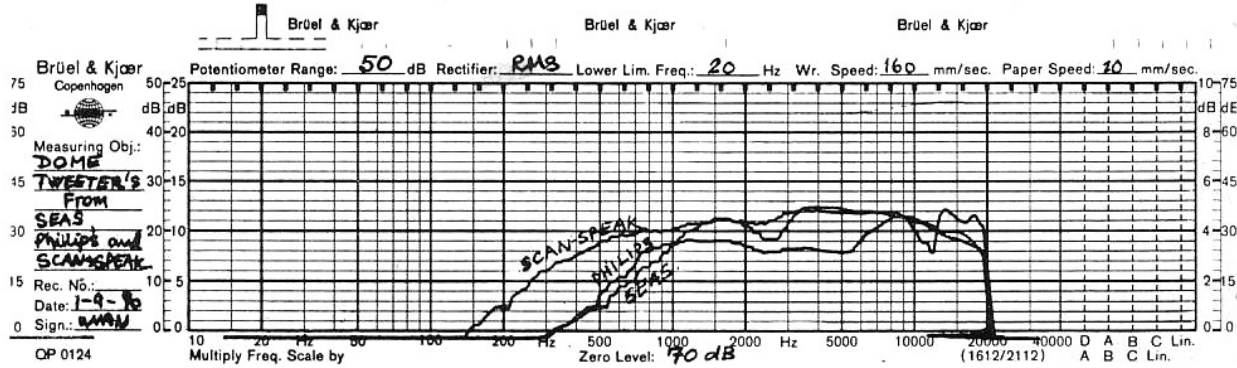
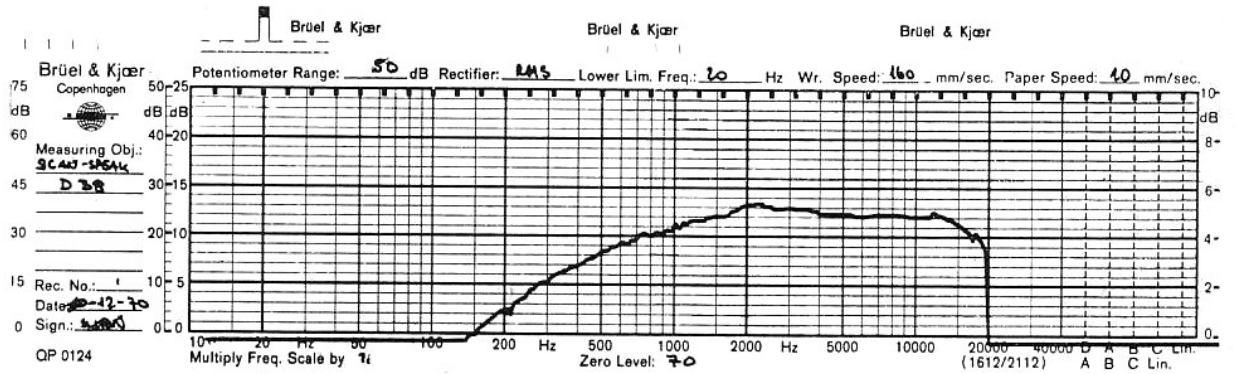
Scan-Speak

D-38 (D 3804, D 3806)

1.5" textile dome used in the A-25 and A-50 during supply issues with SEAS and the A-25X and A-25XS after. Labeled 509019 in the A-25X and 509027 in the A-50.



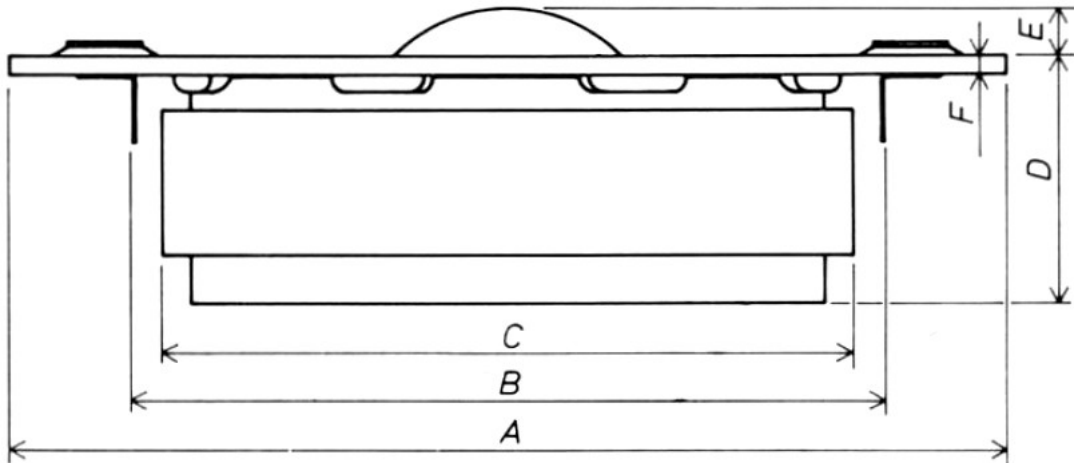
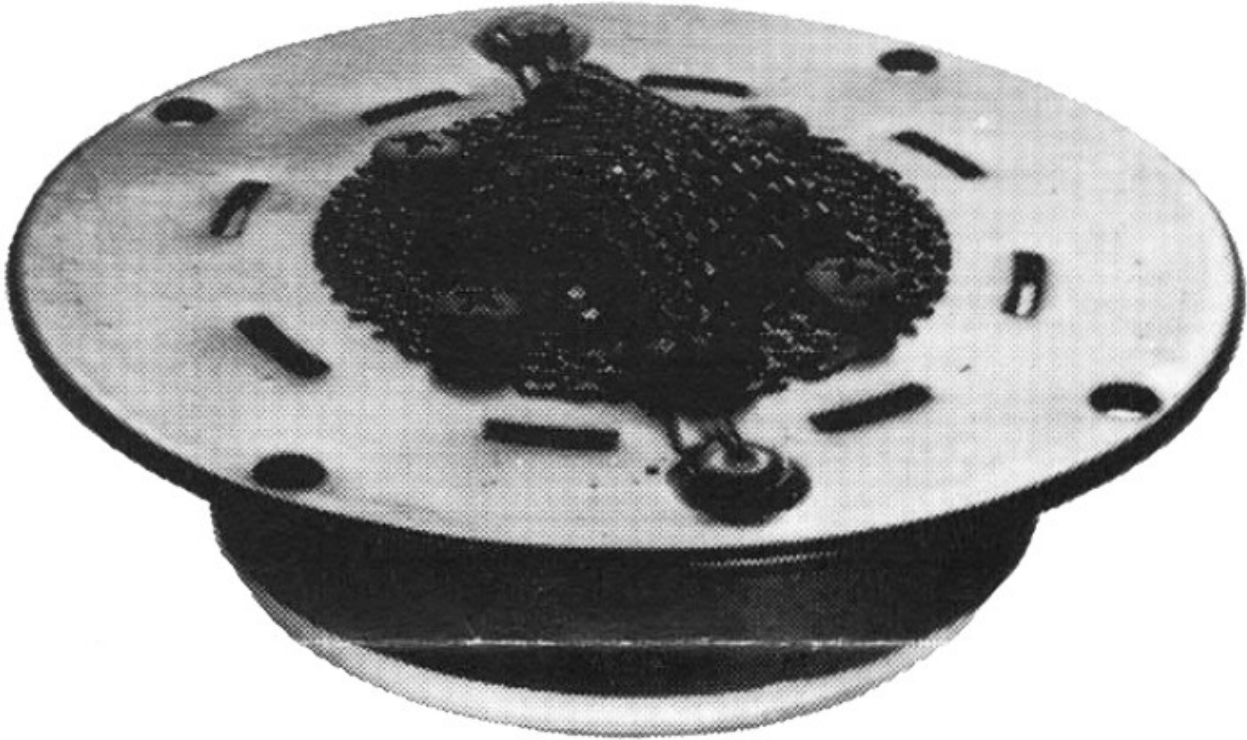
Scan-Speak D-38 (D 3804, D 3806)



SEAS

H086 (86 H)

1" soft dome tweeter employed in the A-25XL and A-40XL.



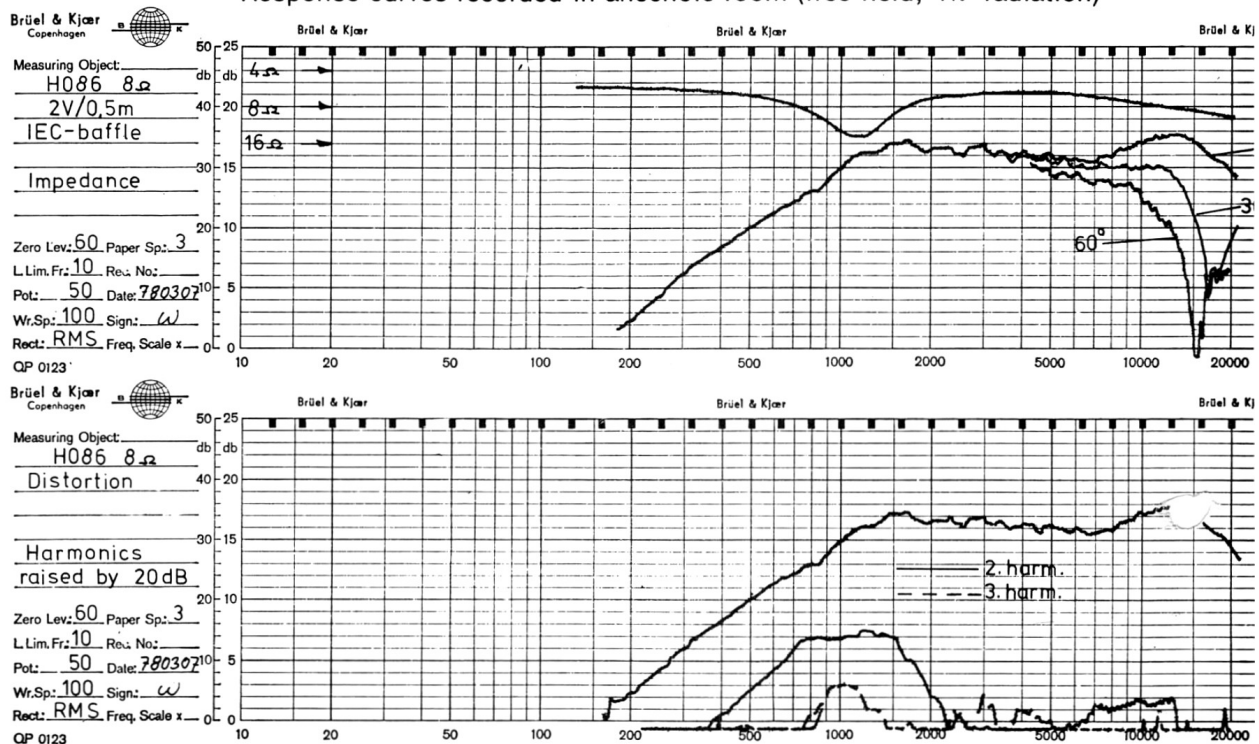
- A: \varnothing 104 mm
- B: 79 mm
- C: \varnothing 72 mm
- D: 26 mm
- E: 9 mm
- F: 2 mm

SEAS H086 (86 H)

Parameter	Value
Recommended Frequency Range	1500-25000Hz
Nominal Power (DIN 45573)	50W*
Music Power (DIN 45500)	
Sensitivity	89dB/W/m
Sensitivity (96dB/m, DIN 45500)	5.0W
Voice Coil Diameter	26mm
Voice Coil Height	3mm
Air Gap Height	2.5mm
Xmax	
Flux Density	1.6T
Force Factor (BL)	3.5Wb/m
Voice Coil Inductance (L)	
Voice Coil Resistance (Re)	5.0Ω
Effective Diaphragm Area (Sd)	7cm ²
Moving Mass (Mms)	0.4g
Air Load Mass in Baffle	
Free Air Resonance (Fs)	1000Hz
Weight	0.58kg
Magnet Weight	

*Crossover frequency 4kHz,6dB/octave.

Response curves recorded in anechoic room (free field, 4π -radiation)



SEAS

H087 (87 H)

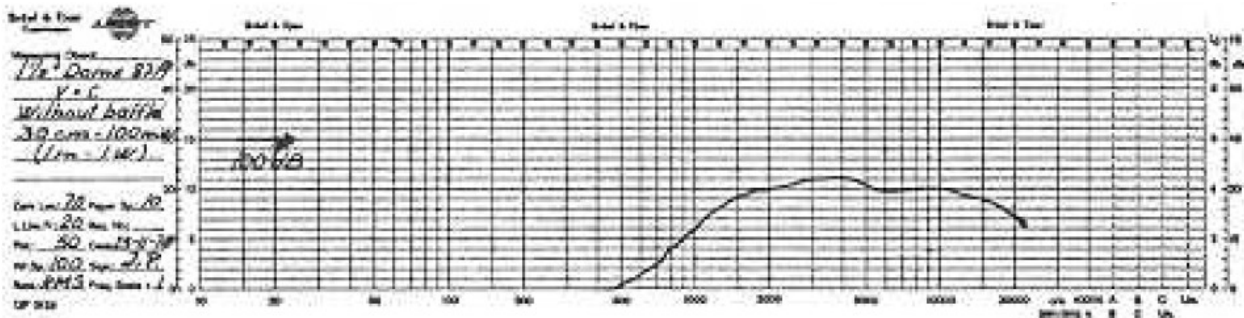
1.5" soft dome used in the majority of early Dynaco designs.



SEAS H087 (87 H)

Parameter	Value
Recommended Frequency Range	1500-20000Hz
Nominal Power (DIN 45573)	35W*
Music Power (DIN 45500)	70W*
Sensitivity	91dB/W/m
Sensitivity (96dB/m, DIN 45500)	3.2W
Voice Coil Diameter	39mm
Voice Coil Height	3mm
Air Gap Height	2.5mm
Xmax	
Flux Density (DIN 45578)	13000 Gauss
Force Factor (BL)	
Voice Coil Inductance (L)	
Voice Coil Resistance (Re)	
Effective Diaphragm Area (Sd)	
Moving Mass (Mms)	
Air Load Mass in Baffle	
Free Air Resonance (Fs)	1000Hz
Diameter	104mm
Depth	50mm
Weight	0.61kg
Magnet Weight	

*Crossover frequency 4kHz, 6dB/octave.



SEAS

5 TV-HF

2" cone tweeter used in the M-25x and A-25 MkII.



SEAS 5 TV-HF

Parameter	Value
Recommended Frequency Range	5000-20000Hz
Nominal Power (DIN 45573)	3W
Music Power (DIN 45573)	10W
Sensitivity	93dB/W/m
Sensitivity (96dB/m, DIN 45500)	2.0W
Voice Coil Diameter	13mm
Voice Coil Height	2.5mm
Air Gap Height	2mm
Xmax	
Flux Density (DIN 45578)	11500 Gauss (1T)
Gap Energy	30·10 ⁴ ERG MWS
Force Factor (BL)	1.5Wb/m
Voice Coil Inductance (L)	
Voice Coil Resistance (Re)	
Effective Diaphragm Area (Sd)	10cm ²
Moving Mass (Mms)	0.3g
Air Load Mass in Baffle	
Free Air Resonance (Fs)	900Hz
Mechanical Suspension Resistance (Rms)	
Vas	
Qms	
Qes	
Qts	
Recommended Enclosure Volume (Closed)	
Frame Diameter	52.5mm
Depth	33mm
Weight	0.135kg
Magnet Weight	

United Speaker Systems

HT-160-1

1.5" textile dome used in the A-25VW.



Midranges and Woofers

Peerless

L 100WG

10" cone used in M-25x and A-25 (Peerless Woofer, Philips Tweeter).



Peerless L 100 WG

Parameter	Value
Cone Diameter	
Frequency Range	20-2500Hz
Power Handling	50W
Voice Coil Diameter	38mm
Flux Strength	65000 Maxwells
Resonant Frequency	20Hz
Magnet Weight	195g
Diameter	250mm
Depth	127mm

Peerless

LE 40 HFC

3.5" cone used as midrange in M25x.



Peerless LE 40 HFC

Parameter	Value
Cone Diameter	90mm
Frequency Range	1500-15000Hz
Power Handling	2W
Voice Coil Diameter	16mm
Flux Strength	14300 Maxwells
Resonant Frequency	1200Hz
Diameter	105mmx105mm
Depth	49mm

Scan-Speak

509119

10" woofer used in the A-25X and others.





SEAS

9 TV-LG

3.5" midrange used in the M-25x.



SEAS 9 TV-LG

Parameter	Value
Recommended Frequency Range	1000-20000Hz
Nominal Power (DIN 45573)	8W
Music Power (DIN 45573)	25W
Sensitivity	92dB/W/m
Sensitivity (96dB/m, DIN 45500)	2.5W
Voice Coil Diameter	19.5mm
Voice Coil Height	2.5mm
Air Gap Height	2.5mm
Xmax	
Flux Density (DIN 45578)	11500 Gauss (1T)
Gap Density	65·10 ⁴ ERG MWS
Force Factor (BL)	1.5Wb/m
Voice Coil Inductance (L)	
Voice Coil Resistance (Re)	
Effective Diaphragm Area (Sd)	34cm ²
Moving Mass (Mms)	0.9g
Air Load Mass in Baffle	
Free Air Resonance (Fs)	250-300Hz
Mechanical Suspension Resistance (Rms)	
Vas	
Qms	
Qes	
Qts	
Recommended Enclosure Volume (Closed)	0.3-1l
Frame Diameter	88mm
Depth	55mm
Weight	0.275kg
Magnet Weight	

SEAS

17 TV-GWB

6.5" woofer used in the A-10.



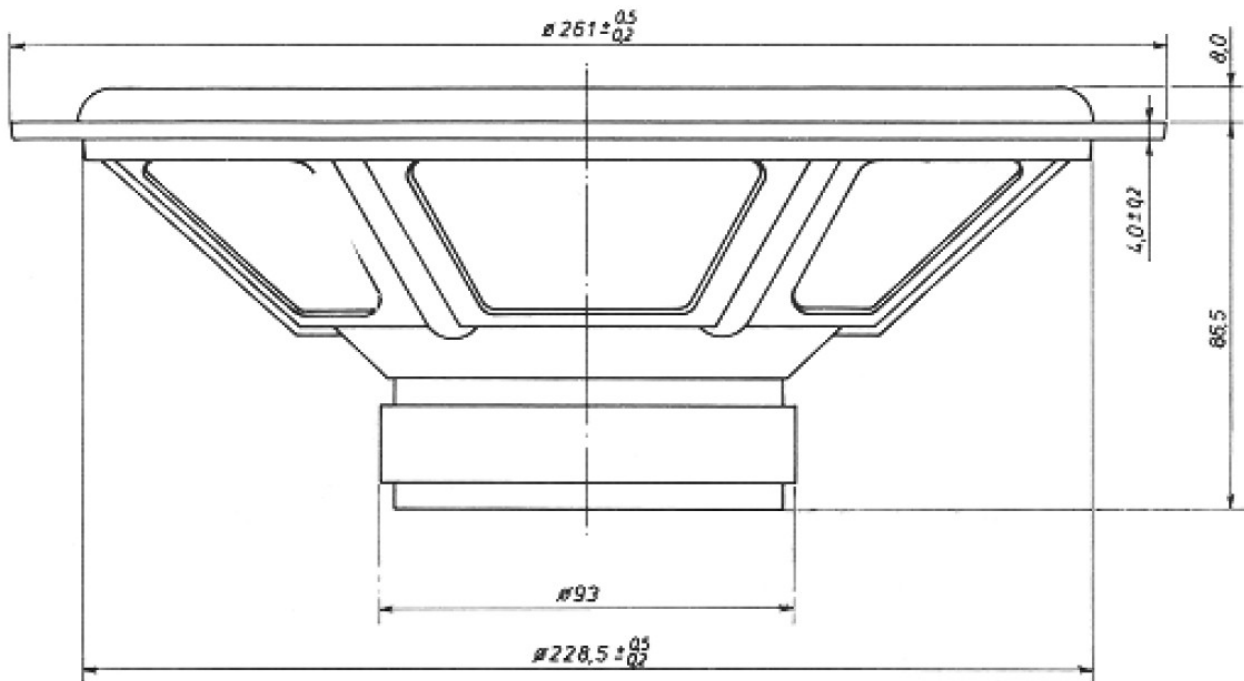
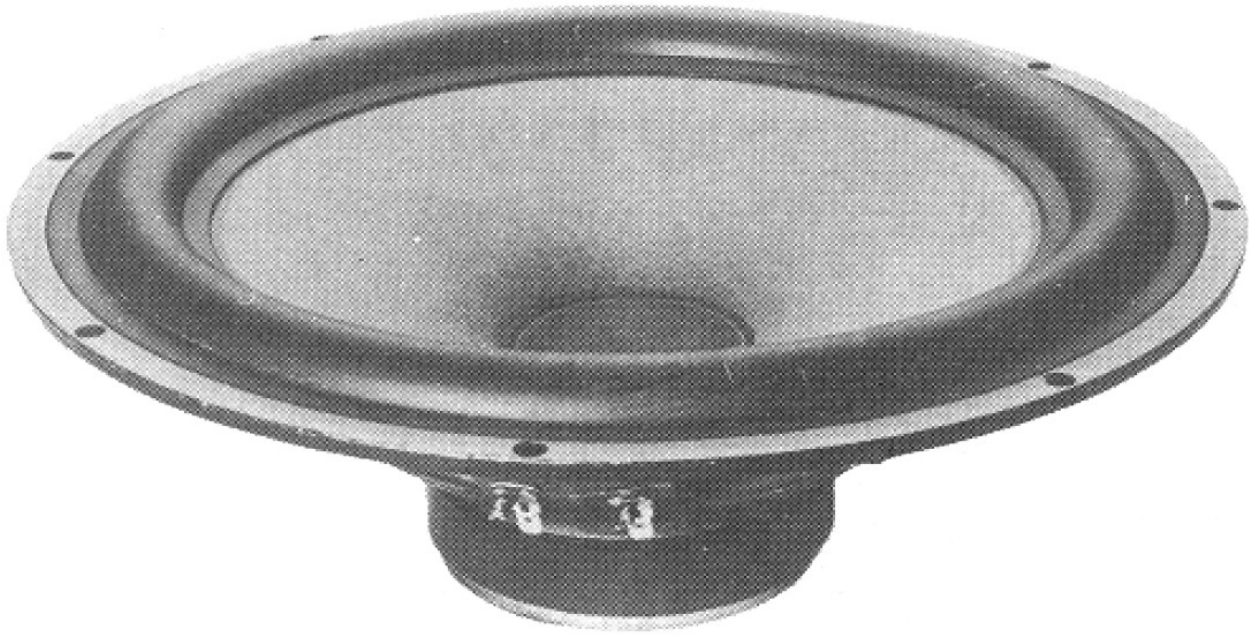
SEAS 17 TV-GWB

Parameter	Value
Recommended Frequency Range	40-2200Hz
Nominal Power (DIN 45573)	35W
Music Power (DIN 45500)	40W
Sensitivity	89dB/W/m
Sensitivity (96dB/m, DIN 45500)	5.0W
Voice Coil Diameter	26mm
Voice Coil Height	12mm
Air Gap Height	6mm
Xmax	
Flux Density (DIN 45578)	0.9T
Force Factor (BL)	5.5Wb/m
Voice Coil Inductance (L)	
Voice Coil Resistance (Re)	Ω
Effective Diaphragm Area (Sd)	140cm ²
Moving Mass (Mms)	8.5g
Air Load Mass in Baffle	1g
Free Air Resonance (Fs)	35Hz
Mechanical Suspension Resistance (Rms)	
Vas	
Qms	
Qes	
Qts	
Recommended Enclosure Volume (Closed)	7-15l
Frame Diameter	168mm
Depth	65mm
Weight	0.68kg
Magnet Weight	

SEAS

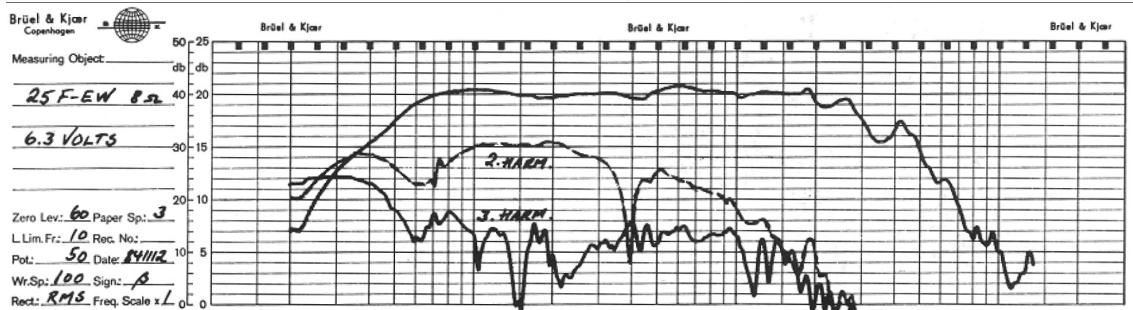
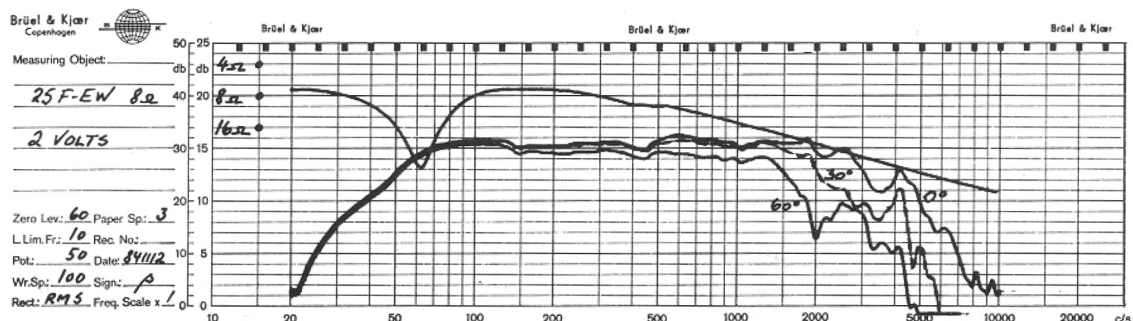
H085 25 F-EW

Woofer used in the A-25XL and similar models.



SEAS H085 25 F-EW

Parameter	Value
Recommended Frequency Range	30-1500Hz
Nominal Power (DIN 45573)	60W
Music Power (DIN 45500)	70W
Sensitivity	89dB/W/m
Sensitivity (96dB/m, DIN 45500)	5.0W
Voice Coil Diameter	39mm
Voice Coil Height	14mm
Air Gap Height	6mm
Xmax	4mm
Flux Density	0.75T
Force Factor (BL)	9.5Wb/m
Voice Coil Inductance (L)	2.6mH
Voice Coil Resistance (Re)	5.8Ω
Effective Diaphragm Area (Sd)	350cm ²
Moving Mass (Mms)	33g
Air Load Mass in Baffle	4g
Free Air Resonance (Fs)	26Hz
Mechanical Suspension Resistance (Rms)	1.6Ns/m
Vas	175l
Qms	3.8
Qes	0.39
Qts	0.35
Recommended Enclosure Volume (Closed)	25-40l
Weight	1.3kg
Magnet Weight	0.42kg



Sound pressure and distortion on axis. The distortion components are raised by 20 dB:

SEAS

25 TV-EW



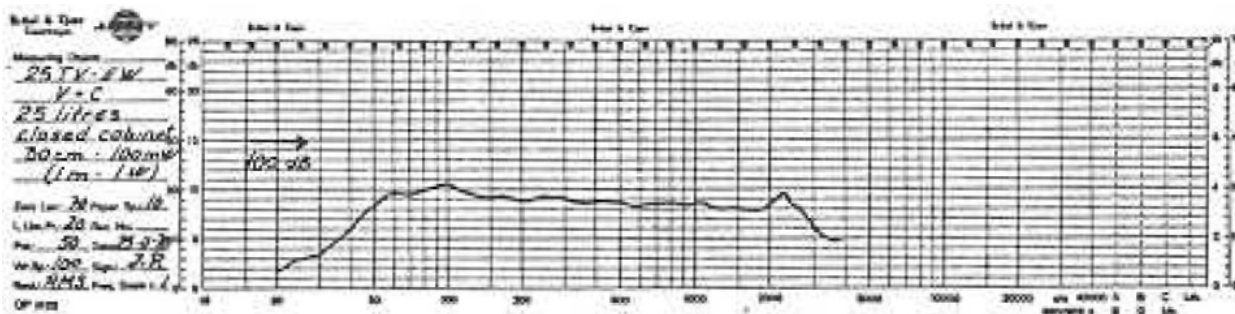
Standard Basket



Late Basket

SEAS 25 TV-EW

Parameter	Value
Recommended Frequency Range	30-1500Hz
Nominal Power (DIN 45573)	35W
Music Power (DIN 45500)	60W
Sensitivity	88dB/W/m
Sensitivity (96dB/m, DIN 45500)	6.3W
Voice Coil Diameter	39mm
Voice Coil Height	14mm
Air Gap Height	8mm
Xmax	3mm
Flux Density (DIN 45578)	5500 Gauss
Force Factor (BL)	0.8G/Ma
Voice Coil Inductance (L)	
Voice Coil Resistance (Re)	Ω
Effective Diaphragm Area (Sd)	285cm ²
Moving Mass (Mms)	30g
Air Load Mass in Baffle	
Free Air Resonance (Fs)	20-25Hz
Mechanical Suspension Resistance (Rms)	1.6Ns/m
Vas	175l
Qms	3.8
Qes	0.39
Qts	0.35
Recommended Enclosure Volume (Closed)	25-35l
Frame Diameter	248mm
Depth	102mm
Weight	0.88kg
Magnet Weight	



Very Early Label

Standard Label



15Ω SP Label

15Ω Standard Label