

Pioneer/TAD Swedish Reference

System Overview



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Above: One of the six Pioneer M90a power amplifiers

Left: One rack cabinet with the BSS FDS360 active crossover and the six Pioneer M90a power amplifiers. All units secured by brackets in the 19 inch rack mount for transportation and performance.

Below: The BSS FDS 360 active crossover network in the rack cabinet. Note the plastic cover securing all settings and thus eliminating the risk of being tampering with by non-authorized persons.



Comments

- All electronics are pre-installed and all signal cables connected in the rack cabinet
Each channel (L + R) shall only be connected to a signal source by means of the supplied RCA cable
- All cables are contained within the two rack cabinets; signalling, speaker and mains wiring
- Cables to all speaker units must be connected on-site; each speaker unit has its own colour marking which facilitates easy set-up and eliminating failure connection
- High quality XLR connections are being used for all speaker units with corresponding marking
- Speaker cables are High Quality, Oxygen Free Copper especially selected for the application
- All electronics are specified for 230 V AC 50 Hz utilizing IEC standards for plugs and connectivity. All electronics are main grounded

Speaker Units



Left: **TAD 1601a 16 inch bass** unit in its own cabinet. The bass reflex loading is especially designed to minimize turbulence for less distortion and improved performance.

The cabinet is especially made with 3-layers; 2 layers of selected chipboard attached together with Antiphon D1d damping material for minimum vibrations and less coloration. The enclosures were manufactured by a selected company having the pressing machine required to build the challenging design.

Each bass unit has external handles for easier set-up and dismounting.

All enclosures are professionally painted using Porsche original car laquer; “alabaster” (light yellow).



Above Left: The **TAD TM-1201** in a separate enclosure to minimize vibrations from the bass unit. The speaker is operated in its optimum frequency range to match the bass speaker as well as the radiation pattern from the upper midrange units.



Above, right: Upper midrange and tweeter units. The **TAD-ET 703 horn tweeter** has an impressive efficiency of 107 dB/W. To match this efficiency, the **Pioneer DS-049A Midrange Tweeter** was selected, also for their impressive sound performance. By “stacking” these units on top of each other, a very wide sound field is created in the horizontal plane. It also limits the radiation in the vertical plane to minimize reflections from floor and ceiling. Hence, a desired radiation pattern is achieved towards the listening area.

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The specially designed “**Tilting Function**” enables both the TAD TM-1201 lower midrange and the “tower” to be individually set. This also facilitates optimum radiation pattern and alignment towards the listening environment.

Flight Cases for Transportation



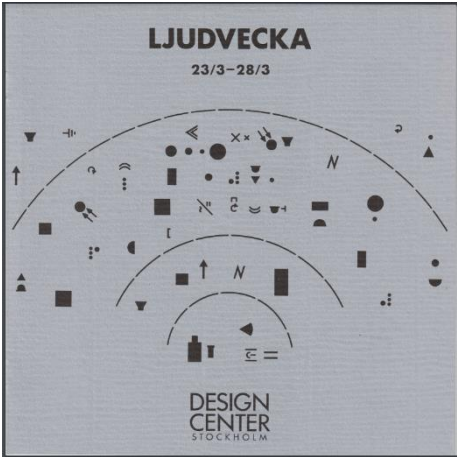
In total, there are five (5) flight cases. These are rugged, professional flight cases with roller bearing wheels. All cases are custom made in Sweden by the company ‘Holmberg Cases’ for the Pioneer TAD Swedish Reference.

All speaker units have their own dedicated flight cases. All units are securely stowed with internal soft material to minimize and movement or damage during transportation.

Flight Cases – Content and Numbering

| Flight Case # | Content | Remark |
|---------------|--|--|
| 1 | Bass Unit – Left | Heavy – two persons required for lifting using the attached metal handles. |
| 2 | Bass Unit – Right | See above |
| 3 | Mid and Tweeter Units – Left and Right | Mounting devices included: Rigging screws for the tilting function of the Mid and tweeter units, Black anodized mounting screws and one Allen key. <u>Note:</u> Two extra Pioneer DS-049A Midrange Speaker units are supplied as spares. These are new units in original packaging |
| 4 | Rack cabinet – Left | Front and rear sides to be dismantled – then ready for operation. |
| 5 | Rack Cabinet – Right | See above |

Trade shows and Exhibitions



The Pioneer/TAD Swedish Reference has been on display on selected exhibitions and trade shows for promoting the Pioneer HiFi products. One occasion was a dedicated exhibition at the “Design Center” in Stockholm, Sweden.

The acoustic environment was especially prepared for the occasion. The theme conveyed was that acoustics and design belong together. The event resulted in a lot of attention. The exhibition showed how exceptionally good reproduced music could sound if putting attention to all details.



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Stockholm Design Center, continued:



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Finetuning the Pioneer/TAD Swedish Reference before display at a Trade Show



Presentation of the new Pioneer line-up of HiFi products utilising the Pioneer/TAD speakers

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The Pioneer/TAD Swedish Reference on display at a Sound & Vision Exhibition in Stockholm, Sweden