



MODULE DESIGNS

A typical Sigma module is shown alongside in the photograph.

This is a rigid mechanical assembly which supports the three major types of components: 1) panel controls. 2) audio connectors. 3) electronic components.

Modules are secured in the frame at each end and may be removed for service attention. On most Sigma modules any internal trim needing routine attention is accessible from the front panel.

The circuit board assembly uses laminated epoxy glass fibre material of high strength. The module panel is aluminium alloy, paint finished and screen printed. The panel is grounded for screening purposes as are all potentiometer cases.

Moulded brackets secure the panel to the pcb and take mechanical strain. The internal edge connector engages in the chassis half which remains fixed in the chassis at all times. The chassis busbar assembly which is 0.050" insulation displacement cable and mating contacts are gold finished. Components loaded onto the circuit board are identified in the technical manual and circuit diagrams show all internal and external connection points in addition.

While audio connection to the patch bay and internal equipment are mostly balanced the circuit design within the modules is unbalanced and yet careful design has achieved system performance results of a high standard capable of excellent results when compared with hardware sold at very much higher prices.

Sigma consoles represent such excellent value for money because AHB keeps the frame and module hardware costs under control and not because the signal path quality has been downgraded. AHB test on live and recorded material will convince you that this is true, much better than our word for it. Each module assembly is inspected for assembly quality. Only 100% functional modules are loaded into frames. Thorough tests of all signal paths are made on all complete consoles prior to despatch. Completed consoles are shipped with a copy of the Sigma Series technical manual which includes installation, operation and maintenance sections.

SIGMA MODULE CONSTRUCTION

