

LPB[®]

Signature II AUDIO CONSOLE FEATURES

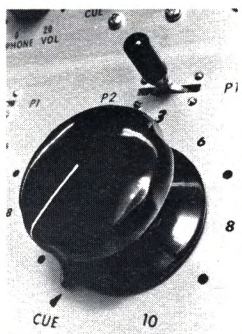


LPB[®] Signature II Audio Consoles...

Designed and manufactured to a high level of operational capability and electronic/mechanical reliability for the master control requirements of broadcasting and production.

Extensive human engineering and years of experience in console design have been combined to provide the operator with a console which is both visually appealing and easy to operate.

Internally, the approach is similar with immediate visual identification and ease of access to every component and connection in the console.

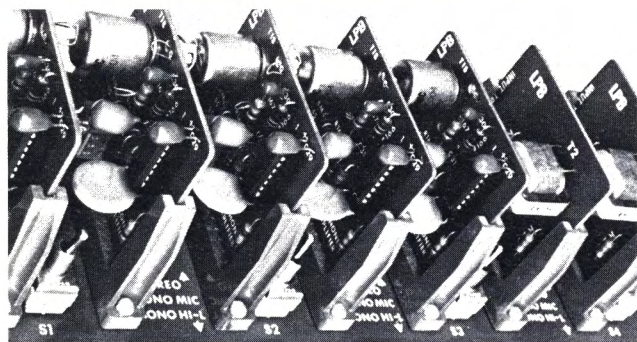


Signature II Consoles utilize these classic human engineered **control knobs** which readily conform to the grasp. Position markings allow immediate recognition of level settings at a glance from any direction. **Panel markings** are black epoxy silk screened over the .125 inch thick deep grained and brushed aluminum front panel, and overcoated with clear epoxy for additional permanence of markings.

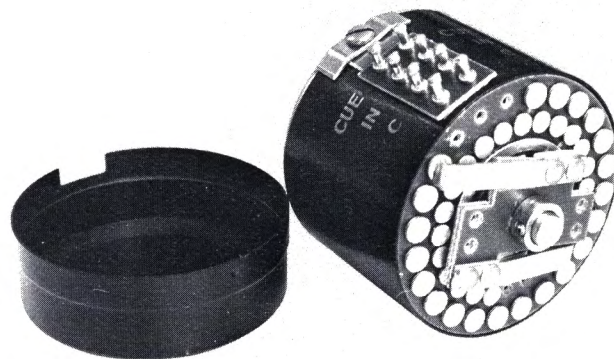
All **program buss switches** are rugged telephone-type roller cam design with gold alloy contacts. Additional closure contacts are provided for internal relay muting or are wired to terminal strips for external control of cartridge machines, turntables, etc.



A unique feature of the Signature II Stereo Consoles is the **mono/stereo input switch** located behind the front panel, which enables a mono source to be split to the left and right program busses. These selectors are provided for each microphone-capable channel and one high level channel.

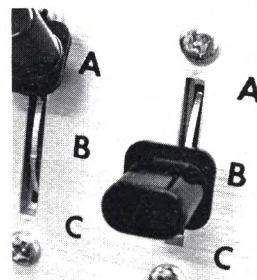


The **Card Edge Connectors** are molded of high stability diallyl phthalate and the contacts are phosphor bronze, with gold over copper plating. The contacts are of the "tuning-fork" variety with controlled lateral float, maintaining positive continuity of contacts and provides sufficient elastic reserve to prevent the contacts from becoming "set." All **I.C. sockets** feature gas-tight connection contact geometry with tin-alloy plated copper contacts. The miniature **toggle switches** used for microphone input gain selection, stereo/mono input switching and mono mixdown are Mil-Spec types with solid coin silver contacts and terminals which feature a minimum of 200,000 cycles of operation. (S-20 input circuit assembly shown)

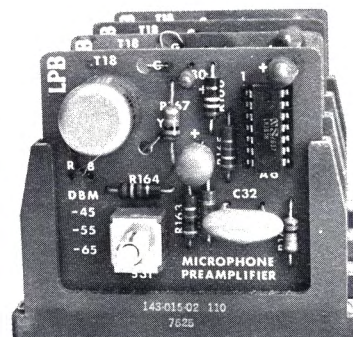


The **rotary step attenuators** are 2dB per step, 20 steps, with appropriate tapers at either end of the control range. The contacts are solid silver alloy and a laminated rotor is used to produce an exceptionally low noise figure of -125 dBm. A stainless steel shaft with free-turning sleeve-type bearings provides constant knob tension.

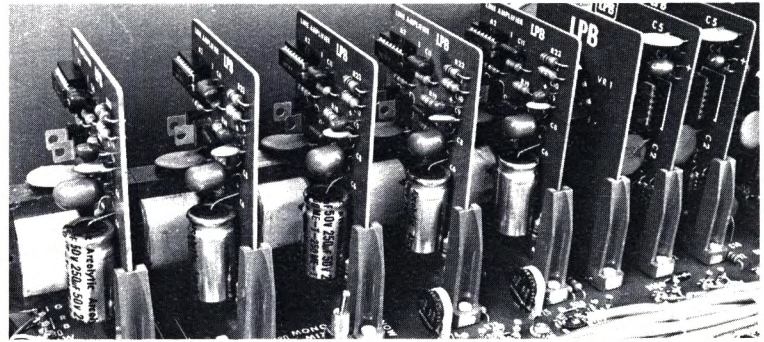
Signature II 8 and 10 mixer consoles feature 3 position **input selector switches** giving 24 and 30 input source capability. An exclusive manufacturing technique called "wedglock" contact fastening secures the stationary contact to prevent loosening and rotation of contacts. Spring tempered silver alloy contacts and coin silver rotor blades have a minimum lifetime of 250,000 cycles of operation.



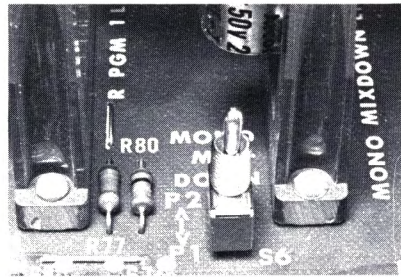
The plug-in **microphone preamp** incorporates switch selectable preamp gain to allow instant level matching to -45 , -55 and -65 dB microphone sensitivity levels. All microphone inputs are coupled with a dual shielded, high RF suppression transformer. All active circuitry is located on **plug-in modules** for flexibility and ease of maintenance.



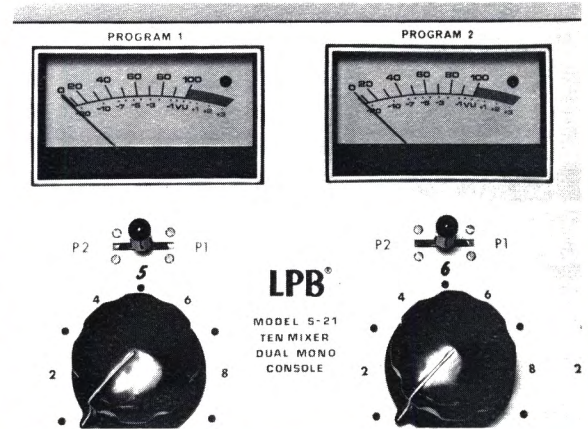
The **printed circuit boards** are 2 ounce copperclad G-10 fiber glass laminate, tin lead electroplated. Internal wire connections are soldered to silver plated miniature turret terminals, and all internal wiring is multiple-strand, 100% foil shielded. The **monitor power output transistors** are heat-sunk to the chassis rear panel for maximum heat dissipation. (S-20 output circuit assembly shown)



A feature of the Model S-20 10 mixer dual stereo console is the ability to add an optional output line amplifier which will provide a **mono mixdown**, switch selectable, of either the stereo program (P1) or audition (P2) busses.



High brightness **LED peak audio level indicators** are located in each illuminated VU meter and may be set by the user to flash at any desired level.



other

Signature II

console features

OUTPUT DIRECTOR SWITCH: Dual Consoles have a three position output director switch on the audition output line, other consoles have this switch on the program output line.

INTERNAL CUE SYSTEM: A 5" speaker and 1 watt power amplifier are located within the console to provide high quality audio performance.

MUTING AND TALLY RELAYS: Rugged telephone-type relays are utilized and are socket mounted for ease of maintenance.

POWER TRANSFORMER: The power supply and transformer is completely internal to the console, and the transformer is specifically designed for low field operation and has mylar interwinding insulation for protection against transient damage.

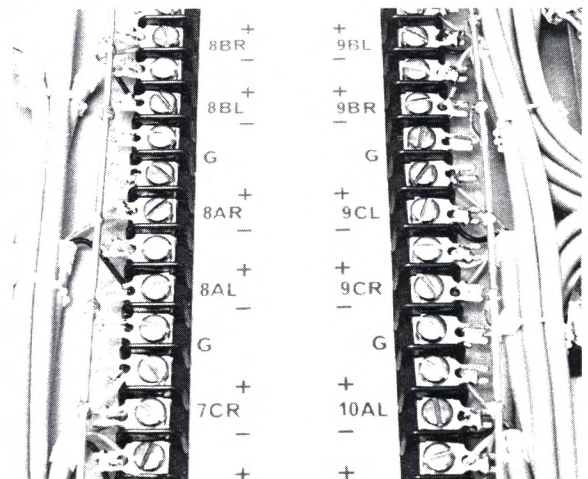
CHASSIS CONSTRUCTION: Consoles are constructed completely of aluminum alloy, with wood grain formica and vinyl covered warp free end panels attached to the metal end plates.

MODULAR ELECTRONICS: All active signal processing circuitry is "plug-in," and located on 2 "mother board" main frame assemblies. 5 types of plug-in modules are utilized for microphone preamps, balanced high level inputs, line outputs, voltage regulator, monitor output drivers and cue amplifier functions.

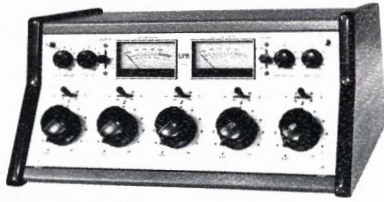
DUAL LINE LEVEL OUTPUTS: All audition (P2) outputs of Signature II Series consoles are balanced line level and metered, identical in performance to the main program (P1) output.

WARRANTEE: LPB guarantees your complete satisfaction upon receipt and will provide any necessary repairs at our factory, without charge for one year.

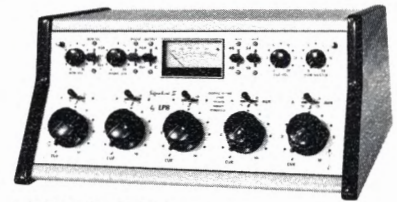
All **input-output connections** are made to screw terminal barrier strips clearly identified to aid in wiring without reference to the manual. The console harness cables are also identified and correspond to the internal circuit board wiring point markings and the wiring diagram.



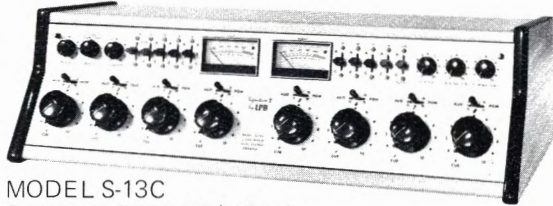
Signature II Series Audio Consoles...



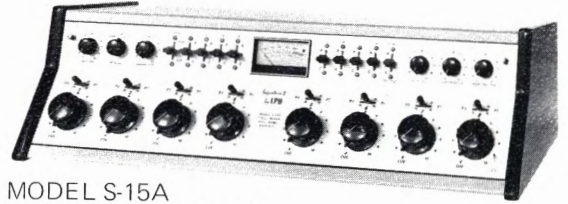
MODEL S-12
5 MIXER STEREO



MODEL S-14A
5 MIXER MONO



MODEL S-13C
8 MIXER STEREO/MONO



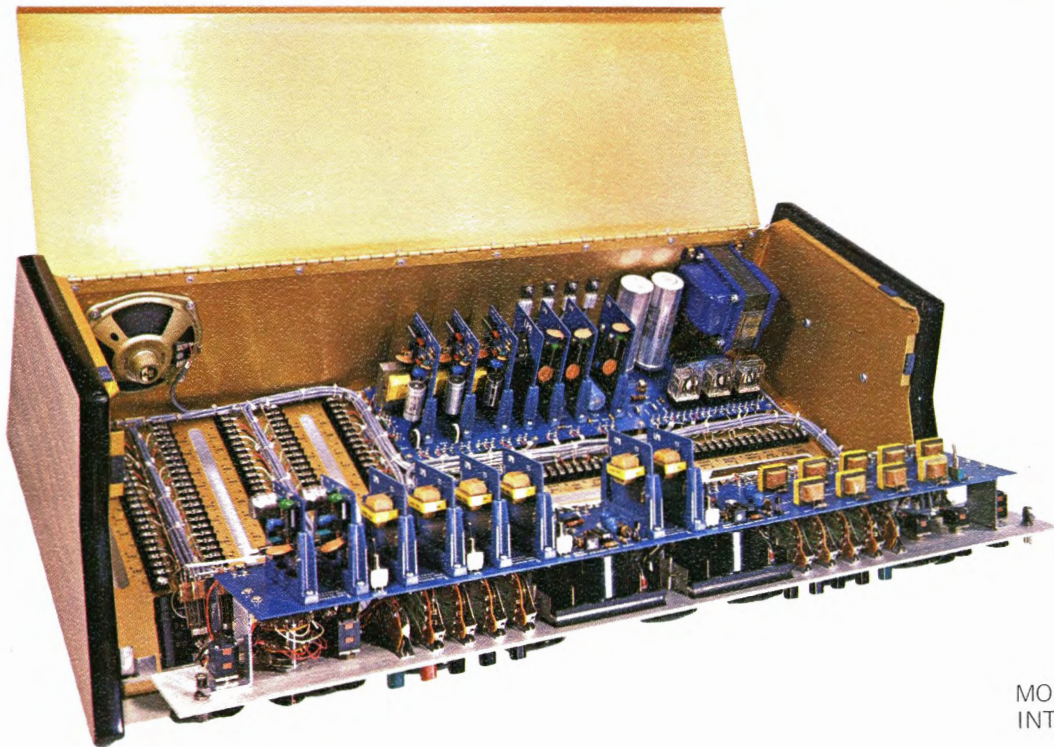
MODEL S-15A
8 MIXER DUAL MONO



MODEL S-20
10 MIXER DUAL STEREO



MODEL S-21
10 MIXER DUAL MONO



MODEL S-13C
INTERIOR

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