

FAIRCHILD

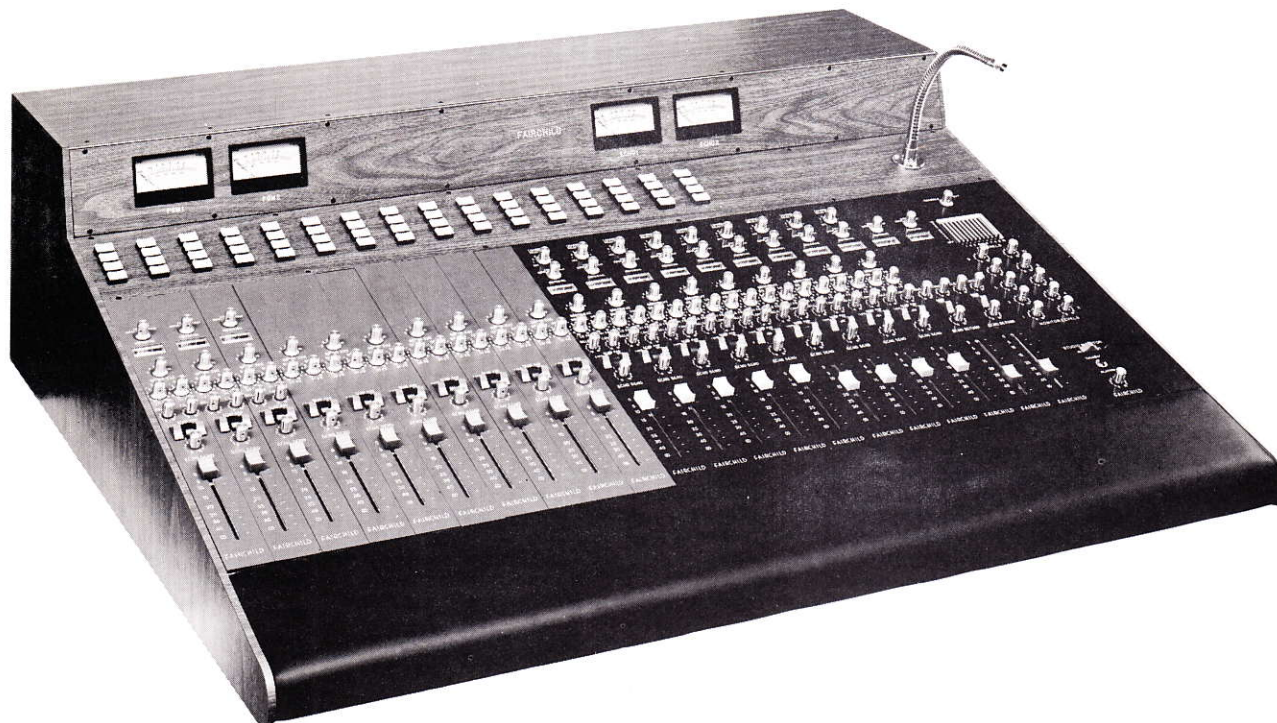
SOUND EQUIPMENT CORP.

ENGINEERING DATA

MODULAR RECORDING CONSOLES
AND INTEGRATED CONTROL MODULES

FAIRCHILD ENGINEERING DATA

ROBINS INDUSTRIES CORP. SUBSIDIARY
15-58 127TH ST. FLUSHING, NEW YORK 11356 212 445-7200



MODULAR RECORDING CONSOLES AND INTEGRATED CONTROL MODULES

INPUT MODULE, FICM
OUTPUT MODULE, FICOM
MONITOR MODULE, FICMM

With the FAIRCHILD original Integrated Control Module system you can have complete recording consoles with only three different plug-in modules, consoles with custom features that you select at the price of a "Standard" wired-in unit. Each compact "packaged" input and output module is a complete operating channel. The modules plug in (and out) as simply as a household plug, giving the units tremendous economic and service advantages.

With these unique plug-in units, a studio can be started with a few channels and gradually expanded, or channels can be moved from one studio to another as programming requires. The miniaturized solid state units provide economy and efficiency because of the close proximity of components. Down time for testing or repair is eliminated by the plug-in feature.

An unusual feature available only from FAIRCHILD is the option of eliminating functions not needed for a specific channel or application at a reduction in cost, each module being adaptable for your exact use and you pay only for the functions you need.

Utilizing the latest in solid state circuitry and the highest quality components, the FICM modules are packaged on a Formica covered strip 18½" long x 2" wide, with all input and output connections on "blue ribbon" connectors. All markings are engraved and filled for lifetime use without wear. Standard color is walnut grain, but almost any color can be supplied to match your studio decor. The modules are available individually, in "kit" form with console shell, or as a complete factory wired console.

INPUT MODULE — FICM

The FICM input module includes all necessary amplification and controls to process either mic or line level signals to mixing buss, recording machine or line for further distribution. Equalization, pre- and post echo feeds, metering and compression are included.

FEATURES

- INPUT LEVEL SELECTOR SWITCHES & PADS — either high level or mic level, both feeding into input transformer through switchable 20 db pad.
- INPUT PREAMP — with 50 db gain and +18 dbm output capability. Distortion less than 0.2% at any frequency or level below overload point.
- INPUT FADER — slide wire type provided with or without cue as desired. 125 db max. attenuation, 40 db working range. (LUMITEN light controlled attenuator available as an option.)
- ECHO FEED & ECHO FEED CONTROL, available on pre- or post-attenuator basis through pre/post selector on front panel.



MODULAR RECORDING CONSOLES
AND INTEGRATED CONTROL MODULES

MODULAR RECORDING CONSOLES AND INTEGRATED CONTROL MODULES

- **COMPRESSOR** — light-activated, distortion-free, providing 40 db dynamic range, 2:1 compression ratio. 6 milliseconds attack time maximum and variable release time. Variable compression. Overload protection above normal operating levels.
- **FULL SPECTRUM PROGRAM EQUALIZER** — switch controlled in 2 db increments, high and low frequency response. Feedback controlled with less than 0.2% distortion. No loss device.
- **OUTPUT AMPLIFIER** — with 40 db fixed gain, +18 dbm output. Less than 0.2% THD.
- **METERING** — reference VU meter provided for monitoring input level, output level and compression. Resembles standard VU meter characteristics.
- **CUE output** can be provided on optional basis, allowing for audition of material processed through the module input to the fader without necessity of feeding mixing buss.
- **SPECIFICATIONS**
 - Maximum Gain — 74 db (preamp gain 40 db, attenuator open, no compression)
 - Maximum Output — +18 dbm into 600 ohm load, resistive or inductive
 - Load Impedance — 150 ohms or higher
 - Output Source Impedance — 3 ohms (without transformer)
 - Input Impedances — mic input — 200 ohms
line input — 600 ohms
Lower source impedances can be fed directly into these inputs
 - Frequency Response — ± 1 db 20 to 20kHz
 - THD — 0.2% at 4 dbm. 0.5% max at 17½ dbm
 - IM Distortion — 0.2% maximum
 - Compressor — Dynamic range 40 db. 2:1 ratio. Attack time 6 msec (3 msec typical). Variable release time 0.3 to 7 seconds
 - Equalizer — Low frequency: boost 10 db @ 50 Hz in 2 db steps
droop 10 db @ 100 Hz in 2 db steps
High frequencies: 10 db boost at 2, 3, 4, 5, 7 and 10kHz in 2 db steps.
10 db droop max at 10kHz in 2 db steps.
 - S/N Wideband — 70 db or better with input level -50 dbm.
 - Power Requirement — 24V DC with ripple 0.5 mv p-p at 110 ma. FAIRCHILD 667II power supply recommended.
Handles up to 20 modules.

OUTPUT MODULE — THE FICOM

The FICOM output module, companion to the FICM input module, contains all the components required for a high quality broadcast or recording channel. It provides necessary amplification and controls to process 0 db, -20 db or -40 db buss levels (so that, depending on the amount of loss encountered in the mixing networks applied, input to the module can be selected for proper signal processing), and +4 echo return level to a +4 dbm output. The module includes equalization and compression, pre- and post echo return, metering and submaster attenuator, with provision for adding an external master attenuator if desired. Output of the FICOM can be fed into unbalanced line without transformer, or a transformer can be connected internally, isolating the module from external load. Echo return input and slating input are also provided.

FEATURES

- **INPUT AMPLIFIER** — amplification adjustable 25 to 50 db. Output capability +18 dbm with distortion less than 0.2%.
- **ATTENUATOR** — slide wire type with 40 db expanded working range. Nominal attenuation 125 db. (LUMITEN light controlled attenuator available as an option.)
- **ECHO RETURN** — available on a pre- or post-attenuator basis, selected by pre/post switch on front panel. Echo return control selects desired amount of signal from echo or reverberation device. Accepts source impedances up to 1,000 ohms.
- **COMPRESSOR** — same as input module.
- **FULL SPECTRUM PROGRAM EQUALIZER** — same as input module.
- **OUTPUT AMPLIFIER** — same as input module.
- **VU METER** — small VU meter to monitor input level, amount of compression and output level. Resembles standard VU meter characteristics.
- **SPECIFICATIONS**
 - Output Source Impedance — without transformer — 3 ohms with transformer — 50 ohms
 - Input Impedances — 0 db input — 100K ohms
-20 db input — 10K ohms
-40 db input — 1000 ohms
Echo return — 750 — 1K ohms
 - Frequency Response — ± 1 db 20 to 20kHz
 - THD — 0.2% at +4 dbm
 - IM Distortion — 0.2% maximum
 - Compressor — same as input module
 - Equalizer — same as input module
 - Wideband Noise — 70 db or better with an input signal of -50 dbm and +4 dbm output
 - Power Requirement — 24V DC ripple 0.5mv p-p at 110 ma. FAIRCHILD 667II power supply recommended.
Handles up to 20 modules.

MONITOR MODULE — THE FICMM

The standard monitor module is packaged on an 18½" long by 4" wide strip and contains provisions for monitoring ten inputs, switchable between console or tape return.

A 10 x 10 crossbar selector switch is included which enables monitoring of individual channels or any combination of channels. Gain controls for each monitoring channel are included.

Facilities for controlling slating and talkback microphones are included. Microphone preamplifier, level control and key switch for selecting either function are contained. Relay muting prevents feedback during studio recording and playback.

The FICMM monitor module requires 24V DC at 300 ma.

CONSOLE SHELLS

Shell to accommodate the 18½" long by 2" wide integrated control modules are available in unwired form, and come complete with VU meter tier, all necessary XLR connectors in the rear to accommodate desired number of channels. Channel plate for mounting mating "blue ribbon" socket assembly is included. Shells are constructed of aluminum covered in Formica to match or complement module color. Standard FICM shell is 20¾" wide by 23½" deep and contains 20" of mounting space (accommodating 10 FICM modules and/or spacers across). Other sizes available on request. VU meters are not included.

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SOUND EQUIPMENT CORP.

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SOUND EQUIPMENT CORP.

ENGINEERING DATA

REVERBERTRON MODEL 659A

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REVERBERTRON MODEL 659A

The FAIRCHILD REVERBERTRON is a dynamic reverberation system designed to enhance broadcast and recording studio sound. Not only is a more pleasing sound obtained with the use of the REVERBERTRON, but a side effect is the production of sound that is apparently louder and "livelier" than a non-reverberated sound. The result is extremely natural sounding, and possesses the quality of good acoustical reverb chambers.

The REVERBERTRON uses six electro-mechanical delay lines, each tuned differently to produce the natural reverberant effect. These mechanical devices are isolated to prevent building rumble and environmental noise pickup. Change in reverberation periods is obtained through the use of a compressor, which emphasizes decaying reverberation, effectively prolonging the effect.

Now smaller in size, several of these flexible reverberation systems can be stacked in the space previously occupied by a single system. The required rack space is only 7", or it can be carried into the field in one or two enclosures. The exclusive knob controlled "system lock" feature, which prevents vibration and damage in transit, and its low weight enhances its field use capability.

- FEATURES
- Improved S/N (65 db).
 - Lower input levels - 30 dbm.
 - Full range equalization (bass, midrange and control presence peak selection, high and roll off).
 - Instant selection of 3 decay times.
 - Metering of all signals in the system.
 - Local and remote selection of 3 degrees of reverberation (dry, - premix 1, premix 2).
 - Selector switch for dry signal, fully reverberated, partially & remotely selectable.
 - Continuous mix control.
 - All electronics on plug-in P.C. boards for easy access and maintenance.
 - Transformer isolated input and output 600 ohm or 150 balanced or unbalanced.
 - Only 3-1/2" of rack space for electronics - 7" for the complete system.
 - "System lock" for transit.

Patent #3436674

FAIRCHILD ENGINEERING DATA

REVERBERTRON MODEL 659A

REVERBERTRON 659A
PERFORMANCE SPECIFICATIONS

Input Level: -30 dbm or higher.

Input Impedance: 600 ohm balanced or unbalanced.

Output Handling Capability: +18 dbm.

Output Impedance: 600 or 150 ohm balanced or unbalanced.

Frequency Resp.: Dry channel - ± 1 db 20 Hz to 20 kHz.
Rev channel - from 50 Hz to 6 kHz adjustable to ± 15 db.

THD: Less than .4% maximum .1% at line levels.

S/N: 65 db.

Equiv. Input Noise: -125 db.

Decay Time: Selectable from 3 seconds to 5 seconds.

Controls: On and Off switch.
Decay time selector.
Meter selector switch.
Input gain control.
Low frequency eq control.
High frequency droop control.
High frequency boost selector switch.
High frequency boost control.
Pre-mix control #1.
Function selector switch.
Rev mix control.

Power Requirements: 110 V AC 30 watts.

Dimensions: Electronics - 3 1/2"H x 19"W x 10"D.

Delay Line Assy. -
3 1/2"H x 19"W x 10"D.

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ARCHITECTS AND ENGINEERS SPECIFICATIONS: REVERBERATION DEVICE

The reverberation device shall be completely self-contained on two rack-mountable chassis 3 1/2" high by 19" wide by 10" deep. The units shall have brushed aluminum front panels. It shall have a locking mechanism to prevent generator vibration and damage in transit.

All electronics shall be solid state and contained on two plug-in PC boards. The device shall have an input impedance of 600 ohms, balanced or unbalanced. It shall be capable of operating at an input level as low as -30 dbm and shall have an output capability of +18 dbm.

The reverberation device shall provide complete equalization of the reverberated signal, instant selection of three signal decay time constants, remote selection of three mix levels and continuous local mix control.

The device shall have a frequency response on dry channel within ± 1 db from 20 Hz to 20 kHz and on reverberated channel from 50 Hz to 6 kHz, adjustable to ± 15 db.

The device shall operate from a power source of 110 V AC, 30 watts.

The reverberation device shall be FAIRCHILD Model 659A REVERBERTRON.

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ENGINEERING DATA

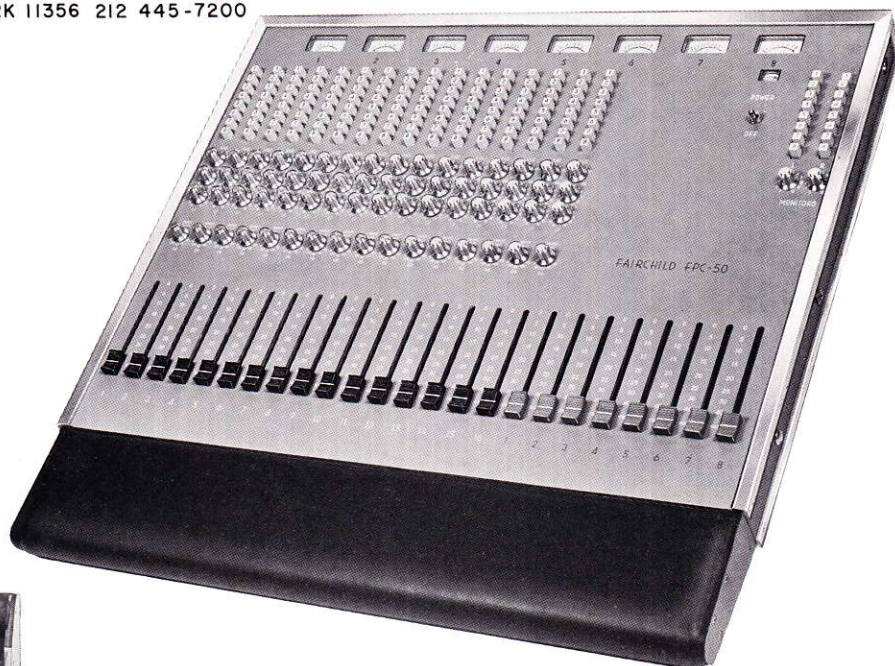
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PORTABLE MIXING CONSOLES

FAIRCHILD ENGINEERING DATA

PORTABLE MIXING CONSOLES



| MODEL | INPUTS & OUTPUTS |
|--------|--------------------------------|
| FPC-26 | Eight inputs — two outputs |
| FPC-28 | Eight inputs — four outputs |
| FPC-30 | Twelve inputs — two outputs |
| FPC-32 | Eight inputs — eight outputs |
| FPC-34 | Twelve inputs — four outputs |
| FPC-36 | Twelve inputs — eight outputs |
| FPC-38 | Sixteen inputs — two outputs |
| FPC-42 | Sixteen inputs — four outputs |
| FPC-50 | Sixteen inputs — eight outputs |

The FPC portable consoles are the first and only truly portable professional multi-channel mixing and sound shaping consoles. Using the latest reliable field-tested solid state circuitry, the FPC series can accomplish, on location or in the studio, almost anything that a large console can do.

These completely self-contained units are designed to be used in the field for recording, broadcast remotes and sound reinforcement. They are designed for ruggedness, high performance and low cost.

- Only 28" x 24" x 2" and weighing only 30 to 45 lbs. (depending on model).
- Up to 16 inputs and up to 8 outputs (50 individual amplifier circuits).
- Can operate for 25 hours on one set of "C" batteries in armrest (or use external power supply).
- Constructed of solid aluminum for ruggedness and light weight, and finished in walnut grain Formica with lettering engraved for lifetime no-wear use.
- VU meter panel tilts up for easy on-location monitoring.
- Comfortably padded Naugahyde armrest pulls forward for access to the XLR input, output and power connectors.
- Each output channel and power supply is metered.
- Failsafe automatic emergency battery power in case of supply failure.
- Automatic polarity protection for power input.

INPUTS Up to 16 balanced, transformer isolated inputs have input level switches which accommodate levels from microphone to line in 5 ranges. Impedance range from 200 ohms to bridging for high level inputs. Each input channel has a preamplifier, boost amplifier and input fader.

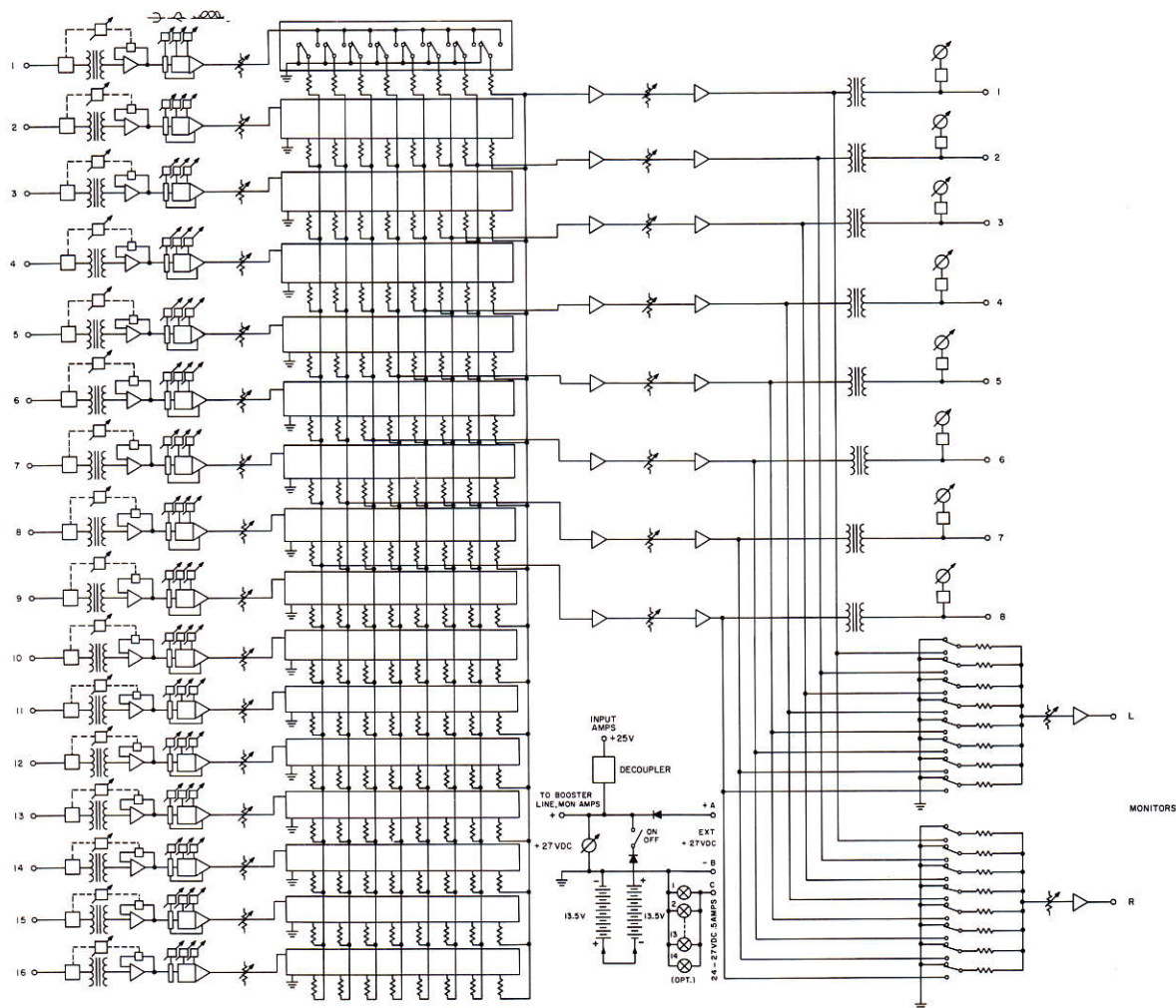
EQUALIZATION Each channel has full range equalization with independent low frequency boost and droop control, high frequency boost and roll-off control, and selectable peaking point control.

OUTPUTS Up to 8 mixing networks process signals into 8 separate transformer isolated output channels, each with submaster slide faders, taut band VU meters, booster amplifiers, line amplifiers, and balanced output transformer.

DELEGATION The mixing circuits of the FPC allow the signal from any input channel to be delegated to one, several or all output channels simultaneously. Signals from any input can also be delegated into these channels for external distribution for echo, reverberation or other special effect, or monitoring.

MONITORING Two adjustable monitor channels are provided with capability of monitoring one, several or all output channels simultaneously. Stereo phone jack is provided.

POWER SUPPLY Operates from self-contained power pack (18 "C" cells), or any external power supply, 27VDC @ 150 ma. max. FAIRCHILD 667AA/27 power supply is recommended. The FPC has battery ON/OFF switch and power meter. Fail-safe circuit automatically turns batteries on in case of external power failure. Diode in power circuit protects unit against reversed polarity.



FAIRCHILD PORTABLE MIXER MODEL FPC 50

SPECIFICATIONS

| | |
|--------------------------------|---|
| GAIN | 90 db |
| INPUT LEVELS | —55, —40, —30, —20, +4 dbm |
| OUTPUT LEVELS | +4 dbm nominal (14 db headroom) |
| INPUT IMPEDANCE | 200 ohms for mic input, bridging for line level |
| OUTPUT IMPEDANCE | 50 ohms designed for loads 150 ohms or higher |
| EQUALIZER | ±15 db control of complete spectrum in 3 db steps with boost frequencies of 2, 3, 4, 7 and 10 kHz |
| DISTORTION | 0.3% THD max (all 50 amplifiers) |
| FREQUENCY RESPONSE | ±0.5 db 20-20 kHz |
| INPUT NOISE | —125 dbm |
| INTERCHANNEL SEPARATION | 70 db min |
| POWER CONSUMPTION | 0.15 amperes at 27 volts |
| BATTERIES | 18 — alkaline or ordinary flashlight "C" type |
| DIMENSIONS | 28" x 24" x 2" |
| WEIGHT | 30 to 45 lbs complete |
| FRAME CONSTRUCTION | All aluminum, covered with engraved Formica, walnut grain. |

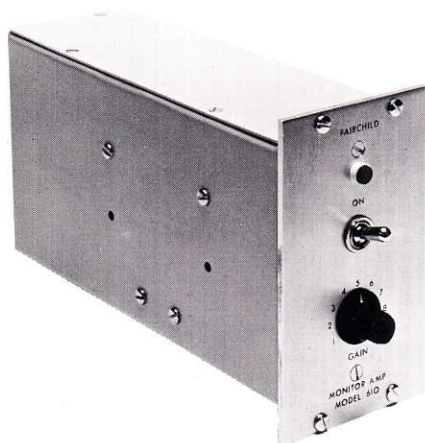
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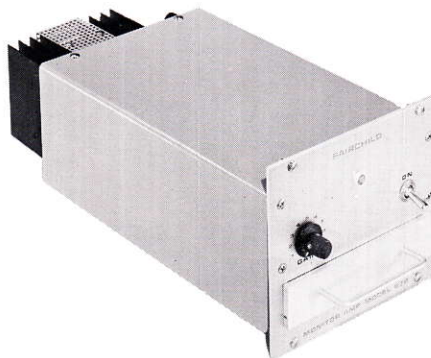
SOUND EQUIPMENT CORP.
ENGINEERING DATA

MONITOR/POWER AMPLIFIERS,
10 & 70 watt RMS, Models 610 & 870

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Model 610



Model 870

These meticulously engineered, manufactured and tested solid state power/monitor amplifiers are specifically designed for high reliability use in the broadcast, recording and professional sound reinforcement fields, and no cost or effort is spared to achieve near-perfection for these purposes.

- Extremely low distortion
- Excellent transient response
- Flat frequency response
- Output circuit protection against overload, open and short circuits
- Compact design and rack mounting for minimum space requirement
- Self-contained power supply
- Low Noise
- Transformerless output
- Bridging input

Both 610 and 870 amplifier circuits consist of four directly coupled stages of amplification, phase inversion and driving. DC feedback loops stabilize the operating point over the wide range of operating temperatures with no degradation in performance of the unit.

Amplifier load is connected directly to the output transistors through barrier strip terminals at the rear where input connections are also located.

FAIRCHILD ENGINEERING DATA

MONITOR/POWER AMPLIFIERS
10 & 70 watt RMS, Models 610 & 870

Model 610

In this unit the gain control on the input accommodates levels from -10 dbm (.25 bridging) and higher for full output. Minimum level of .25 V is required to produce 10 watts rms power into an 8-ohm load or 6½ watts into a 16-ohm load.

Output stage is Class AB circuit with maximum current flowing through the transistor being .4 amps, and idling current 20 ma.

Instantaneous overload protection is obtained through current limiting transistors in the driving circuit of each half of the output stage. As current through either of the output transistors exceeds preset value (clipping point), output stages are clamped down, driving the output stages into non-conductive state.

Model 870

The unit's balanced power supply eliminates the need for bulky and deterioration-prone coupling elements such as transformers and electrolytics. With the exception of output transistors and power supply, unit is housed on plug-in card, allowing instant access to any critical component for purposes of inspection, maintenance or repair.

Signal of .8 volts across the input produces 70 watts across the load. The amplifier will operate at any source with impedances up to 100,000 ohms. Output impedance is only a small fraction of recommended load impedance so that damping factor of the output is extremely high and, with average load, exceeds 20.

SPECIFICATIONS

| Model No. | 610 | 870 |
|---|-------|--------|
| Power output, watts rms into 8 ohm load | 10.0 | 70.0 |
| Power output, watts rms into 16 ohm load | 6.5 | 35.0 |
| Peak power output, watts | +15.0 | +100.0 |
| Frequency response, 20 Hz to 20 kHz, db. | - 1.0 | - 0.5 |
| THD, at full power, % | 0.4 | 0.4 |
| THD, typical, % | 0.2 | 0.2 |
| Noise, below rated output, db | -86.0 | - 85.0 |
| Input impedance, bridging, K ohms | 10.0 | 100.0 |
| Output impedance, ohm | 0.5 | 0.4 |
| Input level, min. for max. output, db | -10.0 | 0.0 |
| Damping factor | 16.0 | 20.0 |
| Power requirement, 117 VAC 60 Hz, amps max. | 0.3 | 2.0 |
| Suggested load impedance, ohms | 8.0 | 8.0 |

MECHANICAL SPECIFICATIONS

| Model No. | 610 | 870 |
|--------------------------------------|--------|--------|
| On/Off Switch | Yes | Yes |
| Input Gain Control | Yes | Yes |
| Weight, lbs. | 4½ | 13½ |
| Dimensions, height " | 5¼ | 5¼ |
| width " | 3 | 6 |
| depth " | 10 | 10 |
| Rack Mount frame | #662RM | #662RM |
| No. of units mountable in one #662RM | 5 | 2 |

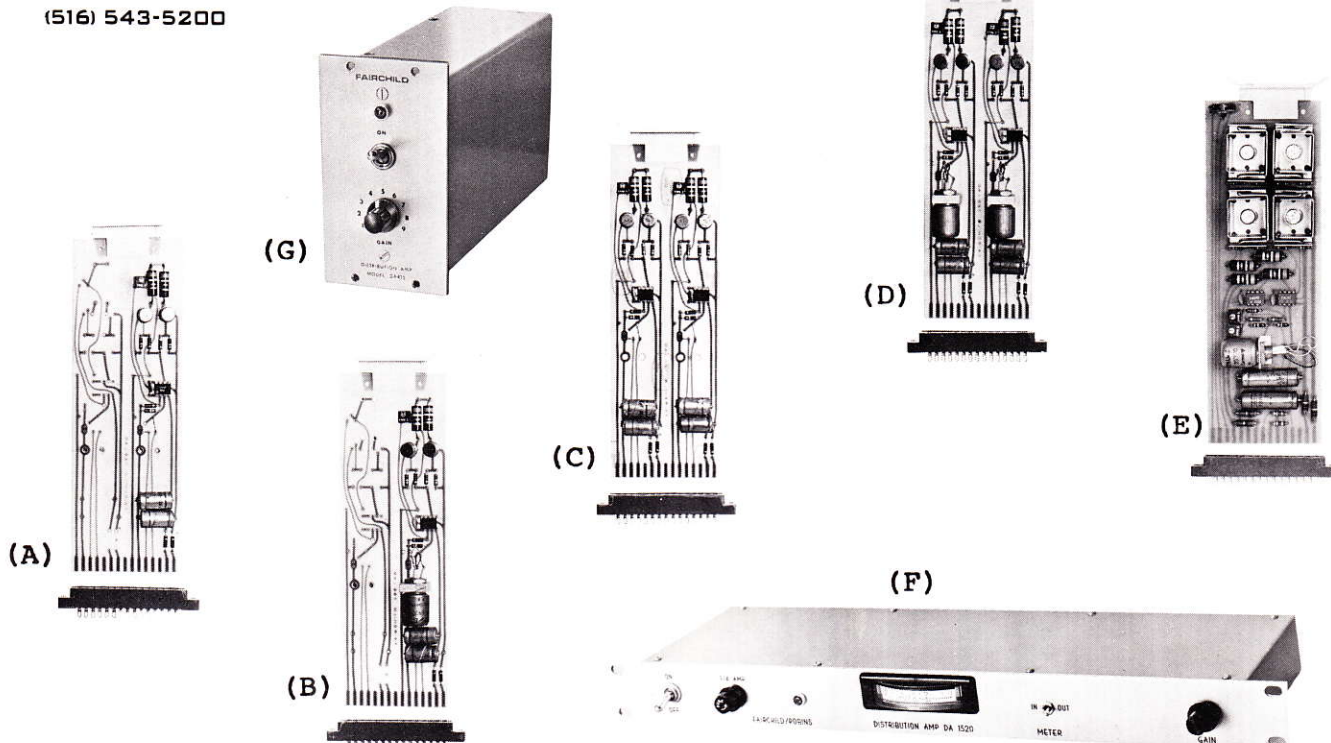


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SOUND EQUIPMENT CORP.
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DISTRIBUTION AMPLIFIERS

Models No. 725DA5/T, 725LA, 725LA/T, 725LAD, 725LAD/T2, DA415-8, DA 1520

FAIRCHILD SOUND EQUIPMENT CORP.
A ROBINS INDUSTRIES CORPORATION
75 AUSTIN BLVD., COMMACK, N.Y. 11725
(516) 543-5200



State of the art distribution amplifiers for use in broadcast and recording studios, PA systems, telephone networks, schools, etc. Features include card-file and rack mounting modularity and power supply compatibility with all other Fairchild/Robins circuitry. Low noise, high gain* transistor or IC op-amp circuits offer high stability, extremely low distortion, flat frequency response and overload protection, and almost nil crosstalk between channels.

These reliable economical units use heavy duty components for 20 year continuous-duty design life with low power consumption. Epoxy printed circuit boards with gold-plated contacts and mating P.C. connectors are supplied.

8 CHANNEL, Model DA415-8 (Illust. G) which operates on 117VAC consists of 8 separate Class A emitter follower isolation amplifiers whose inputs and outputs are accessible individually through a blue ribbon connector allowing for a variety of interconnections, including the distribution of a signal into 8 separate lines. Output circuits are used with reactive loads driving 600 ohm lines, which match transformers normally used in transmission lines, and telephone links. Unity gain enables direct input connections from high level sources such as consoles, tape machines, mixers and telephone lines.

The output stage has very low output impedance to work into resistive or inductive loads (important when feeding telephone lines through a transformer so that the Telco line impedance is bridging the output of the DA415-8).

The self-contained power supply has active filter and voltage regulator circuits, overload and short circuit protection, and very low ripple voltage. The gain control is used for common input to all amplifiers.

15 CHANNEL, Model DA 1520 (Illust. F) distributes an audio signal into 15 balanced lines. It mounts into a 19" rack, taking only 1 3/4" of vertical space and has a self-contained power supply for plug-in to 117 VAC line.

Output circuit of the amplifier consists of two sets of complementary symmetry current drivers with heavy negative feedback, assuring low distortion and low output impedance needed for channel isolation.

VU meter monitoring of input and output signals and gain is provided. All input and output connections are made through screw type terminals on a barrier strip, allowing for a variety of applications. Output level of the amplifier remains constant, regardless of the number of lines being fed by it. Input to the amplifier is balanced and isolated by an input transformer.

2 to 75 CHANNEL, Model 725DA5/T (Illust. E) is a high level, high power distribution amplifier which can also be used as a power amplifier to drive small cue speakers or as a line amplifier, etc. Each of two separate sections delivers 26 dbm signal into 600 ohm load. Combined power output is 36 dbm into lower impedance load. Delivers balanced output without use of transformer.

25 CHANNEL, Model 725LA (Illust. A) is a versatile basic modular amplifier which can be used as a line amplifier or distribution amplifier, delivers up to 27 dbm into 8 ohm load unbalanced.

25 CHANNEL, Model 725LA/T (Illust. B) is the same as 725LA but with matching input transformer.

50 CHANNEL, Model 725LAD (Illust. C) Two line amplifiers on a single card. Each amplifier similar to 725LA. Separate decoupling for each amplifier. Delivers balanced output without use of transformers.

50 CHANNEL, Model 725LAD/T2 (Illust. D) Same as 725LAD except with matching input transformers.

*except DA415-8, unity gain.

FAIRCHILD/ROBINS

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FAIRCHILD/ROBINS DISTRIBUTION AMPLIFIERS

| Model No. | Illus. | No. of Amplifiers | Gain db | Input Imp. ohms | Output Imp. ohms | Max. Out-Put Level dbm | Load Imp. ohms | S/N (dbm out) | Noise (dbm out) | Dist. Max. % | Freq. Resp. db±(a) | Interch. db min. | Crosstalk VDC | POWER REQ. @ ma | Rec. Power Supply | L x H x D Dimensions | Assoc. Mtg. Hardware |
|-----------|--------|-------------------|---------|-----------------|------------------|------------------------|----------------|---------------|-----------------|--------------|--------------------|------------------|---------------|-----------------|-------------------|----------------------|----------------------|
| 725DA5/T | E | 1 | 5-40 | 10K | 0.5 | 36 | 8&up | 40 | 85 | 0.2 | 0.5 | 70 | ±15 | 20/120 (e) | 667T/15 | 2½x7½(b) | 725SCH or 725CF |
| 725LA | A | 1 | 0-25 | 100K | 0.1 | 27 | 8min. | 35 | 70 | 0.2 | 0.5 | -- | ±15 | 120 | 667T/15 | 2½x7½(b) | 725SCH or 725CF |
| 725LA/T | B | 1 | 20-45 | 200-600 | 0.1 | 27 | 8min. | 55 | 71 | 0.2 | 0.5 | -- | ±15 | 120 | 667T/15 | 2½x7½(b) | 725SCH or 725CF |
| 725LAD | C | 2 | 0-25 | 100K | 0.1 | 27 | 8min. | 35 | 70 | 0.2 | 0.5 | 70 | ±15 | 120 (f) | 667T/15 | 2½x7½(b) | 725SCH or 725CF |
| 725LAD/T2 | D | 2 | 20-45 | 200-600 | 0.1 | 27 | 8min. | 55 | 71 | 0.2 | 0.5 | 70 | ±15 | 120 (f) | 667T/15 | 2½x7½(b) | 725SCH or 725CF |
| DA415-8 | G | 8 | 0 | 100(d) | 10 | 15 | 600 | 0 | 75 | 0.3 | 1.0 | 70 | 117(AC) | 45 | -- | 3½x5½x10 | 662RM |
| DA 1520 | F | 1 | 0-40 | 600 | 600(c) | 20 | 600 | 35 | 70 | 0.2 | 0.5 | 70 | 117(AC) | 40 | -- | 19x1-3/8x6 19"rack | |

ARCHITECTS AND ENGINEERS SPECIFICATIONS: DISTRIBUTION AMPLIFIER

The Distribution Amplifier shall employ transistor or Integrated Circuit design. Vacuum tube circuitry will not be acceptable.

The transistors, Integrated Circuits and associated circuitry shall be assembled on glass epoxy circuit boards which shall have gold-plated contacts, and the entire circuit board shall be removable from its housing, if provided, for immediate inspection and service.

The frequency response of the Distribution Amplifier shall be ___ to ___ cycles, plus or minus ___ db. The gain of the preamp shall be ___ db.

The amplifier shall be capable of a power output of ___ dbm with distortion under ___ % at ___ cycles and ___ % at 1KC. Input impedance of the Distribution Amplifier shall be ___ ohms. A transformer may be used at the input for lower impedance requirements.

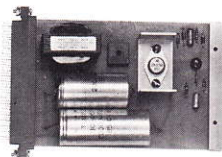
The output of the device shall be ___ ohms. The preamp shall operate from an ___ V. power supply at ___ ma.

The physical dimensions shall be ___ " x ___ " x ___ ".

The Distribution Amplifier shall be the Fairchild/Robins Model ____.

ROBINS INDUSTRIES CORP. SUBSIDIARY

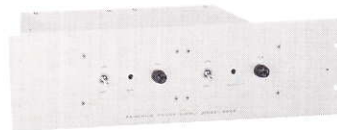
15-58 127TH ST. FLUSHING, NEW YORK 11356 212 445-7200



(e)



(f)



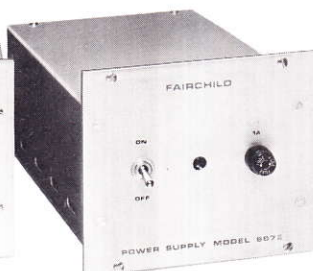
(g)



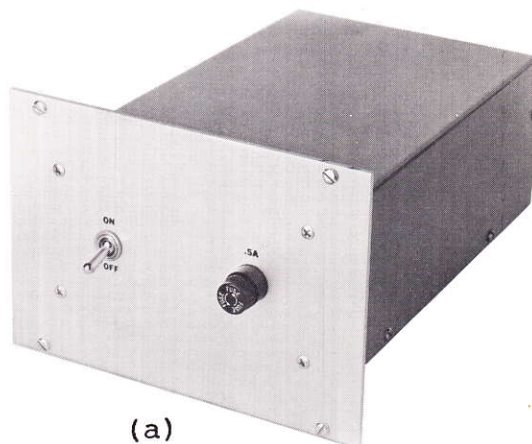
(d)



(c)



(b)



(a)

Specifically engineered and packaged for powering sophisticated audio equipment such as recording and broadcast audio consoles. These meticulously manufactured power supplies have earned an enviable reputation in professional use.

- Heavily filtered
- Extremely low ripple
- Excellent load and voltage regulation
- Overload protection
- Short circuit protection
- Remote sensing
- Solid state dependability
- Heavy duty components for long life continuous duty
- 20 year + design life
- Rack mounting convenience
- Brushed finish aluminum panels
- Modularized to mate with Integra I, II & III components

FAIRCHILD POWER SUPPLIES

FAIRCHILD
SOUND EQUIPMENT CORP.
ROBINSON INDUSTRIES GROUP
1538 27th ST. FLORENCE, NEW YORK 11365 212-445-7200



REGULATION

| Model No. | Illus. | V.a.c. Input @ 1.0 amp | O U T P U T S | | | | REGULATION | | | | Voltage Reg. % | Load No. (A) | Full Load Fuse (B) | On/Off Switch, Load & Linecord (B) | Short Circuit Protect @ Amps | Pilot Light(s) | Dimensions L x H x D | Assoc. Mtg. Hardware |
|-----------|--------|---|---------------|----------------|-------|------|------------|--------|-------|----------|----------------|--------------------|--------------------|------------------------------------|------------------------------|----------------|----------------------|----------------------|
| | | | V.d.c. Set. | d.c.amps | Fact. | Reg. | Linecord | On/Off | Short | Linecord | | | | | | | | |
| 624 | (g) | Note: 624 is a combination of 667/II and 667D/II on a common chassis. | 2 | 19x5 1/2 x 10" | Rack | | | | | | | | | | | | | |
| 667/II | (b) | 117 | -- 12-30 (G) | 18 | 2.0 | 1.0 | 0.05 | 0.3 | Yes | 2.1 | 1 | 6x5 1/2 x 10" | 662RM | | | | | |
| 667AA | (a) | 117 | 6.3 | 18 | -- | 0.35 | 0.1 | 0.3 | 1.0 | Yes | 0.4 | -- | 6x5 1/2 x 11" | 662RM | | | | |
| 667AA/24 | (a) | 117 | 6.3 | 24 | -- | 0.35 | 0.1 | 0.3 | 1.0 | Yes | 0.4 | -- | 6x5 1/2 x 11" | 662RM | | | | |
| 667AA/27 | (a) | 117 | 6.3 | 27 | -- | 0.15 | 0.1 | 0.1 | 0.5 | Yes | 0.16 | -- | 6x5 1/2 x 11" | 662RM | | | | |
| 667B/18 | (d) | 117 | 6.3 | 18 | -- | 0.1 | 0.1 | 0.1 | 1.0 | Yes | 0.12 | -- | 3x5 1/2 x 8-3/4" | 662RM | | | | |
| 667B/24 | (d) | 117 | 6.3 | 24 | -- | 0.1 | 0.1 | 0.1 | 1.0 | Yes | 0.12 | -- | 3x5 1/2 x 8-3/4" | 662RM | | | | |
| 667D/II | (c) | 117 | -- 4-6.5 (G) | 6.3 | 3.0 | 1.0 | 0.1 | 2.0 | Yes | 3.1 | 1 | 6x5 1/2 x 10" | 662RM | | | | | |
| 667T/15 | (b) | 117 | -- 12-24 (F) | 15.0 | 1.0 | 0.1 | 0.1 | 1.0 | Yes | 1.1 | 1 | 6x5 1/2 x 10" | 662RM | | | | | |
| 667T/24 | (b) | 117 | -- 12-24 (F) | 24.0 | 1.0 | 0.1 | 0.1 | 2.0 | Yes | 1.1 | 1 | 6x5 1/2 x 10" | 662RM | | | | | |
| 692PS/6.3 | (e) | 117 | -- 6.3 | -- | 0.5 | 0.2 | 0.07 | 3.0 | -- | 0.51 | -- | 3 1/2 x 5" (D) | 692SCH or 692RM | | | | | |
| 692PS/24 | (e) | 117 | -- 24 | -- | 0.18 | 0.2 | 0.07 | 0.4 | -- | 0.2 | -- | 3 1/2 x 5" (D) | 692SCH or 692RM | | | | | |
| 725BPS | (f) | 117 | -- 15 (E) | -- | 0.05 | 0.1 | 0.5 | 0.5 | -- | 0.06 | -- | 2 1/2 x 7 1/2" (D) | 725CF or 725SCH | | | | | |

NOTES:

(A) at full load - line variation from 90V to 120V. (B) m V rms. (D) Printed circuit board with gold plated contacts and mating connector. (E) Bi-polar 30 V max. (F) Bi-polar 48 V max. continuously variable. (G) Continuously variable.

ARCHITECTS AND ENGINEERS SPECIFICATIONS: POWER SUPPLY

The power supply shall be a high quality unit, featuring extremely low ripple, short circuit protection, overload protection, remote sensing and compact solid state design. The power supply shall operate from a source voltage of 117 V AC and provide power outputs of ___ V dc at ___ amp., ___ V dc at ___ amp. and/or ___ V ac at ___ amp. (See tabulation above).

The power supply shall have voltage regulation of ___ % for line voltage variation from ___ to ___ V at full load. Ripple shall be ___ mv or less. It shall have short circuit protection when load exceeds ___ amps.

The power supply shall have dimensions of ___ H x ___ W x ___ D. Rack mounting models shall be capable of mounting on standard rack mounting frames. Plug-in models shall be capable of being mounted in appropriate card files or single card holders. Plug-in models shall be equipped with gold-plated contacts and shall include mating connectors. The power supply shall be FAIRCHILD Model _____. (Obtain type number from chart above).