

MODEL 658A "REVERBERTRON" SYSTEM

A dynamic reverberation system designed to enhance sound quality in radio stations and recording studios... the compact, professional answer to the creation of reverberated sound effects. Employs six electro-mechanical delay lines, each tuned differently, to produce the effect; these mechanical devices are especially isolated to prevent building rumble and general environmental noise pickup. Unit comes in two sections: A complete electronics system (see illus.), and an electro-mechanical shock-mounted delay generator (not illus.). Offers three basic reverberation periods: Short; moderate 1.5 sec.; and a prolonged effect of about five sec. Electronic time control switch on front panel permits instant and noiseless changes in time effect; also has front-panel control for all mixing of reverberated to straight signals. Easily rack mounted or carried into the field. **Input Impedance:** Up to 600 ohms, unbalanced. **Output Impedance:** 150 and 600 ohms, balanced or unbalanced. **Size:** Electronics unit, 19" w. x 5 1/2" h.; delay generator, 19" w. x 19 1/2" h.; overall, 19" w. x 24 1/2" h.

Fairchild Model 658A Reverbertron—Net Each. \$985.00

INTEGRA/SERIES* AUDIO COMPONENTS

MODEL 661TL AUTO-TEN® NOISE ATTENUATOR

Fully transistorized high speed, no-distortion automatic attenuator (not a limiter or compressor) used between any two amplifiers or line amplifiers in balanced or unbalanced lines. Typical applications include: Keeping tight sound on close-up mikes in large halls; eliminating need for acoustic screens in studios; improving signal-to-noise ratios and separation; minimizing tape print-through (such as on language instruction and dramatic tapes); maintaining quiet during LP records; automated control room operation; reducing noise in film recording or in multi-track tape transfer; minimizing PA feedback. Auto-Ten can also be used as a "ducker", handling two inputs, one input automatically reducing the gain of the other program input. **Input Level Requirements:** -35 dbm to +25 dbm. **Input and Output Impedances:** 150 to 47,000 ohms, balanced or unbalanced. **Insertion Loss:** 2 db loss at 150 ohms, 0.5 db loss at 600 ohms. **Frequency Response:** Flat (resistive network). **Distortion:** None. **Controls:** Threshold Control (determines point of operation, i.e., point where it reduces gain automatically); Adjustable Release Time Control (can be set between 0.3 and 7 sec.). **Transistors and Diodes:** 2-2N508/2N35, 2-2N323/2N307, 1-1N96, 4-1N645. **Power Required:** 6.3 v. AC, 60/50 cps at 200 ma; 8 v. DC at 200 ma. **Weight:** 8 1/2 oz.

Fairchild Model 661TL Auto-Ten—Size: 1 1/2" w. x 6 1/2" d. x 3" h. Net Each. \$135.00

MODEL 662 PREAMP/LINE AMPLIFIER

Completely transistorized printed circuit preamplifier. Can also be used as line amplifier. Variable gain adjustable by screwdriver. Transformer-isolated output may be operated balanced or unbalanced. Temperature range up to 100° F. New module thin line design permits easy installation in consoles or racks. **Gain:** 50 db, variable from 15 to 50 db. **Output:** +24 dbm with 0.5% distortion. **Low Noise Level:** -120 dbm. **Response:** ±1 db, 30-20,000 cycles. **Power Required:** 18 v., 85 ma. **Size:** 1 1/2" w. x 6" d. x 4" h.

Fairchild Model 662 Preamplifier—Net Each. \$134.00
Fairchild Model 662TXI Preamplifier—Same as Model 662, but with input transformer for 150/600 ohms. Net Each. . . \$149.00

MODEL 663 COMPRESSOR

A compact, easy-to-install compressor for effective audio level control. Utilizes miniature parts in a special no-distortion compression circuit. Minimum space required; no larger than a slide-type attenuator. Small size permits installation of compressor for every microphone channel in recording studio, PA and broadcast consoles. Guaranteed no distortion. **Impedance:** Works into low impedance circuits from 50 to 1,000 ohms. **Control Level:** Permits control of microphone levels of plus 4 levels; up to 20 db of compression. **Attack Time:** 2 millisecond. **Release Time:** Variable from 300 millisecond, to 7 sec. **Controls:** Metering; Threshold Control; Variable Release Control. **Size:** 1 1/2" w. x 4" d. x 7" h.

Fairchild Model 663 Compressor—Net Each. \$165.00
Fairchild Model 663ST Stereo Compressor—Net Eac. . . 225.00

MODEL 664 PROGRAM EQUALIZER

Allows user to boost at the frequencies of 4, 6, 8, 10 and 15 kc in steps of 2 db for a total compensation of 12 db at selected frequency. Rolloff in 2 db steps also available. Low frequency boost of 10 db in 2 db steps at 100 cps. Low cut can also be rolled off in 2 db steps. **Insertion Loss:** 17 db. **Input:** Up to 600 ohms. **Output:** 50, 150, 300 and 600 ohms. **Size:** 1 1/2" w. x 6" d. x 4" h.

Fairchild Model 664 Program Equalizer—Net Each. . \$155.00

MODEL 665 PROGRAM EQUALIZER/AMPLIFIER

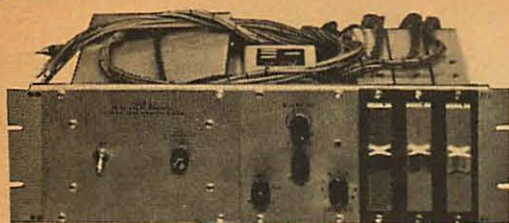
Combination of Model 664 Equalizer and Model 662 Preamplifier/Line Amplifier on one module mounting setup. **Size:** 19" w. x 10" d. x 5 1/2" h.

Fairchild Model 665 Program Equalizer/Amplifier—With power supply. Net Each. \$395.00
Fairchild Model 665TXI Program Equalizer/Amplifier—Same as Model 665, but with input transformer. Net Each. . \$425.00

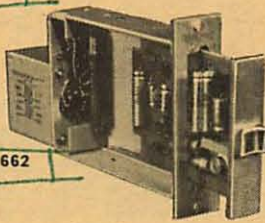
MODEL 667 POWER SUPPLIES FOR INTEGRA/SERIES

Fairchild Model 667 Power Supply—For use with 661TL, 662, 663 and 668. Accommodates up to 20 units. Net Each. . \$180.00
Fairchild Model 667AA Power Supply—Accommodates up to four type 662, ten type 661TL or ten type 663. Net Each. . \$110.00
Fairchild Model 667B Power Supply—For one type 662. Has 6.3 v. for up to ten type 661TL or 663. Net Each. \$75.00

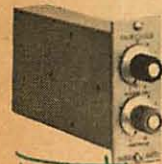
*Trademark of Fairchild Recording Equipment Corp. ©Trademark: Formica of Synthane Corp.; Auto-Ten of Fairchild Recording Equipment Corp.



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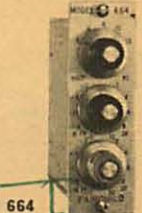
661TL



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750 on 751



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MODEL 750 STEREO TURNTABLE

The Turntable Designed for Stereo Broadcasting! Professional three-speed 16" playback turntable with a belt drive. Provides maximum isolation between motor and table to minimize vertical and lateral rumble. Two-speed hysteresis synchronous motor keeps pulley diameter changes to a minimum to avoid belt stretching and assures locked-in speed. Ample room for mounting all arms; mounting plate takes 16" arm. Quiet operation permits use close to open microphones. Can be remotely started. No idlers to develop "flats". Maximum flywheel effect achieved by a 35 lb. no wobble turntable. Rubber belt is machined to .0001" tolerance to insure correct speed and low wow. Attractive aluminum dress plate with 2" space below allows mounting of controls on the plate with ease. **Turntable:** Aluminum, 16" dia.; undercut for easy record handling and culling; Dense filled, dynamically balanced; weight 25 lbs. **Motor:** Two-speed hysteresis synchronous 1/42 hp, 1/20 at 78 rpm. **Speeds:** 33 1/3, 45, and 78.26 rpm. Speeds constant within 1/10 of 1%. **Cuing Time:** 33 1/3 rpm, 1/2 rev. max.; 45 rpm, 1/4 rev. max.; 78.26 rpm, 1/4 rev. max.; all with Fairchild universal felt-padded cue disc. **Rumble:** 65 db below 7 cm/sec. at 1 kc. **Wow and Flutter:** Better than 0.03% peak-to-peak. **Power Required:** 110-120 v., 60 cycles, single phase, 1 amp, 120 watts. **Dimensions:** 24" w. x 24" d. x 10" h. **Weight:** Mechanism alone with mounting board, 60 lbs. **Finish:** Black or walnut mounting board; satin finish, aluminum trim.

Fairchild Model 750 (Black) or 750W (Walnut) Three-Speed Turntable—With Formica® top mtg. board. Net Eac. . \$595.00

Fairchild Model 750-2 (Black) or 750-2W (Walnut) Two-Speed Turntable—For 33 1/3 and 45 rpm only. With Formica top mtg. board. Net Each. \$485.00

Fairchild Model 751 (Black) or 751W (Walnut) Mounting Cabinet—Formica finish. For use with Models 750 or 750-2. Has front pedestal for turntable On-Off foot switch. **Size:** 24" w. x 24" d. x 34" h. Net Each. \$160.00

Fairchild Model 753 (Black) or 753W (Walnut) Mounting Cabinet—Formica finish. For use with Models 750 or 750-2. **Size:** 24" w. x 24" d. x 28" h. Net Each. \$160.00

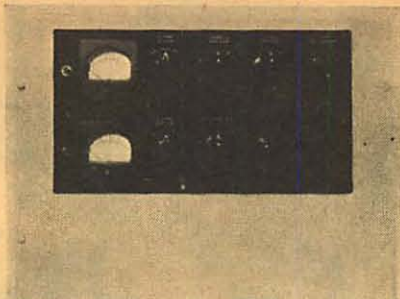
MODEL 670 STEREO LIMITER

A radical departure from the classical limiter design; characterized by the complete absence of audible thumps, distortion and noise. Another feature is its extreme stability over long periods of time.

The Fairchild Model 670 may be operated either as two independent limiters or as a vertical-lateral component limiter. Function change made by the flick of a switch. The complete unit is enclosed within 14 inches of rack space.

A special feature of the unit is its ability to produce full limiting effect during the first 10,000th of a second (unlike conventional limiters that pass short transients due to their slowness of attack).

Input Impedance: 600 ohms each channel.
Output Impedance: 600 ohms each channel.
Input Level Range: 0 dbm to +16 dbm. **Gain:** 7 db. **Frequency Response:** ±1 db, 20-15,000 cps. **Separation:** 60 db, A-B position; 40 db, Vertical-Lateral position. **Release Time:** Adjustable 0.3 to 25 seconds in 6 positions. **IM or Harmonic Distortion:** Less than 1% at any level up to +18 dbm output (no limiting). Less than 1% at 10 db limiting +12 dbm output. **Power Required:** 3 amps, 115 v. AC, 50-60 cps.
Fairchild Model 670 Stereo Limiter—Net Each . . . \$1695.00
Fairchild Model 660 Single Channel Limiter—Net . . . 995.00



Model 670



Model 676A

MODEL 676A EQUALIZED DISC PLAYBACK PREAMPLIFIER

Equalized disc playback preamplifier for use with virtually any magnetic phono cartridge. Offers more than sufficient gain for present or future phono pickups. Employs silicon transistors to accurately and properly compensate for the NAB curve in record playback. Designed with minimal amount of controls to eliminate operating problems. Lack of de-emphasis switch assures continuous operating quality of broadcast station transmitters without high frequency overload; for lab use, however, a subminiature switch can be easily installed to deactivate the de-emphasis network. **Gain:** 70 db max. at 1 kc; 1 mV will produce +10 dbm out. **Frequency Response:** Within .75 db NAB, 30-15,000 cps. **Output Level:** +14 dbm max. **Distortion:** 0.25% at +14 dbm. **Noise:** 60 db below +10 dbm out with input of 5 mV at 1 kc. **Input Impedance:** 47,000 ohms. **Output Impedance:** 20 ohms emitter-follower. **Power Required:** 18 mA at 18 VDC. **Size:** 1 1/2" w. x 7 1/2" d. x 5 1/4" h.

Fairchild Model 676A Disc Preamp—Net Each . . . \$125.00

Fairchild Model 676A-2 Stereo Disc Preamp—In top plate mounting; size, 6" w. x 7 1/2" d. x 6" h. Net Each . . . \$225.00

Fairchild Model 676B Tape Preamp—Net Each . . . 140.00

Fairchild Model 676B-2 Stereo Tape Preamp—Net . . . 275.00

MODEL 673 DYNALIZER

Automatic dynamic equalizer continually introduces a dynamic loudness curve similar to the Fletcher Munson curve into an audio channel. As level drops, low and high frequency ends of the audio range are boosted to create "apparent loudness", without constricted, monotonous sound or harmonic distortion. For use in broadcasting, PA systems, recording, background music systems, etc. **High End Boost:** 10 db max. **Low End Boost:** 14 db max. **Input Impedance:** Up to 1000 ohms. **Output Impedance:** Up to 50K ohms. **Levels Accommodated:** -20 to +20 dbm. **Insertion Loss:** 17 db. **Controls:** Threshold; High Frequency Response. **Power Required:** 6.3 v. AC or 9 v. DC at 150 ma. **Size:** 7" w. x 4 1/2" d. x 1 1/2" h.

Fairchild Model 673 Dynalizer—Net Each . . . \$199.00

Fairchild Model 673ST Stereo Dynalizer—Net Each . . . 435.00

Fairchild Model 683 Dynalizer—With line amplifier and power supply. Net Each . . . \$399.00



A new concept in limiting devices, especially developed for use in systems with treble pre-emphasis such as disc recording and FM/TV sound transmission. Its action is instantaneous and inaudible for most program material; allows 4 to 6 db higher cuttings or transmitting levels. Also effective in tape and optical recording. **Input Impedance:** 600/150 ohms each channel. **Output Impedance:** 600/150 ohms, each channel. **Input Level:** +4 VU or +8 VU. **Output Level:**

+4 VU or +8 VU (no overload before +27 dbm). **Frequency Response:** ±1 db, 30-15 kc, normal operating conditions; 2-15 kc roll-off depending on level, instantaneous. **Noise:** ±4 dbm, -70 db. **Distortion:** Less than 1% below filter threshold.

Fairchild Model 602 Stereo Conax—Net Each . . . \$595.00

Fairchild Model 600 Single Channel Conax—Net . . . 395.00

Fairchild Model 600A Single Channel Conax—Optical recording. Net Each . . . \$395.00

Fairchild Model 601 Single Channel Conax—For mixing stages; 40 db gain. Net Each . . . \$450.00

LUMITEN SERIES NOISE-FREE ATTENUATORS

LOW IMPEDANCE LUMITENS

Maximum impedance variation of 10% over entire impedance range. Easily installed, with plug-in connector. Fits into existing cutouts for conventional attenuators. **Attenuation Range:** Zero to 70 db, then to infinity; range may be changed anywhere from 25 to 70 db. **Insertion Loss:** 3 db. **Response:** Flat to 100,000 ohms. **Max. Level:** +20 dbm. **Impedance:** 150 or 600 ohms. **Power Required:** 6 volts AC or DC at 300 ma.

Fairchild Model 668—Vertical slide-type attenuator, 600 ohms. Net Each . . . \$59.00

Fairchild Model 668-1—Vertical slide-type attenuator, 150 ohms. Net Each . . . 59.00

Fairchild Model 668ACT—Remote control actuator, 150 or 600 ohms. Net Each . . . 25.00

Fairchild Model 668RAC—Remote control atten. cell, 600 ohms. Net Each . . . 39.00

Fairchild Model 668-1RAC—Remote control atten. cell, 150 ohms. Net Each . . . 39.00

Any of above 668 Lumitens available with Cue position. To order add letter Q to number and \$9.00 to price.

Fairchild Model 669—Rotary type attenuator, 600 ohms. Net Each . . . \$49.00

Fairchild Model 669-1—Rotary type attenuator, 150 ohms. Net Each . . . 49.00

Fairchild Model 669ACT—Remote control actuator, 150 or 600 ohms. Net Each . . . 10.00

Fairchild Model 669RAC—Remote control atten. cell, 600 ohms. Net Each . . . 39.00

Fairchild Model 669-1RAC—Remote control atten. cell, 150 ohms. Net Each . . . 39.00

HIGH IMPEDANCE LUMITENS

Input Impedance: Accepts 50 or 60 to 100K ohms. **Output Impedance:** 10K ohms and up. **Attenuation Range:** Zero to 70 db. **Insertion Loss:** 2 db, no distortion. **Max. Input:** +20 dbm (40 v. peak). **Power Required:** 6 v. AC or DC at 60 ma.

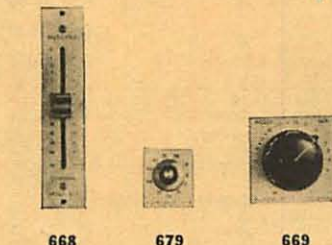
Fairchild Model 678—Vertical slide type attenuator. Net Each . . . \$39.00

Fairchild Model 679—Rotary type attenuator. Net Each . . . 19.95

Fairchild Model 678HACT—Vertical slide remote control actuator. Net Each . . . 25.00

Fairchild Model 679HACT—Rotary type remote control actuator. Net Each . . . 5.95

Fairchild Model 678HAC—Remote atten. cell for 678HACT, 679HACT. Net. 14.00



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Audio level controls require only a beam of light to vary the gain of an audio circuit. Design guarantees noiseless operation and permits inexpensive and versatile remote control circuits, without use of shielded cable. Only 6 volt AC or DC control voltage is required between the actuator and attenuation cell. More than one circuit can be controlled from one remote control device. Available in high or low impedance, with either rotary or vertical slide-type action. Specify impedance when ordering.