



# Technical Bulletin

**FAIRCHILD**  
NEW  
PRODUCTS

NEW PRODUCTS from F A I R C H I L D  
Premiered at the A.E.S. 1965  
Convention

THE BASS-X

MODEL 655

An automatic device that limits high level low frequency information. Low frequency information of high amplitude presents problems in disk recording and broadcasting. By automatic control of high amplitude low frequency information, problems with low frequency overcuts on records are eliminated, permitting higher level, longer sides to be recorded. The automatic, discrete control of low frequency information in broadcasting also allows the station to use its signal strength to the maximum for best area coverage.

BASS-X will accept levels from -35 to +20, and will work into impedances up to 600 ohms; will not introduce distortion; requires 6.3V AC at 60 ma for operation. Dimensions 1 1/2"x7", with metering provided indicating amount of attenuation at 60 cycles.

PRICE . . . . . \$199.00

THE COMPATILIZER

MODEL 654

An automatic system for producing compatible stereo records. Functions include automatic sensing and control of out-of-phase signals at a pre-determined level selected by the engineer. The COMPATILIZER reduces out-of-phase high amplitude low frequency information, thereby controlling excessive vertical excursions that could cause tracking problems. By control of excessive vertical excursions, a stereo recording can be made that will allow tracking with modern stereo or monophonic cartridges. The COMPATILIZER also allows production of longer, higher level sides when desired. The COMPATILIZER does not affect frequencies above 200 cycles. Its area of control action is below 200 cycles with a maximum low reduction of 12 db at 50 cycles possible.

COMPATILIZER control is automatic and active only momentarily on high amplitude, low frequency vertical information. When reduction of low frequency vertical component is not needed, it is not employed because of the automatic sensing function of the unit - therefore, maximum separation is maintained even though a compatible stereo record is also produced.

THE COMPATILIZER is rack mountable, 19" x 1 7/8", and will work in circuits up to 600 ohms. It requires 6.3V at 60 ma for operation.

PRICE . . . . . \$225.00

PROGRAM EQUALIZER

MODEL 664NL

A no loss version of the Model 664 Program Equalizer. The insertion loss of the Model 664 is made up by a transistor amplifier included in the confines of the basic 1 1/2" x 5 1/4" equalizer package. The 664NL will work into impedances up to 600 ohms. It will deliver +18dbm output with distortion of .5% with supply voltage of 24V at 35 ma, or +14 dbm with an 18V supply voltage. Additional gain is available in the amplifier design up to 33 db, and may be obtained by internal resistor change. Unit as delivered is unity gain.

PRICE . . . . . \$199.00

PROFESSIONAL TAPE COMPANDER

MODEL 699

A unique approach to the improvement of signal-to-noise ratio possible in tape recording. By a system of level pre-emphasis during recording, information is stored at a highly compressed level. By a complementary system of dynamic retrieval employing expansion complementary to the compression storage technique, a tape recording with a signal-to-noise ratio improvement of up to 20 db can be achieved with complete and accurate maintenance of the original dynamic values as mixed by the engineer.

The PROFESSIONAL TAPE COMPANDER is 3 1/2" x 19" and employs solid state circuitry. It is a complete package, including metering. Two models are available:

MODEL 699 - allows SIMULTANEOUS compression and expansion for accurate monitoring in the control room.

MODEL 699B - allows EITHER compression or expansion mode to be made selectable, but does not allow simultaneous compression/expansion operation.

Both units possess complete controls for thresholds, compression and expansion, metering and calibration. New, improved semi-conductor compression and expansion circuit allows attack time of two milliseconds.

Besides improving the signal-to-noise ratio of the tape, the system provides an excellent means of reducing distortion by protecting the recording system from overload through the use of the compression system.

PRICE

MODEL 699 . . . . .	\$725.00
MODEL 699B . . . . .	575.00

MASTER TAPE IMPROVEMENT SYSTEM

MODEL 770

A BREAKTHROUGH in tape recording. A new head design, focused gap field, complemented by high amplitude high frequency bias and direct-coupled silicon planar transistor circuitry, now permits signal-to-noise ratios of 72 db to be achieved on three track 1/4" tape. The MASTER TAPE IMPROVEMENT SYSTEM is completely compatible with existing tape transports and allows the owner the fastest, most efficient and, coincidentally, the most economical way to radically improve his studios' tape quality. The system has been termed a "BREAKTHROUGH" by those who have had the opportunity to hear it.

MODELS and PRICE . . .

MODEL 770-01 - 1/4" single track	)	From \$1185.00 to \$1985.00, depending on number of tracks and equipment options.
770-02 - 1/4" two track	)	
770-03A- 1/4" three track	)	
770-03 - 1/2" three track	)	
770-04 - 1/2" four track	)	